**Delta**
**Environmental Consultants, Inc.**

*Solving environment-related business problems worldwide* www.deltaenv.com

*27141 Aliso Creek Road • Suite 270*
*Aliso Viejo, California 92656 USA*

*949.362.3077 800.477.7411*
*Fax 949.362.0290*

April 14, 2005

Mr. John Chiang
CRWQCB-Los Angeles Region
320 West Fourth Street, Suite 200
Los Angeles, California 90013

Sent by UPS

Subject: Quarterly Update Report Submittal

Dear Mr. Chiang:

On behalf of Atlantic Richfield Company, Delta Environmental Consultants, Inc. is submitting the enclosed Quarterly Groundwater Monitoring Report for the First Quarter 2005. The enclosed quarterly report was prepared for the following ARCO Facility:

| ARCO Facility No. | CRWQCB File No. | Location |
|---|---|---|
| 6176 | I-12084 | 1001 East Amar Road, West Covina |

If you have any questions, please contact the undersigned at (949) 860-0212.

Sincerely,

**DELTA ENVIRONMENTAL CONSULTANTS, INC.**

Paul N. McCarter
Project Manager

4-14-05
Date

Enclosure: Atlantic Richfield Company Quarterly Update Report

cc: Mr. Gordon Terhune, Atlantic Richfield Company, La Palma, California
Mr. Curtis Castle, LADPW, Alhambra, California

PNM:pkm(c:\word\qtrly cvr ltrs\6176.doc)

*A member of:* Inogen Environmental Alliance

**ATLANTIC RICHFIELD COMPANY**
**QUARTERLY GROUNDWATER REMEDIATION REPORT**
**FIRST QUARTER 2005**
**APRIL 15, 2005**

| | |
|---|---|
| Facility No.: 6176 Address: | 1001 East Amar Road, West Covina, California |
| Atlantic Richfield Company Environmental Business Manager / Phone No.: | Gordon Terhune / (562) 438-3871 |
| Consulting Co. / Contact Person/Phone No.: | Delta Environmental / Paul McCarter / (949) 860-0212 |
| Primary Agency / Contact Person / Regulatory ID No.: | California Regional Water Quality Control Board-Los Angeles Region (CRWQCB-LA) / John Chiang / File No. I-12084 |
| Other Agencies to Receive Copies: | County of Los Angeles Department of Public Works / Curtis Castle |

**WORK PERFORMED THIS QUARTER (First - 2005):**

1. Submitted Quarterly Groundwater Remediation Report.
2. Conducted quarterly groundwater monitoring and sampling on March 10, 2005. Purge water generated during sampling activities was transported to DeMenno/Kerdoon, in Compton, California for disposal.

**WORK PROPOSED FOR THE NEXT QUARTER (Second - 2005):**

1. Submit Quarterly Groundwater Remediation Report.
2. Conduct quarterly groundwater monitoring and sampling with added analytical requirements of CRWQCB-LA.
3. Continue operation and maintenance of biosparge system.

| | | | | |
|---|---|---|---|---|
| CRWQCB-LA Level: | One | | | |
| Current Phase of Project: | Remediation/Monitoring | | | |
| Frequency of Sampling: | GW-Quarterly; Air-Monthly | | | |
| Frequency of Monitoring: | GW-Quarterly; Air-Weekly | | | |
| Permits for Discharge (No.): | SCAQMD Permit No. F17422 | | | |
| Approx. Depth to Groundwater: | 21.04-33.97 ft | Measured X | Estimated | |
| Groundwater Gradient: | 0.03 ft/ft | (Magnitude) | (Direction) | SW |

**DISCUSSION**

Total petroleum hydrocarbons as gasoline (TPHg) increased somewhat in well GW-5, and decreased in wells BC-1, BC-2, GW-2 and GW-6. Benzene, toluene, ethylbenzene, and total xylene (BTEX) concentrations generally declined in most wells in which they were present. Methyl tertiary butyl ether (MTBE) concentrations decreased in well BC-2. No other significant changes with respect to petroleum hydrocarbon concentrations in groundwater were observed during this quarter.

Natural bioattenuation analyses were performed on groundwater from well BC-1, which is located within the hydrocarbon plume, and on groundwater from well GW-3, which is located upgradient and outside of the hydrocarbon plume. Nitrate and sulfate concentrations are depleted and methane levels are slightly elevated within the plume relative to the area outside of the plume, suggesting that natural attenuation is occurring at the site.

**ATTACHMENTS:**

Summary of Quarterly Groundwater Sampling Results
Site Location Map (Figure 1)
Groundwater Elevation Contour Map (Figure 2)
TPHg and Benzene Groundwater Analyses Map (Figure 3)
MTBE Groundwater Analyses Map (Figure 4)
Historical Groundwater Gauging Data (Table 1)
Historical Groundwater Analytical Results (Table 2)
Natural Bioattenuation Remediation Analytical Results (Table 3)
Sampling Information Sheets (Attachment A)
Laboratory Report and Chain-of-Custody Documentation (Attachment B)
Biosparge System Operation Summary (Attachment C)
Disposal Documentation (Attachment D)

**SUMMARY OF QUARTERLY GROUNDWATER SAMPLING RESULTS**
**ARCO FACILITY NO. 6176**
**WEST COVINA, CALIFORNIA**

Enclosed please find the data collected by Doulos Environmental Company during quarterly groundwater sampling activities at ARCO Facility No. 6176, located in West Covina, California. The sampling activities included the collection of groundwater samples and static water level measurements. This report contains groundwater analyses maps that document the concentrations of total petroleum hydrocarbon as gasoline (TPHg), benzene, and MTBE. A Delta Environmental Consultants, Inc. staff member under the supervision of a California Registered Civil Engineer or California Registered Geologist performed the data evaluation.

The recommendations contained in this report represent Delta's professional opinions based upon the currently available information and are determined in accordance with currently acceptable professional standards. This report is based upon a specific scope of work requested by the client. The Contract between Delta and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Delta's Client and anyone else specifically listed on this report. Delta will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Delta makes no express or implied warranty as to the contents of this report.

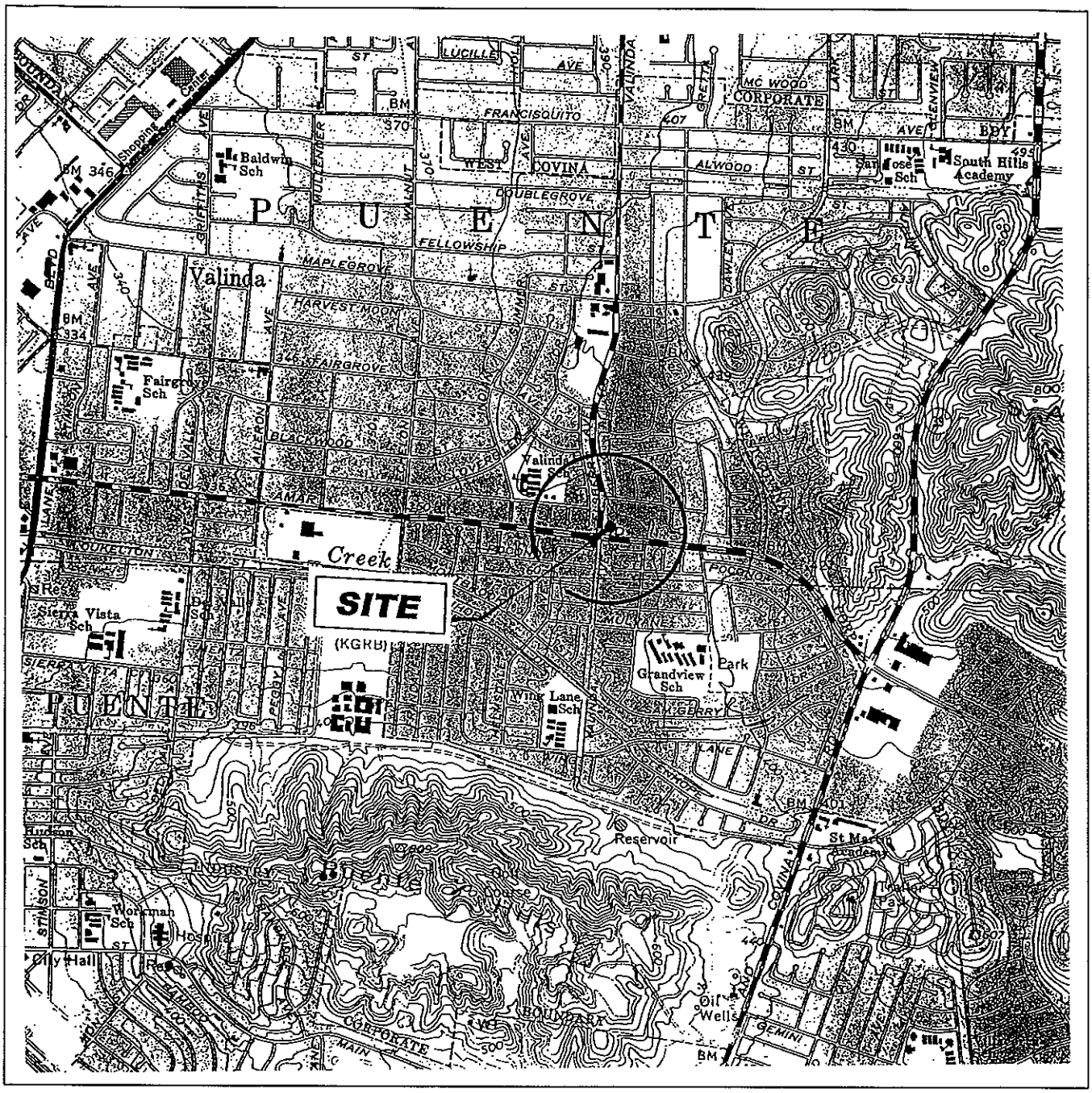
If you have any questions or comments concerning this correspondence, please contact Paul McCarter at (949) 860-0212

Report signed by,
**DELTA ENVIRONMENTAL CONSULTANTS, INC.**

Paul N. McCarter. P.G
California Professional Geologist No. 5243

4-14-05
Date

PROFESSIONAL GEOLOGIST
PAUL N. McCARTER
No.5243
STATE OF CALIFORNIA




GENERAL NOTES:
BASE MAP FROM U.S.G.S.
BALDWIN PARK, CA. QUADRANGLE
7.5 MINUTE TOPOGRAPHIC MAP
1966
PHOTOREVISED 1981

QUADRANGLE LOCATION

N

0 2000 FT

SCALE: 1 : 24,000

FIGURE 1
SITE LOCATION MAP
ARCO FACILITY NO. 6176
1001 EAST AMAR ROAD
WEST COVINA, CA.

| | | |
|---|---|---|
| PROJECT NO. AM00-656 | | DRAWN BY |
| FILE NO. 8-659-01 | | PREPARED BY N. SAADEH |
| DATE 28 MAY 02 | REV. | REVIEWED BY |

Delta Environmental Consultants, Inc.

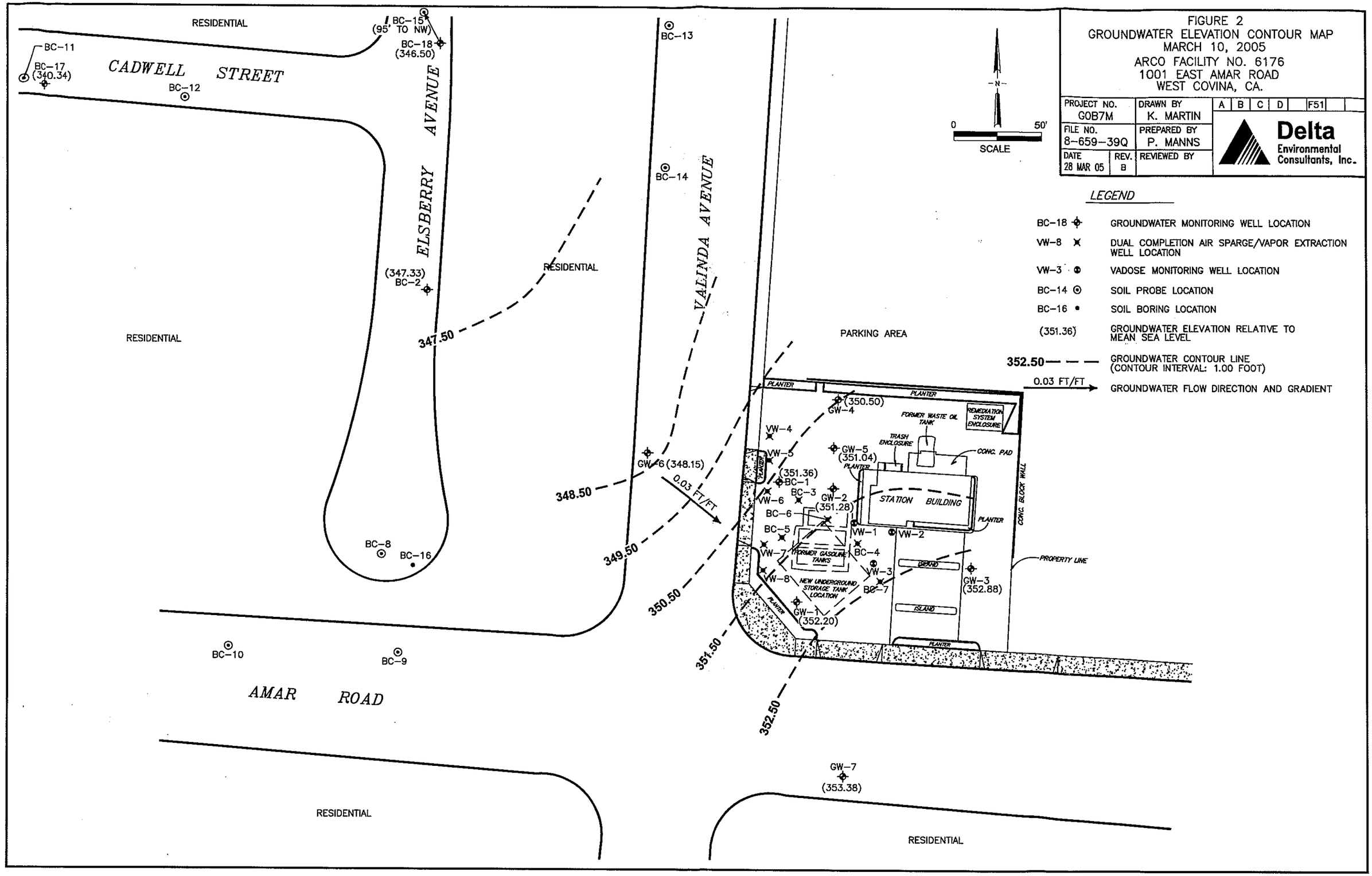


FIGURE 2
GROUNDWATER ELEVATION CONTOUR MAP
MARCH 10, 2005
ARCO FACILITY NO. 6176
1001 EAST AMAR ROAD
WEST COVINA, CA.
PROJECT NO. G0B7M
DRAWN BY K. MARTIN
FILE NO. 8-659-39Q
PREPARED BY P. MANNS
DATE 28 MAR 05
REV. B
REVIEWED BY
A B C D F51
Delta Environmental Consultants, Inc.
LEGEND
BC-18 GROUNDWATER MONITORING WELL LOCATION
VW-8 DUAL COMPLETION AIR SPARGE/VAPOR EXTRACTION WELL LOCATION
VW-3 VADOSE MONITORING WELL LOCATION
BC-14 SOIL PROBE LOCATION
BC-16 SOIL BORING LOCATION
(351.36) GROUNDWATER ELEVATION RELATIVE TO MEAN SEA LEVEL
352.50 GROUNDWATER CONTOUR LINE (CONTOUR INTERVAL: 1.00 FOOT)
0.03 FT/FT GROUNDWATER FLOW DIRECTION AND GRADIENT
N
0 50'
SCALE
RESIDENTIAL
CADWELL STREET
ELSBERRY AVENUE
VALINDA AVENUE
AMAR ROAD
PARKING AREA
STATION BUILDING
FORMER WASTE OIL TANK
REMEDIATION SYSTEM ENCLOSURE
TRASH ENCLOSURE
CONC. PAD
CONC. BLOCK WALL
PROPERTY LINE
FORMER GASOLINE TANKS
NEW UNDERGROUND STORAGE TANK LOCATION
PLANTER
ISLAND
BC-11 (340.34)
BC-12
BC-13
BC-14
BC-15 (95' TO NW)
BC-18 (346.50)
(347.33) BC-2
BC-8
BC-16
BC-10
BC-9
GW-6 (348.15)
GW-4 (350.50)
GW-5 (351.04)
GW-2 (351.28)
GW-1 (352.20)
GW-3 (352.88)
GW-7 (353.38)
(351.36) BC-1
BC-3
BC-6
BC-5
BC-4
BC-7
VW-1
VW-2
VW-3
VW-4
VW-5
VW-6
VW-7
VW-8
347.50
348.50
349.50
350.50
351.50
352.50
0.03 FT/FT

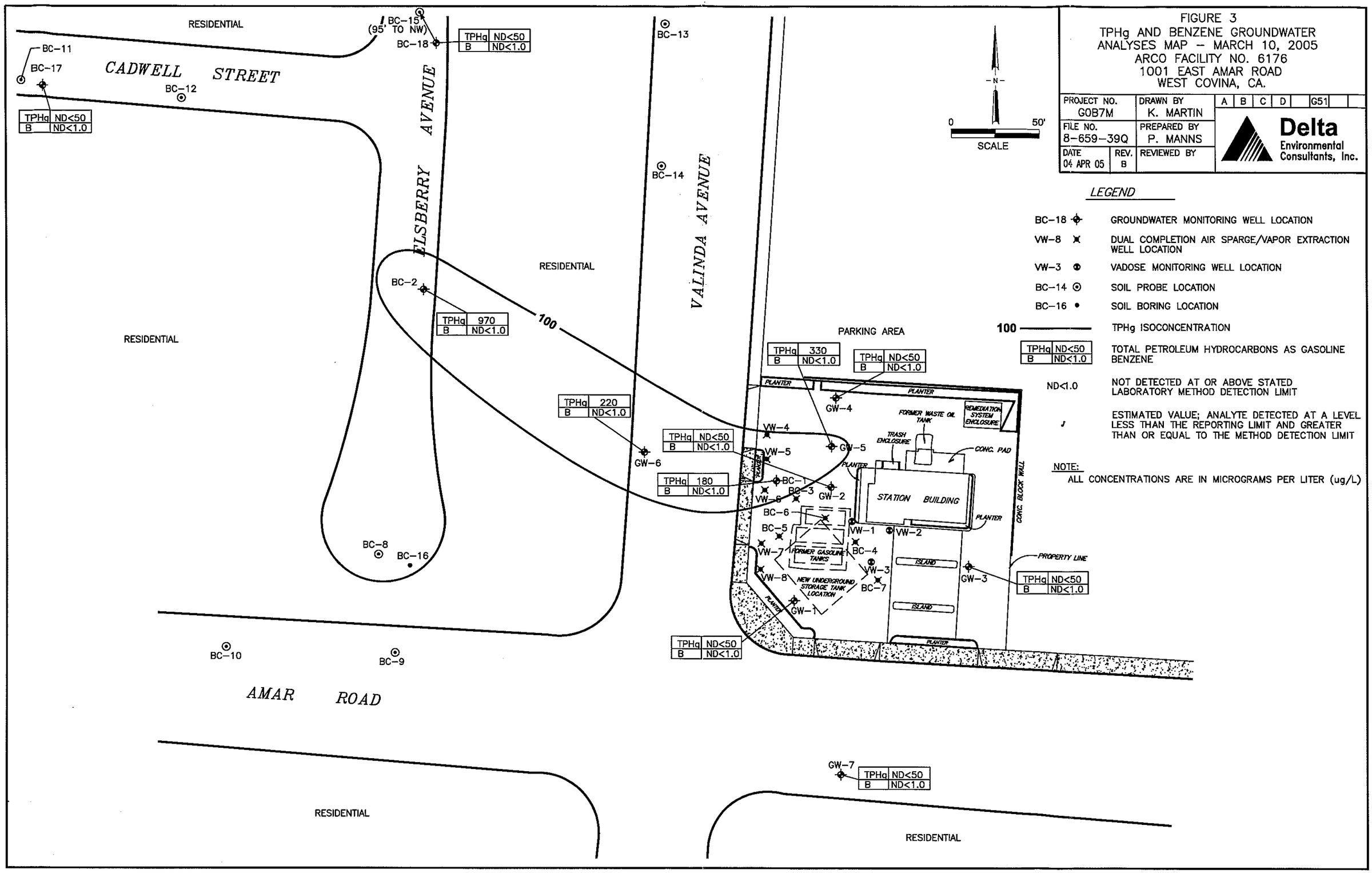



FIGURE 3
TPHg AND BENZENE GROUNDWATER ANALYSES MAP – MARCH 10, 2005
ARCO FACILITY NO. 6176
1001 EAST AMAR ROAD
WEST COVINA, CA.

| | | |
|---|---|---|
| PROJECT NO. G0B7M | DRAWN BY K. MARTIN | A B C D G51 |
| FILE NO. 8-659-39Q | PREPARED BY P. MANNS | Delta Environmental Consultants, Inc. |
| DATE 04 APR 05 / REV. B | REVIEWED BY | |

LEGEND

| | |
|---|---|
| BC-18 | GROUNDWATER MONITORING WELL LOCATION |
| VW-8 | DUAL COMPLETION AIR SPARGE/VAPOR EXTRACTION WELL LOCATION |
| VW-3 | VADOSE MONITORING WELL LOCATION |
| BC-14 | SOIL PROBE LOCATION |
| BC-16 | SOIL BORING LOCATION |
| 100 | TPHg ISOCONCENTRATION |
| TPHg ND<50 / B ND<1.0 | TOTAL PETROLEUM HYDROCARBONS AS GASOLINE / BENZENE |
| ND<1.0 | NOT DETECTED AT OR ABOVE STATED LABORATORY METHOD DETECTION LIMIT |
| J | ESTIMATED VALUE; ANALYTE DETECTED AT A LEVEL LESS THAN THE REPORTING LIMIT AND GREATER THAN OR EQUAL TO THE METHOD DETECTION LIMIT |

NOTE:
ALL CONCENTRATIONS ARE IN MICROGRAMS PER LITER (ug/L)

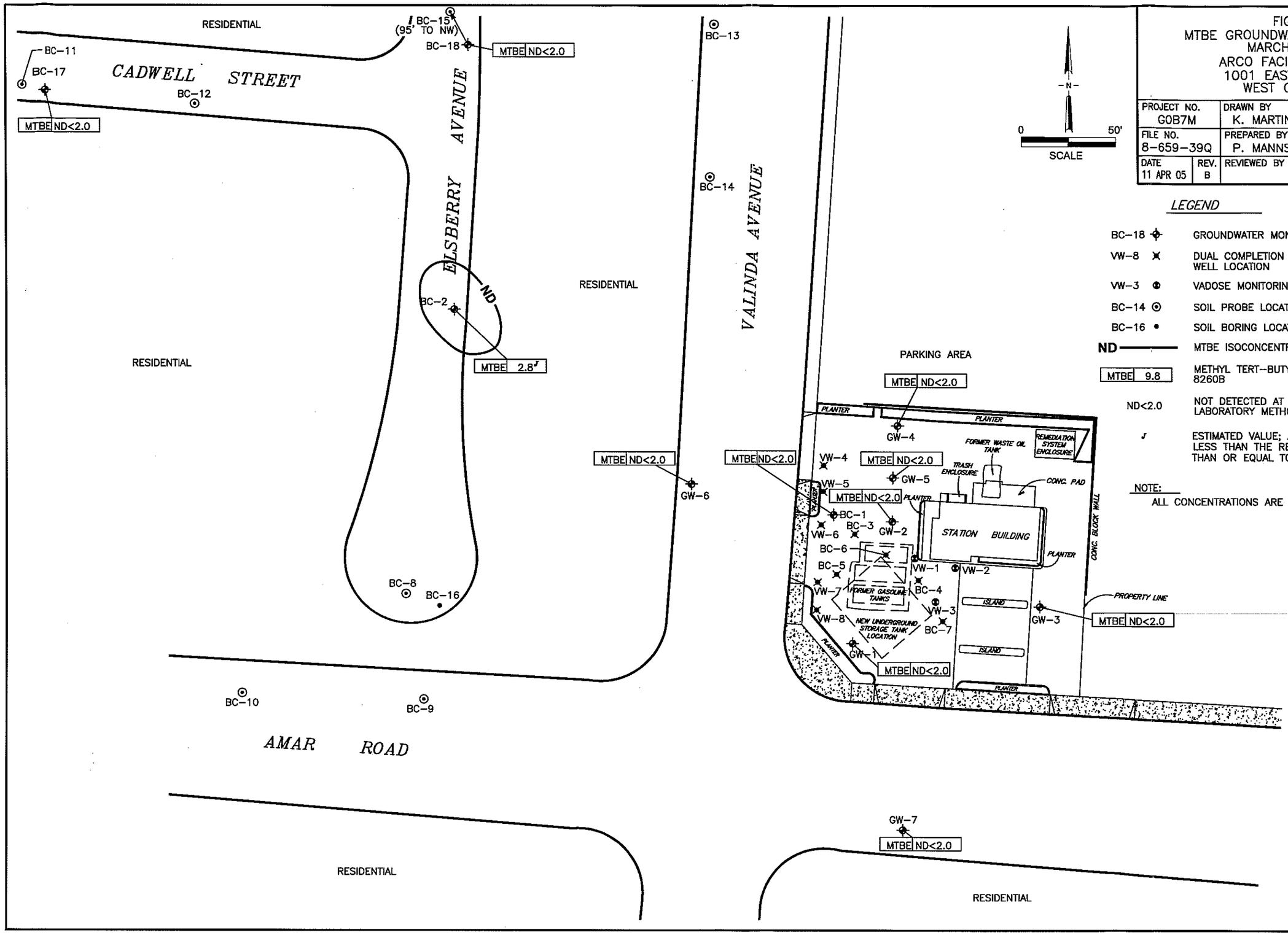



FIGURE 4
MTBE GROUNDWATER ANALYSES MAP
MARCH 10, 2005
ARCO FACILITY NO. 6176
1001 EAST AMAR ROAD
WEST COVINA, CA.

| | | | |
|---|---|---|---|
| PROJECT NO. G0B7M | DRAWN BY K. MARTIN | A B C D H51 | Delta Environmental Consultants, Inc. |
| FILE NO. 8-659-39Q | PREPARED BY P. MANNS | | |
| DATE 11 APR 05 / REV. B | REVIEWED BY | | |

## LEGEND

| | |
|---|---|
| BC-18 | GROUNDWATER MONITORING WELL LOCATION |
| VW-8 | DUAL COMPLETION AIR SPARGE/VAPOR EXTRACTION WELL LOCATION |
| VW-3 | VADOSE MONITORING WELL LOCATION |
| BC-14 | SOIL PROBE LOCATION |
| BC-16 | SOIL BORING LOCATION |
| ND | MTBE ISOCONCENTRATION CONTOUR |
| MTBE 9.8 | METHYL TERT-BUTYL ETHER BY EPA METHOD 8260B |
| ND<2.0 | NOT DETECTED AT OR ABOVE STATED LABORATORY METHOD DETECTION LIMIT |
| J | ESTIMATED VALUE; ANALYTE DETECTED AT A LEVEL LESS THAN THE REPORTING LIMIT AND GREATER THAN OR EQUAL TO THE METHOD DETECTION LIMIT |

NOTE:
ALL CONCENTRATIONS ARE IN MICROGRAMS PER LITER (ug/L)

# TABLE 1
## HISTORICAL GROUNDWATER GAUGING DATA
### ARCO Facility No. 6176
### 1001 E. Amar Rd.
### West Covina, CA

| Well | Date Measured | TOC Elevation (feet msl) | Depth to LPH (feet) | Depth to Water (feet) | LPH Thickness (feet) | Water Elevation (feet msl) | Comments |
|---|---|---|---|---|---|---|---|
| BC-1 | 3/18/1996 | 374.21 | NA | 23.58 | NA | 350.63 | |
| BC-1 | 6/6/1996 | 374.21 | NA | 23.41 | NA | 350.80 | |
| BC-1 | 9/25/1996 | 374.21 | NA | 24.06 | NA | 350.15 | |
| BC-1 | 12/13/1996 | 374.21 | NA | 24.55 | NA | 349.66 | |
| BC-1 | 2/27/1997 | 374.21 | NA | 23.30 | NA | 350.91 | |
| BC-1 | 5/19/1997 | 374.21 | NA | 23.32 | NA | 350.89 | |
| BC-1 | 7/28/1997 | 374.21 | NA | 23.69 | NA | 350.52 | |
| BC-1 | 10/27/1997 | 374.21 | NA | 24.14 | NA | 350.07 | |
| BC-1 | 3/18/1998 | 374.21 | NA | 22.33 | NA | 351.88 | |
| BC-1 | 6/26/1998 | 374.21 | NA | 21.30 | NA | 352.91 | |
| BC-1 | 8/27/1998 | 374.21 | NA | 21.45 | NA | 352.76 | |
| BC-1 | 12/17/1998 | 374.21 | NA | 22.82 | NA | 351.39 | |
| BC-1 | 3/23/1999 | 374.21 | NA | 22.42 | NA | 351.79 | |
| BC-1 | 5/25/1999 | 374.21 | NA | 22.58 | NA | 351.63 | |
| BC-1 | 8/24/1999 | 374.21 | NA | 23.20 | NA | 351.01 | |
| BC-1 | 12/9/1999 | 374.21 | NA | 23.95 | NA | 350.26 | |
| BC-1 | 2/22/2000 | 374.21 | NA | 24.46 | NA | 349.75 | |
| BC-1 | 5/22/2000 | 374.74 | NA | 23.50 | NA | 351.24 | |
| BC-1 | 8/24/2000 | 374.74 | NA | 24.18 | NA | 350.56 | |
| BC-1 | 11/14/2000 | 374.74 | NA | 24.75 | NA | 349.99 | |
| BC-1 | 2/12/2001 | 374.74 | NA | 25.23 | NA | 349.51 | |
| BC-1 | 5/30/2001 | 374.74 | NA | 24.36 | NA | 350.38 | |
| BC-1 | 8/14/2001 | 374.74 | NA | 24.67 | NA | 350.07 | |
| BC-1 | 11/14/2001 | 374.74 | NA | 25.26 | NA | 349.48 | |
| BC-1 | 2/13/2002 | 374.74 | NA | 24.90 | NA | 349.84 | |
| BC-1 | 5/8/2002 | 374.74 | NA | 26.24 | NA | 348.50 | |
| BC-1 | 8/13/2002 | 374.74 | NA | 26.68 | NA | 348.06 | |
| BC-1 | 10/28/2002 | 374.74 | NA | 27.33 | NA | 347.41 | |
| BC-1 | 1/22/2003 | 374.74 | NA | 27.65 | NA | 347.09 | |
| BC-1 | 4/14/2003 | 374.74 | NA | 26.12 | NA | 348.62 | |
| BC-1 | 7/9/2003 | 374.74 | NA | 25.97 | NA | 348.77 | |
| BC-1 | 10/2/2003 | 374.74 | NA | 26.25 | NA | 348.49 | |
| BC-1 | 1/6/2004 | 374.74 | NA | 27.29 | NA | 347.45 | |
| BC-1 | 5/5/2004 | 374.74 | NA | 27.06 | NA | 347.68 | |
| BC-1 | 9/2/2004 | 374.74 | NA | 28.38 | NA | 346.36 | |
| BC-1 | 12/9/2004 | 374.74 | NA | 27.36 | NA | 347.38 | |
| BC-1 | 3/10/2005 | 374.74 | NA | 23.38 | NA | 351.36 | |
| BC-2 | 3/18/1996 | 372.20 | NA | 24.80 | NA | 347.40 | |
| BC-2 | 6/6/1996 | 372.20 | NA | 24.76 | NA | 347.44 | |
| BC-2 | 9/25/1996 | 372.20 | NA | 25.01 | NA | 347.19 | |
| BC-2 | 12/13/1996 | 372.20 | NA | 25.65 | NA | 346.55 | |
| BC-2 | 2/27/1997 | 372.20 | NA | 24.30 | NA | 347.90 | |
| BC-2 | 5/19/1997 | 372.20 | NA | 24.16 | NA | 348.04 | |
| BC-2 | 7/28/1997 | 372.20 | NA | 24.33 | NA | 347.87 | |
| BC-2 | 10/27/1997 | 372.20 | NA | 24.95 | NA | 347.25 | |
| BC-2 | 3/18/1998 | 372.20 | NA | 23.59 | NA | 348.61 | |
| BC-2 | 6/26/1998 | 372.20 | NA | 22.32 | NA | 349.88 | |
| BC-2 | 8/27/1998 | 372.20 | NA | 22.32 | NA | 349.88 | |
| BC-2 | 12/17/1998 | 372.20 | NA | 23.79 | NA | 348.41 | |
| BC-2 | 3/23/1999 | 372.20 | NA | 23.26 | NA | 348.94 | |

# TABLE 1
## HISTORICAL GROUNDWATER GAUGING DATA
### ARCO Facility No. 6176
### 1001 E. Amar Rd.
### West Covina, CA

| Well | Date Measured | TOC Elevation (feet msl) | Depth to LPH (feet) | Depth to Water (feet) | LPH Thickness (feet) | Water Elevation (feet msl) | Comments |
|---|---|---|---|---|---|---|---|
| BC-2 | 5/25/1999 | 372.20 | NA | 23.45 | NA | 348.75 | |
| BC-2 | 8/24/1999 | 372.20 | NA | 24.30 | NA | 347.90 | |
| BC-2 | 12/9/1999 | 372.20 | NA | 24.64 | NA | 347.56 | |
| BC-2 | 2/22/2000 | 372.20 | NA | 25.15 | NA | 347.05 | |
| BC-2 | 5/22/2000 | 372.46 | NA | 24.44 | NA | 348.02 | |
| BC-2 | 8/24/2000 | 372.46 | NA | 25.10 | NA | 347.36 | |
| BC-2 | 11/14/2000 | 372.46 | NA | 25.51 | NA | 346.95 | |
| BC-2 | 2/12/2001 | 372.46 | NA | 25.96 | NA | 346.50 | |
| BC-2 | 5/30/2001 | 372.46 | NA | 25.08 | NA | 347.38 | |
| BC-2 | 8/14/2001 | 372.46 | NA | 25.44 | NA | 347.02 | |
| BC-2 | 11/14/2001 | 372.46 | NA | 26.03 | NA | 346.43 | |
| BC-2 | 2/13/2002 | 372.46 | NA | 26.48 | NA | 345.98 | |
| BC-2 | 5/8/2002 | 372.46 | NA | 26.92 | NA | 345.54 | |
| BC-2 | 8/13/2002 | 372.46 | NA | 27.45 | NA | 345.01 | |
| BC-2 | 10/28/2002 | 372.46 | NA | 28.02 | NA | 344.44 | |
| BC-2 | 1/22/2003 | 372.46 | NA | 29.22 | NA | 343.24 | |
| BC-2 | 4/14/2003 | 372.46 | NA | 27.72 | NA | 344.74 | |
| BC-2 | 7/9/2003 | 372.46 | NA | 27.45 | NA | 345.01 | |
| BC-2 | 10/2/2003 | 372.46 | NA | 27.71 | NA | 344.75 | |
| BC-2 | 1/6/2004 | 372.46 | NA | 28.13 | NA | 344.33 | |
| BC-2 | 5/5/2004 | 372.46 | NA | 27.99 | NA | 344.47 | |
| BC-2 | 9/2/2004 | 372.46 | NA | 29.24 | NA | 343.22 | |
| BC-2 | 12/9/2004 | 372.46 | NA | 28.47 | NA | 343.99 | |
| BC-2 | 3/10/2005 | 372.46 | NA | 25.13 | NA | 347.33 | |
| BC-17 | 9/25/1996 | 374.08 | NA | 31.31 | NA | 342.77 | |
| BC-17 | 12/13/1996 | 374.08 | NA | 31.68 | NA | 342.40 | |
| BC-17 | 2/27/1997 | 374.08 | NA | 30.78 | NA | 343.30 | |
| BC-17 | 5/19/1997 | 374.08 | NA | 30.53 | NA | 343.55 | |
| BC-17 | 7/28/1997 | 374.08 | NA | 30.71 | NA | 343.37 | |
| BC-17 | 10/27/1997 | 374.08 | NA | 31.16 | NA | 342.92 | |
| BC-17 | 3/18/1998 | 374.08 | NA | 30.19 | NA | 343.89 | |
| BC-17 | 6/26/1998 | 374.08 | NA | 29.84 | NA | 344.24 | |
| BC-17 | 8/27/1998 | 374.08 | NA | 28.73 | NA | 345.35 | |
| BC-17 | 12/17/1998 | 374.08 | NA | 30.03 | NA | 344.05 | |
| BC-17 | 3/23/1999 | 374.08 | NA | 29.32 | NA | 344.76 | |
| BC-17 | 5/25/1999 | 374.08 | NA | 29.53 | NA | 344.55 | |
| BC-17 | 8/24/1999 | 374.08 | NA | 30.00 | NA | 344.08 | |
| BC-17 | 12/9/1999 | 374.08 | NA | 29.60 | NA | 344.48 | |
| BC-17 | 2/22/2000 | 374.08 | NA | 31.10 | NA | 342.98 | |
| BC-17 | 5/22/2000 | 374.31 | NA | 30.61 | NA | 343.70 | |
| BC-17 | 8/24/2000 | 374.31 | NA | 31.12 | NA | 343.19 | |
| BC-17 | 11/14/2000 | 374.31 | NA | 31.51 | NA | 342.80 | |
| BC-17 | 2/12/2001 | 374.31 | NA | 31.94 | NA | 342.37 | |
| BC-17 | 5/30/2001 | 374.31 | NA | 31.26 | NA | 343.05 | |
| BC-17 | 8/14/2001 | 374.31 | NA | 31.60 | NA | 342.71 | |
| BC-17 | 11/14/2001 | 374.31 | NA | 32.08 | NA | 342.23 | |
| BC-17 | 2/13/2002 | 374.31 | NA | 32.51 | NA | 341.80 | |
| BC-17 | 5/8/2002 | 374.31 | NA | 32.95 | NA | 341.36 | |
| BC-17 | 8/13/2002 | 374.31 | NA | 33.41 | NA | 340.90 | |
| BC-17 | 10/28/2002 | 374.31 | NA | 33.98 | NA | 340.33 | |

# TABLE 1
## HISTORICAL GROUNDWATER GAUGING DATA
## ARCO Facility No. 6176
## 1001 E. Amar Rd.
## West Covina, CA

| Well | Date Measured | TOC Elevation (feet msl) | Depth to LPH (feet) | Depth to Water (feet) | LPH Thickness (feet) | Water Elevation (feet msl) | Comments |
|---|---|---|---|---|---|---|---|
| BC-17 | 1/22/2003 | 374.31 | NA | NA | NA | NA | Well dry |
| BC-17 | 4/14/2003 | 374.31 | NA | 34.08 | NA | 340.23 | |
| BC-17 | 7/9/2003 | 374.31 | NA | 33.85 | NA | 340.46 | |
| BC-17 | 10/2/2003 | 374.31 | NA | 34.05 | NA | 340.26 | |
| BC-17 | 1/6/2004 | 374.31 | NA | 34.37 | NA | 339.94 | |
| BC-17 | 5/5/2004 | 374.31 | NA | 34.37 | NA | 339.94 | |
| BC-17 | 9/2/2004 | 374.31 | NA | NA | NA | NA | Dry |
| BC-17 | 12/9/2004 | 374.31 | NA | 34.56 | NA | 339.75 | |
| BC-17 | 3/10/2005 | 374.31 | NA | 33.97 | NA | 340.34 | |
| BC-18 | 9/25/1996 | 373.07 | NA | 26.39 | NA | 346.68 | |
| BC-18 | 12/13/1996 | 373.07 | NA | 26.90 | NA | 346.17 | |
| BC-18 | 2/27/1997 | 373.07 | NA | 25.88 | NA | 347.19 | |
| BC-18 | 5/19/1997 | 373.07 | NA | 25.76 | NA | 347.31 | |
| BC-18 | 7/28/1997 | 373.07 | NA | 25.95 | NA | 347.12 | |
| BC-18 | 10/27/1997 | 373.07 | NA | 26.44 | NA | 346.63 | |
| BC-18 | 3/18/1998 | 373.07 | NA | 25.25 | NA | 347.82 | |
| BC-18 | 6/26/1998 | 373.07 | NA | 23.87 | NA | 349.20 | |
| BC-18 | 8/27/1998 | 373.07 | NA | 23.82 | NA | 349.25 | |
| BC-18 | 12/17/1998 | 373.07 | NA | 25.22 | NA | 347.85 | |
| BC-18 | 3/23/1999 | 373.07 | NA | 24.75 | NA | 348.32 | |
| BC-18 | 5/25/1999 | 373.07 | NA | 24.94 | NA | 348.13 | |
| BC-18 | 8/24/1999 | 373.07 | NA | 25.45 | NA | 347.62 | |
| BC-18 | 12/9/1999 | 373.07 | NA | 26.09 | NA | 346.98 | |
| BC-18 | 2/22/2000 | 373.07 | NA | 26.60 | NA | 346.47 | |
| BC-18 | 5/22/2000 | 373.31 | NA | 25.95 | NA | 347.36 | |
| BC-18 | 8/24/2000 | 373.31 | NA | 26.55 | NA | 346.76 | |
| BC-18 | 11/14/2000 | 373.31 | NA | 26.95 | NA | 346.36 | |
| BC-18 | 2/12/2001 | 373.31 | NA | 27.41 | NA | 345.90 | |
| BC-18 | 5/30/2001 | 373.31 | NA | 26.58 | NA | 346.73 | |
| BC-18 | 8/14/2001 | 373.31 | NA | 26.91 | NA | 346.40 | |
| BC-18 | 11/14/2001 | 373.31 | NA | 27.48 | NA | 345.83 | |
| BC-18 | 2/13/2002 | 373.31 | NA | 27.95 | NA | 345.36 | |
| BC-18 | 5/8/2002 | 373.31 | NA | 28.38 | NA | 344.93 | |
| BC-18 | 8/13/2002 | 373.31 | NA | 28.87 | NA | 344.44 | |
| BC-18 | 10/28/2002 | NA | NA | NA | NA | NA | Could not locate well |
| BC-18 | 1/22/2003 | NA | NA | NA | NA | NA | Could not locate well |
| BC-18 | 4/14/2003 | NA | NA | NA | NA | NA | Could not locate well |
| BC-18 | 7/9/2003 | NA | NA | NA | NA | NA | Could not locate well |
| BC-18 | 10/2/2003 | NA | NA | NA | NA | NA | Could not locate well. Well located & repaired on 10/7/03. |
| BC-18 | 1/6/2004 | NA | NA | 29.54 | NA | NA | |
| BC-18 | 5/5/2004 | NA | NA | 29.43 | NA | NA | |
| BC-18 | 9/2/2004 | NA | NA | 30.63 | NA | NA | |
| BC-18 | 12/9/2004 | NA | NA | 29.72 | NA | NA | |
| BC-18 | 3/10/2005 | 373.31 | NA | 26.81 | NA | 346.50 | |
| GW-1 | 3/18/1996 | 374.24 | NA | 22.80 | NA | 351.44 | |
| GW-1 | 6/6/1996 | 374.24 | NA | 22.70 | NA | 351.54 | |
| GW-1 | 9/25/1996 | 374.24 | NA | 23.35 | NA | 350.89 | |
| GW-1 | 12/13/1996 | 374.24 | NA | 23.82 | NA | 350.42 | |
| GW-1 | 2/27/1997 | 374.24 | NA | 21.75 | NA | 352.49 | |
| GW-1 | 5/19/1997 | 374.24 | NA | 21.69 | NA | 352.55 | |

# TABLE 1
## HISTORICAL GROUNDWATER GAUGING DATA
## ARCO Facility No. 6176
## 1001 E. Amar Rd.
## West Covina, CA

| Well | Date Measured | TOC Elevation (feet msl) | Depth to LPH (feet) | Depth to Water (feet) | LPH Thickness (feet) | Water Elevation (feet msl) | Comments |
|---|---|---|---|---|---|---|---|
| GW-1 | 7/28/1997 | 374.24 | NA | 21.89 | NA | 352.35 | |
| GW-1 | 10/27/1997 | 374.24 | NA | 22.95 | NA | 351.29 | |
| GW-1 | 3/18/1998 | 374.24 | NA | 20.52 | NA | 353.72 | |
| GW-1 | 6/26/1998 | 374.24 | NA | 19.60 | NA | 354.64 | |
| GW-1 | 8/27/1998 | 374.24 | NA | 19.98 | NA | 354.26 | |
| GW-1 | 12/17/1998 | 374.24 | NA | 21.10 | NA | 353.14 | |
| GW-1 | 3/23/1999 | 374.24 | NA | 21.13 | NA | 353.11 | |
| GW-1 | 5/25/1999 | 374.24 | NA | 21.25 | NA | 352.99 | |
| GW-1 | 8/24/1999 | 374.24 | NA | 21.89 | NA | 352.35 | |
| GW-1 | 12/9/1999 | 374.24 | NA | 22.65 | NA | 351.59 | |
| GW-1 | 2/22/2000 | 374.24 | NA | 23.11 | NA | 351.13 | |
| GW-1 | 5/22/2000 | 373.84 | NA | 22.16 | NA | 351.68 | |
| GW-1 | 8/24/2000 | 373.84 | NA | 22.88 | NA | 350.96 | |
| GW-1 | 11/14/2000 | 373.84 | NA | 23.42 | NA | 350.42 | |
| GW-1 | 2/12/2001 | 373.84 | NA | 23.90 | NA | 349.94 | |
| GW-1 | 5/30/2001 | 373.84 | NA | 22.78 | NA | 351.06 | |
| GW-1 | 8/14/2001 | 373.84 | NA | 23.22 | NA | 350.62 | |
| GW-1 | 11/14/2001 | 373.84 | NA | 23.89 | NA | 349.95 | |
| GW-1 | 2/13/2002 | 373.84 | NA | 24.38 | NA | 349.46 | |
| GW-1 | 5/8/2002 | 373.84 | NA | 24.87 | NA | 348.97 | |
| GW-1 | 8/13/2002 | 373.84 | NA | 24.99 | NA | 348.85 | |
| GW-1 | 10/28/2002 | 373.84 | NA | 25.97 | NA | 347.87 | |
| GW-1 | 1/22/2003 | 373.84 | NA | 27.03 | NA | 346.81 | |
| GW-1 | 4/14/2003 | 373.84 | NA | 24.43 | NA | 349.41 | |
| GW-1 | 7/9/2003 | 373.84 | NA | 23.87 | NA | 349.97 | |
| GW-1 | 10/2/2003 | 373.84 | NA | 25.29 | NA | 348.55 | |
| GW-1 | 1/6/2004 | 373.84 | NA | 25.81 | NA | 348.03 | |
| GW-1 | 5/5/2004 | 373.84 | NA | 25.59 | NA | 348.25 | |
| GW-1 | 9/2/2004 | 373.84 | NA | 26.18 | NA | 347.66 | |
| GW-1 | 12/9/2004 | 373.84 | NA | 25.81 | NA | 348.03 | |
| GW-1 | 3/10/2005 | 373.84 | NA | 21.64 | NA | 352.20 | |
| GW-2 | 3/18/1996 | 375.18 | NA | 24.20 | NA | 350.98 | |
| GW-2 | 6/6/1996 | 375.18 | NA | 24.02 | NA | 351.16 | |
| GW-2 | 9/25/1996 | 375.18 | NA | 24.61 | NA | 350.57 | |
| GW-2 | 12/13/1996 | 375.18 | NA | 25.15 | NA | 350.03 | |
| GW-2 | 2/27/1997 | 375.18 | NA | 23.62 | NA | 351.56 | |
| GW-2 | 5/19/1997 | 375.18 | NA | 23.65 | NA | 351.53 | |
| GW-2 | 7/28/1997 | 375.18 | NA | 23.96 | NA | 351.22 | |
| GW-2 | 10/27/1997 | 375.18 | NA | 24.10 | NA | 351.08 | |
| GW-2 | 3/18/1998 | 375.18 | NA | 22.57 | NA | 352.61 | |
| GW-2 | 6/26/1998 | 375.18 | NA | 21.16 | NA | 354.02 | |
| GW-2 | 8/27/1998 | 375.18 | NA | 21.81 | NA | 353.37 | |
| GW-2 | 12/17/1998 | 375.18 | NA | 23.18 | NA | 352.00 | |
| GW-2 | 3/23/1999 | 375.18 | NA | 22.86 | NA | 352.32 | |
| GW-2 | 5/25/1999 | 375.18 | NA | 22.97 | NA | 352.21 | |
| GW-2 | 8/24/1999 | 375.18 | NA | 23.65 | NA | 351.53 | |
| GW-2 | 12/9/1999 | 375.18 | NA | 24.38 | NA | 350.80 | |
| GW-2 | 2/22/2000 | 375.18 | NA | 24.86 | NA | 350.32 | |
| GW-2 | 5/22/2000 | 375.22 | NA | 23.86 | NA | 351.36 | |
| GW-2 | 8/24/2000 | 375.22 | NA | 24.49 | NA | 350.73 | |

# TABLE 1
## HISTORICAL GROUNDWATER GAUGING DATA
### ARCO Facility No. 6176
### 1001 E. Amar Rd.
### West Covina, CA

| Well | Date Measured | TOC Elevation (feet msl) | Depth to LPH (feet) | Depth to Water (feet) | LPH Thickness (feet) | Water Elevation (feet msl) | Comments |
|---|---|---|---|---|---|---|---|
| GW-2 | 11/14/2000 | 375.22 | NA | 25.16 | NA | 350.06 | |
| GW-2 | 2/12/2001 | 375.22 | NA | 25.63 | NA | 349.59 | |
| GW-2 | 5/30/2001 | 375.22 | NA | 24.49 | NA | 350.73 | |
| GW-2 | 8/14/2001 | 375.22 | NA | 25.00 | NA | 350.22 | |
| GW-2 | 11/14/2001 | 375.22 | NA | 25.65 | NA | 349.57 | |
| GW-2 | 2/13/2002 | 375.22 | NA | 25.71 | NA | 349.51 | |
| GW-2 | 5/8/2002 | 375.22 | NA | 26.61 | NA | 348.61 | |
| GW-2 | 8/13/2002 | 375.22 | NA | 26.96 | NA | 348.26 | |
| GW-2 | 10/28/2002 | 375.22 | NA | 27.71 | NA | 347.51 | |
| GW-2 | 1/22/2003 | 375.22 | NA | 28.94 | NA | 346.28 | |
| GW-2 | 4/14/2003 | 375.22 | NA | 26.38 | NA | 348.84 | |
| GW-2 | 7/9/2003 | 375.22 | NA | 26.50 | NA | 348.72 | |
| GW-2 | 10/2/2003 | 375.22 | NA | 26.92 | NA | 348.30 | |
| GW-2 | 1/6/2004 | 375.22 | NA | 27.60 | NA | 347.62 | |
| GW-2 | 5/5/2004 | 375.22 | NA | 27.39 | NA | 347.83 | |
| GW-2 | 9/2/2004 | 375.22 | NA | 27.96 | NA | 347.26 | |
| GW-2 | 12/9/2004 | 375.22 | NA | 27.53 | NA | 347.69 | |
| GW-2 | 3/10/2005 | 375.22 | NA | 23.94 | NA | 351.28 | |
| GW-3 | 3/18/1996 | 375.63 | NA | 23.40 | NA | 352.23 | |
| GW-3 | 6/6/1996 | 375.63 | NA | 23.24 | NA | 352.39 | |
| GW-3 | 9/25/1996 | 375.63 | NA | 23.92 | NA | 351.71 | |
| GW-3 | 12/13/1996 | 375.63 | NA | 24.06 | NA | 351.57 | |
| GW-3 | 2/27/1997 | 375.63 | NA | 23.86 | NA | 351.77 | |
| GW-3 | 5/19/1997 | 375.63 | NA | 23.88 | NA | 351.75 | |
| GW-3 | 7/28/1997 | 375.63 | NA | 23.40 | NA | 352.23 | |
| GW-3 | 10/27/1997 | 375.63 | NA | 23.98 | NA | 351.65 | |
| GW-3 | 3/18/1998 | 375.63 | NA | 21.67 | NA | 353.96 | |
| GW-3 | 6/26/1998 | 375.63 | NA | 20.89 | NA | 354.74 | |
| GW-3 | 8/27/1998 | 375.63 | NA | 21.01 | NA | 354.62 | |
| GW-3 | 12/17/1998 | 375.63 | NA | 22.61 | NA | 353.02 | |
| GW-3 | 3/23/1999 | 375.63 | NA | 22.15 | NA | 353.48 | |
| GW-3 | 5/25/1999 | 375.63 | NA | 22.34 | NA | 353.29 | |
| GW-3 | 8/24/1999 | 375.63 | NA | 23.98 | NA | 351.65 | |
| GW-3 | 12/9/1999 | 375.63 | NA | 23.74 | NA | 351.89 | |
| GW-3 | 2/22/2000 | 375.63 | NA | 24.25 | NA | 351.38 | |
| GW-3 | 5/22/2000 | 375.70 | NA | 23.34 | NA | 352.36 | |
| GW-3 | 8/24/2000 | 375.70 | NA | 23.99 | NA | 351.71 | |
| GW-3 | 11/14/2000 | 375.70 | NA | 24.52 | NA | 351.18 | |
| GW-3 | 2/12/2001 | 375.70 | NA | 25.00 | NA | 350.70 | |
| GW-3 | 5/30/2001 | 375.70 | NA | 23.88 | NA | 351.82 | |
| GW-3 | 8/14/2001 | 375.70 | NA | 24.31 | NA | 351.39 | |
| GW-3 | 11/14/2001 | 375.70 | NA | 24.99 | NA | 350.71 | |
| GW-3 | 2/13/2002 | 375.70 | NA | 25.52 | NA | 350.18 | |
| GW-3 | 5/8/2002 | 375.70 | NA | 25.99 | NA | 349.71 | |
| GW-3 | 8/13/2002 | 375.70 | NA | 26.48 | NA | 349.22 | |
| GW-3 | 10/28/2002 | 375.70 | NA | 27.07 | NA | 348.63 | |
| GW-3 | 1/22/2003 | 375.70 | NA | 27.89 | NA | 347.81 | |
| GW-3 | 4/14/2003 | 375.70 | NA | 26.42 | NA | 349.28 | |
| GW-3 | 7/9/2003 | 375.70 | NA | 26.10 | NA | 349.60 | |
| GW-3 | 10/2/2003 | 375.70 | NA | 26.39 | NA | 349.31 | |

# TABLE 1
## HISTORICAL GROUNDWATER GAUGING DATA
### ARCO Facility No. 6176
### 1001 E. Amar Rd.
### West Covina, CA

| Well | Date Measured | TOC Elevation (feet msl) | Depth to LPH (feet) | Depth to Water (feet) | LPH Thickness (feet) | Water Elevation (feet msl) | Comments |
|---|---|---|---|---|---|---|---|
| GW-3 | 1/6/2004 | 375.70 | NA | NA | NA | NA | Could not access due to construction |
| GW-3 | 5/5/2004 | 375.70 | NA | 26.71 | NA | 348.99 | |
| GW-3 | 9/2/2004 | 375.70 | NA | 27.28 | NA | 348.42 | |
| GW-3 | 12/9/2004 | 375.70 | NA | 26.91 | NA | 348.79 | |
| GW-3 | 3/10/2005 | 375.70 | NA | 22.82 | NA | 352.88 | |
| GW-4 | 3/18/1996 | 375.28 | NA | 24.90 | NA | 350.38 | |
| GW-4 | 6/6/1996 | 375.28 | NA | 24.61 | NA | 350.67 | |
| GW-4 | 9/25/1996 | 375.28 | NA | 25.29 | NA | 349.99 | |
| GW-4 | 12/13/1996 | 375.28 | NA | 25.85 | NA | 349.43 | |
| GW-4 | 2/27/1997 | 375.28 | NA | 24.50 | NA | 350.78 | |
| GW-4 | 5/19/1997 | 375.28 | NA | 24.32 | NA | 350.96 | |
| GW-4 | 7/28/1997 | 375.28 | NA | 24.80 | NA | 350.48 | |
| GW-4 | 10/27/1997 | 375.28 | NA | 25.40 | NA | 349.88 | |
| GW-4 | 3/18/1998 | 375.28 | NA | 23.53 | NA | 351.75 | |
| GW-4 | 6/26/1998 | 375.28 | NA | 22.42 | NA | 352.86 | |
| GW-4 | 8/27/1998 | 375.28 | NA | 22.41 | NA | 352.87 | |
| GW-4 | 12/17/1998 | 375.28 | NA | 23.99 | NA | 351.29 | |
| GW-4 | 3/23/1999 | 375.28 | NA | 23.50 | NA | 351.78 | |
| GW-4 | 5/25/1999 | 375.28 | NA | 23.71 | NA | 351.57 | |
| GW-4 | 8/24/1999 | 375.28 | NA | 24.30 | NA | 350.98 | |
| GW-4 | 12/9/1999 | 375.28 | NA | 25.01 | NA | 350.27 | |
| GW-4 | 2/22/2000 | 375.28 | NA | 25.54 | NA | 349.74 | |
| GW-4 | 5/22/2000 | 375.40 | NA | 24.68 | NA | 350.72 | |
| GW-4 | 8/24/2000 | 375.40 | NA | 25.38 | NA | 350.02 | |
| GW-4 | 11/14/2000 | 375.40 | NA | 25.88 | NA | 349.52 | |
| GW-4 | 2/12/2001 | 375.40 | NA | 26.39 | NA | 349.01 | |
| GW-4 | 5/30/2001 | 375.40 | NA | 25.35 | NA | 350.05 | |
| GW-4 | 8/14/2001 | 375.40 | NA | 25.74 | NA | 349.66 | |
| GW-4 | 11/14/2001 | 375.40 | NA | 26.40 | NA | 349.00 | |
| GW-4 | 2/13/2002 | 375.40 | NA | 26.95 | NA | 348.45 | |
| GW-4 | 5/8/2002 | 375.40 | NA | 27.41 | NA | 347.99 | |
| GW-4 | 8/13/2002 | 375.40 | NA | 27.94 | NA | 347.46 | |
| GW-4 | 10/28/2002 | 375.40 | NA | 28.54 | NA | 346.86 | |
| GW-4 | 1/22/2003 | 375.40 | NA | 29.75 | NA | 345.65 | |
| GW-4 | 4/14/2003 | 375.40 | NA | 28.00 | NA | 347.40 | |
| GW-4 | 7/9/2003 | 375.40 | NA | 27.69 | NA | 347.71 | |
| GW-4 | 10/2/2003 | 375.40 | NA | 27.93 | NA | 347.47 | |
| GW-4 | 1/6/2004 | 375.40 | NA | 28.47 | NA | 346.93 | |
| GW-4 | 5/5/2004 | 375.40 | NA | 28.28 | NA | 347.12 | |
| GW-4 | 9/2/2004 | 375.40 | NA | 28.81 | NA | 346.59 | |
| GW-4 | 12/9/2004 | 375.40 | NA | 28.51 | NA | 346.89 | |
| GW-4 | 3/10/2005 | 375.40 | NA | 24.90 | NA | 350.50 | |
| GW-5 | 3/18/1996 | 375.02 | NA | 24.30 | NA | 350.72 | |
| GW-5 | 6/6/1996 | 375.02 | NA | 24.09 | NA | 350.93 | |
| GW-5 | 9/25/1996 | 375.02 | NA | 24.65 | NA | 350.37 | |
| GW-5 | 12/13/1996 | 375.02 | NA | 24.87 | NA | 350.15 | |
| GW-5 | 2/27/1997 | 375.02 | NA | 23.78 | NA | 351.24 | |
| GW-5 | 5/19/1997 | 375.02 | NA | 23.70 | NA | 351.32 | |
| GW-5 | 7/28/1997 | 375.02 | NA | 24.16 | NA | 350.86 | |
| GW-5 | 10/27/1997 | 375.02 | NA | 24.76 | NA | 350.26 | |

# TABLE 1
## HISTORICAL GROUNDWATER GAUGING DATA
### ARCO Facility No. 6176
### 1001 E. Amar Rd.
### West Covina, CA

| Well | Date Measured | TOC Elevation (feet msl) | Depth to LPH (feet) | Depth to Water (feet) | LPH Thickness (feet) | Water Elevation (feet msl) | Comments |
|---|---|---|---|---|---|---|---|
| GW-5 | 3/18/1998 | 375.02 | NA | 22.84 | NA | 352.18 | |
| GW-5 | 6/26/1998 | 375.02 | NA | 21.79 | NA | 353.23 | |
| GW-5 | 8/27/1998 | 375.02 | NA | 21.91 | NA | 353.11 | |
| GW-5 | 12/17/1998 | 375.02 | NA | 23.46 | NA | 351.56 | |
| GW-5 | 3/23/1999 | 375.02 | NA | 22.97 | NA | 352.05 | |
| GW-5 | 5/25/1999 | 375.02 | NA | 23.14 | NA | 351.88 | |
| GW-5 | 8/24/1999 | 375.02 | NA | 23.77 | NA | 351.25 | |
| GW-5 | 12/9/1999 | 375.02 | NA | 24.53 | NA | 350.49 | |
| GW-5 | 2/22/2000 | 375.02 | NA | 25.02 | NA | 350.00 | |
| GW-5 | 5/22/2000 | 375.13 | NA | 24.09 | NA | 351.04 | |
| GW-5 | 8/24/2000 | 375.13 | NA | 24.72 | NA | 350.41 | |
| GW-5 | 11/14/2000 | 375.13 | NA | 25.32 | NA | 349.81 | |
| GW-5 | 2/12/2001 | 375.13 | NA | 25.82 | NA | 349.31 | |
| GW-5 | 5/30/2001 | 375.13 | NA | 24.70 | NA | 350.43 | |
| GW-5 | 8/14/2001 | 375.13 | NA | 25.18 | NA | 349.95 | |
| GW-5 | 11/14/2001 | 375.13 | NA | 25.85 | NA | 349.28 | |
| GW-5 | 2/13/2002 | 375.13 | NA | 26.35 | NA | 348.78 | |
| GW-5 | 5/8/2002 | 375.13 | NA | 26.85 | NA | 348.28 | |
| GW-5 | 8/13/2002 | 375.13 | NA | 27.31 | NA | 347.82 | |
| GW-5 | 10/28/2002 | 375.13 | NA | 27.95 | NA | 347.18 | |
| GW-5 | 1/22/2003 | 375.13 | NA | 28.27 | NA | 346.86 | |
| GW-5 | 4/14/2003 | 375.13 | NA | 27.36 | NA | 347.77 | |
| GW-5 | 7/9/2003 | 375.13 | NA | 26.94 | NA | 348.19 | |
| GW-5 | 10/2/2003 | 375.13 | NA | 27.28 | NA | 347.85 | |
| GW-5 | 1/6/2004 | 375.13 | NA | NA | NA | NA | Well not gauged |
| GW-5 | 5/5/2004 | 375.13 | NA | 27.63 | NA | 347.50 | |
| GW-5 | 9/2/2004 | 375.13 | NA | 28.23 | NA | 346.90 | |
| GW-5 | 12/9/2004 | 375.13 | NA | 27.88 | NA | 347.25 | |
| GW-5 | 3/10/2005 | 375.13 | NA | 24.09 | NA | 351.04 | |
| GW-6 | 3/18/1996 | 373.59 | NA | 23.75 | NA | 349.84 | |
| GW-6 | 6/6/1996 | 373.59 | NA | 23.52 | NA | 350.07 | |
| GW-6 | 9/25/1996 | 373.59 | NA | 24.21 | NA | 349.38 | |
| GW-6 | 12/13/1996 | 373.59 | NA | 24.65 | NA | 348.94 | |
| GW-6 | 2/27/1997 | 373.59 | NA | 23.26 | NA | 350.33 | |
| GW-6 | 5/19/1997 | 373.59 | NA | 23.20 | NA | 350.39 | |
| GW-6 | 7/28/1997 | 373.59 | NA | 23.46 | NA | 350.13 | |
| GW-6 | 10/27/1997 | 373.59 | NA | 24.24 | NA | 349.35 | |
| GW-6 | 3/18/1998 | 373.59 | NA | 22.18 | NA | 351.41 | |
| GW-6 | 6/26/1998 | 373.59 | NA | 21.25 | NA | 352.34 | |
| GW-6 | 8/27/1998 | 373.59 | NA | 21.36 | NA | 352.23 | |
| GW-6 | 12/17/1998 | 373.59 | NA | 22.91 | NA | 350.68 | |
| GW-6 | 3/23/1999 | 373.59 | NA | 22.42 | NA | 351.17 | |
| GW-6 | 5/25/1999 | 373.59 | NA | 22.61 | NA | 350.98 | |
| GW-6 | 8/24/1999 | 373.59 | NA | 23.30 | NA | 350.29 | |
| GW-6 | 12/9/1999 | 373.59 | NA | 23.89 | NA | 349.70 | |
| GW-6 | 2/22/2000 | 373.59 | NA | 24.37 | NA | 349.22 | |
| GW-6 | 5/22/2000 | 373.68 | NA | 23.56 | NA | 350.12 | |
| GW-6 | 8/24/2000 | 373.68 | NA | 24.25 | NA | 349.43 | |
| GW-6 | 11/14/2000 | 373.68 | NA | 24.68 | NA | 349.00 | |
| GW-6 | 2/12/2001 | 373.68 | NA | 25.17 | NA | 348.51 | |

# TABLE 1
## HISTORICAL GROUNDWATER GAUGING DATA
### ARCO Facility No. 6176
### 1001 E. Amar Rd.
### West Covina, CA

| Well | Date Measured | TOC Elevation (feet msl) | Depth to LPH (feet) | Depth to Water (feet) | LPH Thickness (feet) | Water Elevation (feet msl) | Comments |
|---|---|---|---|---|---|---|---|
| GW-6 | 5/30/2001 | 373.68 | NA | 24.14 | NA | 349.54 | |
| GW-6 | 8/14/2001 | 373.68 | NA | 24.55 | NA | 349.13 | |
| GW-6 | 11/14/2001 | 373.68 | NA | 25.21 | NA | 348.47 | |
| GW-6 | 2/13/2002 | 373.68 | NA | 25.67 | NA | 348.01 | |
| GW-6 | 5/8/2002 | 373.68 | NA | 26.18 | NA | 347.50 | |
| GW-6 | 8/13/2002 | 373.68 | NA | 26.69 | NA | 346.99 | |
| GW-6 | 10/28/2002 | 373.68 | NA | 27.24 | NA | 346.44 | |
| GW-6 | 1/22/2003 | 373.68 | NA | 28.06 | NA | 345.62 | |
| GW-6 | 4/14/2003 | 373.68 | NA | 26.53 | NA | 347.15 | |
| GW-6 | 7/9/2003 | 373.68 | NA | 26.45 | NA | 347.23 | |
| GW-6 | 10/2/2003 | 373.68 | NA | 26.75 | NA | 346.93 | |
| GW-6 | 1/6/2004 | 373.68 | NA | 27.24 | NA | 346.44 | |
| GW-6 | 5/5/2004 | 373.68 | NA | 27.00 | NA | 346.68 | |
| GW-6 | 9/2/2004 | 373.68 | NA | 27.59 | NA | 346.09 | |
| GW-6 | 12/9/2004 | 373.68 | NA | 27.26 | NA | 346.42 | |
| GW-6 | 3/10/2005 | 373.68 | NA | 25.53 | NA | 348.15 | |
| GW-7 | 3/18/1996 | 374.32 | NA | 22.00 | NA | 352.32 | |
| GW-7 | 6/6/1996 | 374.32 | NA | 22.09 | NA | 352.23 | |
| GW-7 | 9/25/1996 | 374.32 | NA | 22.74 | NA | 351.58 | |
| GW-7 | 12/13/1996 | 374.32 | NA | 23.10 | NA | 351.22 | |
| GW-7 | 2/27/1997 | 374.32 | NA | 21.42 | NA | 352.90 | |
| GW-7 | 5/19/1997 | 374.32 | NA | 21.32 | NA | 353.00 | |
| GW-7 | 7/28/1997 | 374.32 | NA | 21.53 | NA | 352.79 | |
| GW-7 | 10/27/1997 | 374.32 | NA | 22.80 | NA | 351.52 | |
| GW-7 | 3/18/1998 | 374.32 | NA | 19.95 | NA | 354.37 | |
| GW-7 | 6/26/1998 | 374.32 | NA | 19.50 | NA | 354.82 | |
| GW-7 | 8/27/1998 | 374.32 | NA | 19.79 | NA | 354.53 | |
| GW-7 | 12/17/1998 | 374.32 | NA | 21.48 | NA | 352.84 | |
| GW-7 | 3/23/1999 | 374.32 | NA | 21.97 | NA | 352.35 | |
| GW-7 | 5/25/1999 | 374.32 | NA | 21.14 | NA | 353.18 | |
| GW-7 | 8/24/1999 | 374.32 | NA | 22.80 | NA | 351.52 | |
| GW-7 | 12/9/1999 | 374.32 | NA | 22.50 | NA | 351.82 | |
| GW-7 | 2/22/2000 | 374.32 | NA | 22.93 | NA | 351.39 | |
| GW-7 | 5/22/2000 | 374.42 | NA | 22.00 | NA | 352.42 | |
| GW-7 | 8/24/2000 | 374.42 | NA | 22.75 | NA | 351.67 | |
| GW-7 | 11/14/2000 | 374.42 | NA | 23.26 | NA | 351.16 | |
| GW-7 | 2/12/2001 | 374.42 | NA | 23.73 | NA | 350.69 | |
| GW-7 | 5/30/2001 | 374.42 | NA | 22.51 | NA | 351.91 | |
| GW-7 | 8/14/2001 | 374.42 | NA | 23.02 | NA | 351.40 | |
| GW-7 | 11/14/2001 | 374.42 | NA | 23.75 | NA | 350.67 | |
| GW-7 | 2/13/2002 | 374.42 | NA | 24.23 | NA | 350.19 | |
| GW-7 | 5/8/2002 | 374.42 | NA | 24.74 | NA | 349.68 | |
| GW-7 | 8/13/2002 | 374.42 | NA | 25.28 | NA | 349.14 | |
| GW-7 | 10/28/2002 | 374.42 | NA | 25.83 | NA | 348.59 | |
| GW-7 | 1/22/2003 | 374.42 | NA | 27.04 | NA | 347.38 | |
| GW-7 | 4/14/2003 | 374.42 | NA | 25.08 | NA | 349.34 | |
| GW-7 | 7/9/2003 | 374.42 | NA | 24.83 | NA | 349.59 | |
| GW-7 | 10/2/2003 | 374.42 | NA | 25.20 | NA | 349.22 | |
| GW-7 | 1/6/2004 | 374.42 | NA | 25.74 | NA | 348.68 | |
| GW-7 | 5/5/2004 | 374.42 | NA | 25.44 | NA | 348.98 | |

# TABLE 1
## HISTORICAL GROUNDWATER GAUGING DATA
### ARCO Facility No. 6176
### 1001 E. Amar Rd.
### West Covina, CA

| Well | Date Measured | TOC Elevation (feet msl) | Depth to LPH (feet) | Depth to Water (feet) | LPH Thickness (feet) | Water Elevation (feet msl) | Comments |
|---|---|---|---|---|---|---|---|
| GW-7 | 9/2/2004 | 374.42 | NA | 26.05 | NA | 348.37 | |
| GW-7 | 12/9/2004 | 374.42 | NA | 25.69 | NA | 348.73 | |
| GW-7 | 3/10/2005 | 374.42 | NA | 21.04 | NA | 353.38 | |

**Notes:** TOC = Top of casing elevation (relative to mean sea level)

LPH = Liquid-phase hydrocarbons

NA = Not applicable/available

All values are given in feet

Wells surveyed June 12, 2000, by Cal Vada Surveying, Inc. relative to Benchmark DG3633

# TABLE 2

## HISTORICAL GROUNDWATER ANALYTICAL RESULTS

## ARCO Facility No. 6176
## 1001 E. Amar Rd.
## West Covina, CA

| Well | Date Sampled | TPHg (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-Benzene (µg/L) | Xylenes (µg/L) | MTBE 8020/8021B (µg/L) | MTBE 8260B (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | TBA (µg/L) | Ethanol (µg/L) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BC-1 | 3/18/1996 | 75000 | 10000 | 14000 | 3600 | 16000 | NA | NA | NA | NA | NA | NA | NA | |
| BC-1 | 6/6/1996 | 74000 | 9100 | 13000 | 3600 | 16000 | 21000 | NA | NA | NA | NA | NA | NA | |
| BC-1 | 9/25/1996 | 70000 | 6100 | 8600 | 2800 | 12000 | 37000 | NA | NA | NA | NA | NA | NA | |
| BC-1 | 12/13/1996 | 49000 | 4100 | 5300 | 2200 | 10000 | 16000 | NA | NA | NA | NA | NA | NA | |
| BC-1 | 2/27/1997 | 53000 | 7800 | 7300 | 2100 | 9000 | 59000 | NA | NA | NA | NA | NA | NA | |
| BC-1 | 5/19/1997 | 38000 | 6000 | 4900 | 1800 | 8200 | 56000 | NA | NA | NA | NA | NA | NA | |
| BC-1 | 7/28/1997 | 44000 | 5600 | 4600 | 2500 | 10000 | 48000 | NA | NA | NA | NA | NA | NA | |
| BC-1 | 10/27/1997 | 34000 | 3600 | 3100 | 2200 | 8600 | 45000 | NA | NA | NA | NA | NA | NA | |
| BC-1 | 3/18/1998 | 55000 | 5400 | 8800 | 2100 | 9900 | 26000 | NA | NA | NA | NA | NA | NA | |
| BC-1 | 6/26/1998 | 48000 | 4600 | 6800 | 1800 | 8900 | 35000 | NA | NA | NA | NA | NA | NA | |
| BC-1 | 8/27/1998 | 28000 | 3000 | 3400 | 1600 | 7100 | 35000 | NA | NA | NA | NA | NA | NA | |
| BC-1 | 12/17/1998 | 21000 | 1700 | 1700 | 1300 | 5200 | 16000 | NA | NA | NA | NA | NA | NA | |
| BC-1 | 3/23/1999 | 29000 | 1700 | 1300 | 1500 | 4800 | 13000 | NA | NA | NA | NA | NA | NA | |
| BC-1 | 5/25/1999 | 12000 | 1000 | 500 | 770 | 2000 | NA | 13000 | NA | NA | NA | NA | NA | |
| BC-1 | 8/24/1999 | 21000 | 2100 | 1000 | 1400 | 4200 | NA | 7600 | NA | NA | NA | NA | NA | |
| BC-1 | 12/9/1999 | 23000 | 2200 | 1600 | 1400 | 4000 | NA | 3000 | NA | NA | NA | NA | NA | |
| BC-1 | 2/22/2000 | 24000 | 2700 | 2400 | 2000 | 6100 | NA | 1400 | ND<20 | ND<28 | ND<32 | 2000 | NA | |
| BC-1 | 5/22/2000 | 42000 | 4500 | 5100 | 2600 | 9800 | NA | 970 | ND<25 | ND<28 | ND<34 | 1000J | NA | |
| BC-1 | 8/24/2000 | 36000 | 2100 | 2100 | 1700 | 5400 | NA | 390 | ND<20 | ND<23 | ND<27 | 690J | NA | |
| BC-1 | 11/14/2000 | 41000 | 1800 | 2100 | 1900 | 6400 | NA | 270 | ND<20 | ND<23 | ND<27 | 630J | NA | |
| BC-1 | 2/12/2001 | 28000 | 1700 | 1400 | 2200 | 6800 | NA | ND<80 | ND<80 | ND<80 | ND<80 | ND<400 | NA | |
| BC-1 | 5/30/2001 | 15000 | 760 | 280 | 950 | 3000 | NA | ND<80 | ND<80 | ND<80 | ND<80 | ND<400 | NA | |
| BC-1 | 8/14/2001 | 7900 | 470 | 180 | 740 | 1800 | NA | 28J | ND<20 | ND<20 | ND<20 | 210J | NA | |
| BC-1 | 11/14/2001 | 19000 | 600 | 570 | 1300 | 3400 | NA | 36J | ND<20 | ND<20 | ND<20 | ND<100 | NA | |
| BC-1 | 2/13/2002 | 16000 | 320 | 220 | 860 | 1900 | NA | ND<20 | ND<20 | ND<20 | ND<20 | ND<100 | NA | |
| BC-1 | 5/8/2002 | 17000 | 290 | 630 | 1600 | 5100 | NA | ND<40 | ND<40 | ND<40 | ND<40 | ND<200 | NA | |
| BC-1 | 8/13/2002 | 25000 | 160 | 430 | 1200 | 4000 | NA | ND<40 | ND<40 | ND<40 | ND<40 | ND<200 | NA | |
| BC-1 | 10/28/2002 | 20000 | 130 | 290 | 1200 | 3200 | NA | ND<40 | ND<40 | ND<40 | ND<40 | ND<200 | NA | |
| BC-1 | 1/22/2003 | 13000 | 200 | 350 | 1400 | 3500 | NA | ND<40 | ND<40 | ND<40 | ND<40 | ND<200 | ND<1000 | |
| BC-1 | 4/14/2003 | 17000 | 76J | 140 | 970 | 2300 | NA | ND<40 | ND<40 | ND<40 | ND<40 | ND<200 | ND<1000 | |
| BC-1 | 7/9/2003 | 11000 | 27J | 55 | 600 | 1300 | NA | ND<20 | ND<20 | ND<20 | ND<20 | ND<100 | ND<500 | |
| BC-1 | 10/2/2003 | 7400 | 50 | 140 | 560 | 1500 | NA | ND<20 | ND<20 | ND<20 | ND<20 | ND<100 | ND<500 | |
| BC-1 | 1/6/2004 | 8600 | ND<10 | 45J | 390 | 1300 | NA | ND<20 | ND<20 | ND<20 | ND<20 | ND<100 | ND<500 | |
| BC-1 | 5/5/2004 | 5700 | 9.8J | 11J | 220 | 370 | NA | ND<8.0 | ND<8.0 | ND<8.0 | ND<8.0 | ND<40 | ND<200 | |
| BC-1 | 9/2/2004 | 6800 | 41J | 38J | 410 | 760 | NA | ND<20 | ND<20 | ND<20 | ND<20 | ND<100 | ND<500 | |
| BC-1 | 12/9/2004 | 8300 | 23 | 23 | 280 | 430 | NA | ND<4.0 | ND<4.0 | ND<4.0 | ND<4.0 | ND<20 | ND<200 | |

# TABLE 2
## HISTORICAL GROUNDWATER ANALYTICAL RESULTS
## ARCO Facility No. 6176
## 1001 E. Amar Rd.
## West Covina, CA

| Well | Date Sampled | TPHg (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-Benzene (µg/L) | Xylenes (µg/L) | MTBE 8020/8021B (µg/L) | MTBE 8260B (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | TBA (µg/L) | Ethanol (µg/L) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BC-1 | 3/10/2005 | 180 | ND<1.0 | ND<1.0 | 4.0J | 4.7J | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<100 | |
| BC-2 | 3/18/1996 | 11000 | 1000 | ND<6.0 | 1000 | ND<12 | NA | NA | NA | NA | NA | NA | NA | |
| BC-2 | 6/6/1996 | 11000 | 950 | ND<6.0 | 830 | 34 | 2700 | NA | NA | NA | NA | NA | NA | |
| BC-2 | 9/25/1996 | 14000 | 1400 | ND<10 | 1100 | 34 | 5100 | NA | NA | NA | NA | NA | NA | |
| BC-2 | 12/13/1996 | 12000 | 1200 | ND<15 | 920 | ND<30 | 4200 | NA | NA | NA | NA | NA | NA | |
| BC-2 | 2/27/1997 | 9200 | 1100 | ND<30 | 910 | 63 | 5200 | NA | NA | NA | NA | NA | NA | |
| BC-2 | 5/19/1997 | 4400 | 760 | 6.0 | 830 | 24 | 4300 | NA | NA | NA | NA | NA | NA | |
| BC-2 | 7/28/1997 | 10000 | 870 | ND<6.0 | 970 | ND<12 | 5600 | NA | NA | NA | NA | NA | NA | |
| BC-2 | 10/27/1997 | 10000 | 820 | ND<7.5 | 850 | ND<15 | 7500 | NA | NA | NA | NA | NA | NA | |
| BC-2 | 3/18/1998 | 7400 | 390 | 9.2 | 510 | 21 | 8200 | NA | NA | NA | NA | NA | NA | |
| BC-2 | 6/26/1998 | 8100 | 94 | ND<6.0 | 520 | ND<12 | 6300 | NA | NA | NA | NA | NA | NA | |
| BC-2 | 8/27/1998 | 7500 | 130 | ND<10 | 510 | 20 | 12000 | NA | NA | NA | NA | NA | NA | |
| BC-2 | 12/17/1998 | 6800 | 47 | 20 | 230 | ND<12 | 13000 | NA | NA | NA | NA | NA | NA | |
| BC-2 | 3/23/1999 | 5100 | 54 | 15 | 220 | ND<12 | 15000 | NA | NA | NA | NA | NA | NA | |
| BC-2 | 5/25/1999 | 4600 | 47 | 6.4 | 120 | ND<12 | NA | 20000 | NA | NA | NA | NA | NA | |
| BC-2 | 8/24/1999 | 4100 | 25 | ND<3.0 | 77 | ND<6.0 | NA | 19000 | NA | NA | NA | NA | NA | |
| BC-2 | 12/9/1999 | 3400 | 17 | 11 | 55 | ND<1.2 | NA | 20000 | NA | NA | NA | NA | NA | |
| BC-2 | 2/22/2000 | 4200 | ND<55 | ND<47 | ND<90 | ND<410 | NA | 13000 | ND<500 | ND<700 | ND<800 | ND<12000 | NA | |
| BC-2 | 5/22/2000 | 5300 | 21J | ND<2.3 | 36J | ND<20 | NA | 3100 | ND<13 | ND<14 | ND<17 | 23000 | NA | |
| BC-2 | 8/24/2000 | 6300 | 21J | ND<3.7 | 40J | ND<33 | NA | 710 | ND<20 | ND<23 | ND<27 | 16000 | NA | |
| BC-2 | 11/14/2000 | 6500 | 15 | 0.80J | 25 | ND<4.1 | NA | 340 | ND<2.5 | 4.6J | ND<3.4 | 9300 | NA | |
| BC-2 | 2/12/2001 | 4300 | 22J | ND<10 | 34J | ND<10 | NA | 230 | ND<20 | ND<20 | ND<20 | 7900 | NA | |
| BC-2 | 5/30/2001 | 4100 | 22J | ND<10 | 23J | ND<10 | NA | 130 | ND<20 | ND<20 | ND<20 | 8600 | NA | |
| BC-2 | 8/14/2001 | 3400 | 20J | ND<10 | 36J | 20J | NA | 98 | ND<20 | ND<20 | ND<20 | 6000 | NA | |
| BC-2 | 11/14/2001 | 3700 | 13J | ND<10 | 26J | ND<10 | NA | 40J | ND<20 | ND<20 | ND<20 | 2100 | NA | |
| BC-2 | 2/13/2002 | 3400 | 12 | ND<2.5 | 32 | ND<2.5 | NA | 50 | ND<5.0 | ND<5.0 | ND<5.0 | 1700 | NA | |
| BC-2 | 5/8/2002 | 2800 | 11 | ND<2.0 | 32 | ND<2.0 | NA | 58 | ND<4.0 | ND<4.0 | ND<4.0 | 1200 | NA | |
| BC-2 | 8/13/2002 | 2500 | 7.0 | ND<1.0 | 28 | ND<1.0 | NA | 46 | ND<2.0 | ND<2.0 | ND<2.0 | 710 | NA | |
| BC-2 | 10/28/2002 | 2600 | 6.6 | ND<1.0 | 33 | ND<1.0 | NA | 45 | ND<2.0 | ND<2.0 | ND<2.0 | 590 | NA | |
| BC-2 | 1/22/2003 | 1900 | 5.0 | ND<1.0 | 22 | ND<1.0 | NA | 27 | ND<2.0 | ND<2.0 | ND<2.0 | 420 | ND<50 | |
| BC-2 | 4/14/2003 | 2300 | 3.1J | ND<1.0 | 8.3 | ND<1.0 | NA | 22 | ND<2.0 | ND<2.0 | ND<2.0 | 360 | ND<50 | |
| BC-2 | 7/9/2003 | 1600 | 2.5J | ND<1.0 | 1.8J | ND<1.0 | NA | 9.6 | ND<2.0 | ND<2.0 | ND<2.0 | 230 | ND<50 | |
| BC-2 | 10/2/2003 | 1500 | 1.9J | ND<1.0 | 1.3J | ND<1.0 | NA | 13 | ND<2.0 | ND<2.0 | ND<2.0 | 160 | ND<50 | |
| BC-2 | 1/6/2004 | 1200 | 2.7J | ND<1.0 | 1.1J | ND<1.0 | NA | 15 | ND<2.0 | ND<2.0 | ND<2.0 | 150 | ND<50 | |
| BC-2 | 5/5/2004 | 1400 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | 12 | ND<2.0 | ND<2.0 | ND<2.0 | 100 | ND<50 | |
| BC-2 | 9/2/2004 | 1300 | 1.3J | ND<1.0 | ND<1.0 | ND<1.0 | NA | 9.8 | ND<2.0 | ND<2.0 | ND<2.0 | 57 | ND<50 | |

# TABLE 2
## HISTORICAL GROUNDWATER ANALYTICAL RESULTS
## ARCO Facility No. 6176
## 1001 E. Amar Rd.
## West Covina, CA

| Well | Date Sampled | TPHg (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-Benzene (µg/L) | Xylenes (µg/L) | MTBE 8020/8021B (µg/L) | MTBE 8260B (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | TBA (µg/L) | Ethanol (µg/L) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BC-2 | 12/9/2004 | 1600 | 1.4J | ND<1.0 | ND<1.0 | ND<1.0 | NA | 9.6 | ND<2.0 | ND<2.0 | ND<2.0 | 47 | ND<100 | |
| BC-2 | 3/10/2005 | 970 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | 2.8J | ND<2.0 | ND<2.0 | ND<2.0 | 14J | ND<100 | |
| BC-17 | 9/25/1996 | 140 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| BC-17 | 12/13/1996 | 110 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| BC-17 | 2/27/1997 | 69 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| BC-17 | 5/19/1997 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| BC-17 | 7/28/1997 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| BC-17 | 10/27/1997 | 73 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| BC-17 | 3/18/1998 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| BC-17 | 6/26/1998 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| BC-17 | 8/27/1998 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| BC-17 | 12/17/1998 | 100 | ND<0.30 | 0.37 | 0.34 | 1.8 | ND<10 | NA | NA | NA | NA | NA | NA | |
| BC-17 | 3/23/1999 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| BC-17 | 5/25/1999 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | NA | 12 | NA | NA | NA | NA | NA | |
| BC-17 | 8/24/1999 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | NA | 24 | NA | NA | NA | NA | NA | |
| BC-17 | 12/9/1999 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | NA | 16 | NA | NA | NA | NA | NA | |
| BC-17 | 2/22/2000 | 11 | ND<0.11 | ND<0.093 | ND<0.18 | ND<0.83 | NA | 8.1 | ND<1.0 | ND<1.4 | ND<1.6 | ND<24 | NA | |
| BC-17 | 5/22/2000 | 18J | ND<0.11 | ND<0.093 | ND<0.18 | ND<0.82 | NA | 6.5 | ND<0.50 | ND<0.57 | ND<0.68 | ND<5.0 | NA | |
| BC-17 | 8/24/2000 | ND<7.0 | ND<0.11 | ND<0.093 | ND<0.18 | ND<0.82 | NA | 7.9 | ND<0.50 | ND<0.57 | ND<0.68 | ND<5.0 | NA | |
| BC-17 | 11/14/2000 | 9.6J | ND<0.11 | ND<0.093 | ND<0.18 | ND<0.82 | NA | 3.4J | ND<0.50 | ND<0.57 | ND<0.68 | ND<5.0 | NA | |
| BC-17 | 2/12/2001 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | 3.7J | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| BC-17 | 5/30/2001 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | 9.9 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| BC-17 | 8/14/2001 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | 15 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| BC-17 | 11/14/2001 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | 7.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| BC-17 | 2/13/2002 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | 8.3 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| BC-17 | 5/8/2002 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| BC-17 | 8/13/2002 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | 4.2J | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| BC-17 | 10/28/2002 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | 2.4J | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| BC-17 | 1/22/2003 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | Well dry |
| BC-17 | 4/14/2003 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | 2.4J | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| BC-17 | 7/9/2003 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| BC-17 | 10/2/2003 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | 2.3J | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| BC-17 | 1/6/2004 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | 2.4J | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| BC-17 | 5/5/2004 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| BC-17 | 9/2/2004 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | Well dry |
| BC-17 | 3/10/2005 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<100 | |

# TABLE 2
## HISTORICAL GROUNDWATER ANALYTICAL RESULTS
## ARCO Facility No. 6176
## 1001 E. Amar Rd.
## West Covina, CA

| Well | Date Sampled | TPHg (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-Benzene (µg/L) | Xylenes (µg/L) | MTBE 8020/8021B (µg/L) | MTBE 8260B (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | TBA (µg/L) | Ethanol (µg/L) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BC-18 | 9/25/1996 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| BC-18 | 12/13/1996 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| BC-18 | 2/27/1997 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| BC-18 | 5/19/1997 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| BC-18 | 7/28/1997 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| BC-18 | 10/27/1997 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| BC-18 | 3/18/1998 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| BC-18 | 6/26/1998 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| BC-18 | 8/27/1998 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| BC-18 | 12/17/1998 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| BC-18 | 3/23/1999 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| BC-18 | 5/25/1999 | ND<50 | ND<0.30 | 0.34 | ND<0.30 | 0.88 | NA | ND<5.0 | NA | NA | NA | NA | NA | |
| BC-18 | 8/24/1999 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | NA | ND<5.0 | NA | NA | NA | NA | NA | |
| BC-18 | 12/9/1999 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | NA | ND<5.0 | NA | NA | NA | NA | NA | |
| BC-18 | 2/22/2000 | ND<9.3 | ND<0.11 | ND<0.093 | ND<0.18 | ND<0.83 | NA | ND<0.28 | ND<1.0 | ND<1.4 | ND<1.6 | ND<24 | NA | |
| BC-18 | 5/22/2000 | 51 | ND<0.11 | ND<0.093 | ND<0.18 | ND<0.82 | NA | ND<0.28 | ND<0.50 | ND<0.57 | ND<0.68 | ND<5.0 | NA | |
| BC-18 | 8/24/2000 | 58 | ND<0.11 | ND<0.093 | ND<0.18 | ND<0.82 | NA | ND<0.28 | ND<0.50 | ND<0.57 | ND<0.68 | ND<5.0 | NA | |
| BC-18 | 11/14/2000 | 28J | 0.13J | 0.13J | 0.62J | ND<0.82 | NA | ND<0.28 | ND<0.50 | ND<0.57 | ND<0.68 | ND<5.0 | NA | |
| BC-18 | 2/12/2001 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| BC-18 | 5/30/2001 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| BC-18 | 8/14/2001 | ND<50 | 7.1 | 2.8J | 16 | 37 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| BC-18 | 11/14/2001 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| BC-18 | 2/13/2002 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| BC-18 | 5/8/2002 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| BC-18 | 8/13/2002 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| BC-18 | 10/28/2002 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | Unable to locate well |
| BC-18 | 1/22/2003 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| BC-18 | 4/14/2003 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | Unable to locate well |
| BC-18 | 7/9/2003 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | Unable to locate well. |
| BC-18 | 10/2/2003 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | Unable to locate well. Well located & repaired on 10/7/03. |
| BC-18 | 1/6/2004 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| BC-18 | 5/5/2004 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| BC-18 | 9/2/2004 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| BC-18 | 12/9/2004 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<100 | |
| BC-18 | 3/10/2005 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<100 | |

# TABLE 2
## HISTORICAL GROUNDWATER ANALYTICAL RESULTS
### ARCO Facility No. 6176
### 1001 E. Amar Rd.
### West Covina, CA

| Well | Date Sampled | TPHg (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-Benzene (µg/L) | Xylenes (µg/L) | MTBE 8020/8021B (µg/L) | MTBE 8260B (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | TBA (µg/L) | Ethanol (µg/L) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GW-1 | 3/18/1996 | 720 | 56 | ND<0.6 | 0.62 | 2.2 | NA | NA | NA | NA | NA | NA | NA | |
| GW-1 | 6/6/1996 | 490 | 9.7 | ND<0.3 | 1.2 | 4.4 | 1500 | NA | NA | NA | NA | NA | NA | |
| GW-1 | 9/25/1996 | 270 | 20 | ND<0.30 | 0.39 | ND<0.60 | 10000 | NA | NA | NA | NA | NA | NA | |
| GW-1 | 12/13/1996 | 190 | 7.5 | 1.2 | 0.49 | ND<0.6 | 3800 | NA | NA | NA | NA | NA | NA | |
| GW-1 | 2/27/1997 | 1400 | 65 | ND<3.0 | 4.5 | 7.2 | 7000 | NA | NA | NA | NA | NA | NA | |
| GW-1 | 5/19/1997 | 290 | 28 | ND<1.5 | ND<1.5 | ND<3.0 | 20000 | NA | NA | NA | NA | NA | NA | |
| GW-1 | 7/28/1997 | 710 | 57 | 1.8 | 1.3 | 2.5 | 92000 | NA | NA | NA | NA | NA | NA | |
| GW-1 | 10/27/1997 | ND<650 | ND<3.9 | ND<3.9 | ND<3.9 | ND<7.8 | 9900 | NA | NA | NA | NA | NA | NA | |
| GW-1 | 3/18/1998 | 290 | 14 | ND<0.30 | ND<0.30 | ND<0.60 | 11000 | NA | NA | NA | NA | NA | NA | |
| GW-1 | 6/26/1998 | 61 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | 1700 | NA | NA | NA | NA | NA | NA | |
| GW-1 | 8/27/1998 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | 5600 | NA | NA | NA | NA | NA | NA | |
| GW-1 | 12/17/1998 | 64 | 0.8 | ND<0.30 | ND<0.30 | ND<0.60 | 850 | NA | NA | NA | NA | NA | NA | |
| GW-1 | 3/23/1999 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | 1600 | NA | NA | NA | NA | NA | NA | |
| GW-1 | 5/25/1999 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | NA | 240 | NA | NA | NA | NA | NA | |
| GW-1 | 8/24/1999 | 53 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | NA | 810 | NA | NA | NA | NA | NA | |
| GW-1 | 12/9/1999 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | NA | 190 | NA | NA | NA | NA | NA | |
| GW-1 | 2/22/2000 | 31 | ND<0.11 | ND<0.093 | ND<0.18 | ND<0.83 | NA | 36 | ND<1.0 | ND<1.4 | ND<1.6 | ND<24 | NA | |
| GW-1 | 5/22/2000 | 57 | ND<0.11 | ND<0.093 | ND<0.18 | ND<0.82 | NA | 140 | ND<0.50 | ND<0.57 | ND<0.68 | ND<5.0 | NA | |
| GW-1 | 8/24/2000 | 76 | ND<0.11 | ND<0.093 | ND<0.18 | ND<0.82 | NA | 13 | ND<0.50 | ND<0.57 | ND<0.68 | 11J | NA | |
| GW-1 | 11/14/2000 | 62 | ND<0.11 | ND<0.093 | ND<0.18 | ND<0.82 | NA | 6.6 | ND<0.50 | ND<0.57 | ND<0.68 | ND<5.0 | NA | |
| GW-1 | 2/12/2001 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-1 | 5/30/2001 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | 2.6J | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-1 | 8/14/2001 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-1 | 11/14/2001 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-1 | 2/13/2002 | 56 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-1 | 5/8/2002 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-1 | 8/13/2002 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-1 | 10/28/2002 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-1 | 1/22/2003 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| GW-1 | 4/14/2003 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| GW-1 | 7/9/2003 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| GW-1 | 10/2/2003 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| GW-1 | 1/6/2004 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| GW-1 | 5/5/2004 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| GW-1 | 9/2/2004 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| GW-1 | 12/9/2004 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<100 | |

# TABLE 2
## HISTORICAL GROUNDWATER ANALYTICAL RESULTS
## ARCO Facility No. 6176
## 1001 E. Amar Rd.
## West Covina, CA

| Well | Date Sampled | TPHg (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-Benzene (µg/L) | Xylenes (µg/L) | MTBE 8020/8021B (µg/L) | MTBE 8260B (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | TBA (µg/L) | Ethanol (µg/L) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GW-1 | 3/10/2005 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<100 | |
| GW-2 | 3/18/1996 | 1400 | 12 | ND<0.30 | 52 | 40 | NA | NA | NA | NA | NA | NA | NA | |
| GW-2 | 6/6/1996 | 1700 | 6.7 | 0.71 | 60 | 53 | 750 | NA | NA | NA | NA | NA | NA | |
| GW-2 | 9/25/1996 | 990 | 9.8 | ND<0.60 | 31 | 29 | 1800 | NA | NA | NA | NA | NA | NA | |
| GW-2 | 12/13/1996 | 2200 | 24 | 2.8 | 57 | 48 | 750 | NA | NA | NA | NA | NA | NA | |
| GW-2 | 2/27/1997 | 910 | 49 | ND<0.30 | 24 | 16 | 3500 | NA | NA | NA | NA | NA | NA | |
| GW-2 | 5/19/1997 | 550 | 5.3 | 0.36 | 12 | 11 | 2900 | NA | NA | NA | NA | NA | NA | |
| GW-2 | 7/28/1997 | 230 | 1.2 | ND<0.6 | 2.8 | 2.7 | 3400 | NA | NA | NA | NA | NA | NA | |
| GW-2 | 10/27/1997 | 1100 | 2.5 | 1.9 | 37 | 34 | 2400 | NA | NA | NA | NA | NA | NA | |
| GW-2 | 3/18/1998 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | 1600 | NA | NA | NA | NA | NA | NA | |
| GW-2 | 6/26/1998 | 190 | 1.2 | ND<0.60 | 1.8 | 2.1 | 2800 | NA | NA | NA | NA | NA | NA | |
| GW-2 | 8/27/1998 | 110 | 0.56 | ND<0.30 | ND<0.30 | ND<0.60 | 3200 | NA | NA | NA | NA | NA | NA | |
| GW-2 | 12/17/1998 | 110 | 0.4 | ND<0.30 | 0.52 | ND<0.60 | 950 | NA | NA | NA | NA | NA | NA | |
| GW-2 | 3/23/1999 | 82 | ND<0.30 | ND<0.30 | 0.59 | 0.79 | 590 | NA | NA | NA | NA | NA | NA | |
| GW-2 | 5/25/1999 | 160 | 1.5 | ND<0.30 | 0.47 | ND<0.60 | NA | 640 | NA | NA | NA | NA | NA | |
| GW-2 | 8/24/1999 | 110 | 0.66 | ND<0.30 | 0.41 | ND<0.60 | NA | 360 | NA | NA | NA | NA | NA | |
| GW-2 | 12/9/1999 | 110 | ND<0.30 | 0.71 | ND<0.30 | ND<0.60 | NA | 290 | NA | NA | NA | NA | NA | |
| GW-2 | 2/22/2000 | 360 | ND<0.11 | ND<0.093 | 7.3 | 3.2 | NA | 200 | ND<1.0 | ND<1.4 | ND<1.6 | ND<24 | NA | |
| GW-2 | 5/22/2000 | 94 | ND<0.11 | ND<0.093 | 0.18J | ND<0.82 | NA | 110 | ND<0.50 | ND<0.57 | ND<0.68 | ND<5.0 | NA | |
| GW-2 | 8/24/2000 | 570 | ND<0.11 | ND<0.093 | 6.0 | 2.5J | NA | 82 | ND<0.50 | ND<0.57 | ND<0.68 | ND<5.0 | NA | |
| GW-2 | 11/14/2000 | 630 | ND<0.11 | ND<0.093 | 5.7 | 2.9J | NA | 25 | ND<0.50 | ND<0.57 | ND<0.68 | ND<5.0 | NA | |
| GW-2 | 2/12/2001 | 660 | ND<1.0 | ND<1.0 | 4.1J | 1.8J | NA | 15 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-2 | 5/30/2001 | 63J | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | 6.2 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-2 | 8/14/2001 | 540 | ND<1.0 | ND<1.0 | 6.4 | 2.3J | NA | 8.4 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-2 | 11/14/2001 | 380 | ND<1.0 | ND<1.0 | 2.8J | ND<1.0 | NA | 4.6 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-2 | 2/13/2002 | 570 | ND<1.0 | ND<1.0 | 5.3 | 1.7J | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-2 | 5/8/2002 | 640 | ND<1.0 | ND<1.0 | 8.8 | 2.8J | NA | 3.1J | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-2 | 8/13/2002 | 970 | ND<1.0 | ND<1.0 | 18 | 5.4 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-2 | 10/28/2002 | 640 | ND<1.0 | ND<1.0 | 9.8 | 2.0J | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-2 | 1/22/2003 | 790 | ND<1.0 | ND<1.0 | 17 | 4.0J | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| GW-2 | 4/14/2003 | 500 | ND<1.0 | ND<1.0 | 2.0J | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| GW-2 | 7/9/2003 | 220 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| GW-2 | 10/2/2003 | ND<50 | ND<1.0 | ND<1.0 | 11 | 2.2J | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| GW-2 | 1/6/2004 | 1500 | ND<1.0 | ND<1.0 | 22 | 5.5 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| GW-2 | 5/5/2004 | 1100 | ND<1.0 | ND<1.0 | 15 | 3.3J | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| GW-2 | 9/2/2004 | 560 | ND<1.0 | ND<1.0 | 8.9 | 1.8J | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |

# TABLE 2
## HISTORICAL GROUNDWATER ANALYTICAL RESULTS
### ARCO Facility No. 6176
### 1001 E. Amar Rd.
### West Covina, CA

| Well | Date Sampled | TPHg (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-Benzene (µg/L) | Xylenes (µg/L) | MTBE 8020/8021B (µg/L) | MTBE 8260B (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | TBA (µg/L) | Ethanol (µg/L) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GW-2 | 12/9/2004 | 860 | ND<1.0 | ND<1.0 | 13 | 2.7J | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<100 | |
| GW-2 | 3/10/2005 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<100 | |
| GW-3 | 3/18/1996 | ND<50 | ND<0.3 | ND<0.3 | ND<0.3 | ND<0.6 | NA | NA | NA | NA | NA | NA | NA | |
| GW-3 | 6/6/1996 | ND<50 | ND<0.3 | ND<0.3 | ND<0.3 | ND<0.6 | 100 | NA | NA | NA | NA | NA | NA | |
| GW-3 | 9/25/1996 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | 61 | NA | NA | NA | NA | NA | NA | |
| GW-3 | 12/13/1996 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | 19 | NA | NA | NA | NA | NA | NA | |
| GW-3 | 2/27/1997 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | 12 | NA | NA | NA | NA | NA | NA | |
| GW-3 | 5/19/1997 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| GW-3 | 7/28/1997 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| GW-3 | 10/27/1997 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| GW-3 | 3/18/1998 | ND<50 | 0.92 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| GW-3 | 6/26/1998 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| GW-3 | 8/27/1998 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| GW-3 | 12/17/1998 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| GW-3 | 3/23/1999 | ND<50 | 0.43 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| GW-3 | 5/25/1999 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | NA | ND<5.0 | NA | NA | NA | NA | NA | |
| GW-3 | 8/24/1999 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | NA | ND<5.0 | NA | NA | NA | NA | NA | |
| GW-3 | 12/9/1999 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | NA | ND<5.0 | NA | NA | NA | NA | NA | |
| GW-3 | 2/22/2000 | ND<9.3 | ND<0.11 | ND<0.093 | ND<0.18 | ND<0.83 | NA | 1.9J | ND<1.0 | ND<1.4 | ND<1.6 | ND<24 | NA | |
| GW-3 | 5/22/2000 | 10J | ND<0.11 | ND<0.093 | ND<0.18 | ND<0.82 | NA | 0.29J | ND<0.50 | ND<0.57 | ND<0.68 | ND<5.0 | NA | |
| GW-3 | 8/24/2000 | 27J | ND<0.11 | ND<0.093 | ND<0.18 | ND<0.82 | NA | ND<0.28 | ND<0.50 | ND<0.57 | ND<0.68 | ND<5.0 | NA | |
| GW-3 | 11/14/2000 | 7.1J | ND<0.11 | ND<0.093 | ND<0.18 | ND<0.82 | NA | 0.28J | ND<0.50 | ND<0.57 | ND<0.68 | ND<5.0 | NA | |
| GW-3 | 2/12/2001 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-3 | 5/30/2001 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-3 | 8/14/2001 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-3 | 11/14/2001 | 64J | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-3 | 2/13/2002 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-3 | 5/8/2002 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-3 | 8/13/2002 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-3 | 10/28/2002 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-3 | 1/22/2003 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| GW-3 | 4/14/2003 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| GW-3 | 7/9/2003 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| GW-3 | 10/2/2003 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| GW-3 | 1/6/2004 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | Could not access due to construction |
| GW-3 | 5/5/2004 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |

# TABLE 2
## HISTORICAL GROUNDWATER ANALYTICAL RESULTS
### ARCO Facility No. 6176
### 1001 E. Amar Rd.
### West Covina, CA

| Well | Date Sampled | TPHg (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-Benzene (µg/L) | Xylenes (µg/L) | MTBE 8020/8021B (µg/L) | MTBE 8260B (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | TBA (µg/L) | Ethanol (µg/L) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GW-3 | 9/2/2004 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| GW-3 | 12/9/2004 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<100 | |
| GW-3 | 3/10/2005 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<100 | |
| GW-4 | 3/18/1996 | ND<50 | ND<0.3 | ND<0.3 | ND<0.3 | ND<0.6 | NA | NA | NA | NA | NA | NA | NA | |
| GW-4 | 6/6/1996 | ND<50 | ND<0.3 | ND<0.3 | ND<0.3 | ND<0.6 | ND<10 | NA | NA | NA | NA | NA | NA | |
| GW-4 | 9/25/1996 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| GW-4 | 12/13/1996 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| GW-4 | 2/27/1997 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | 14 | NA | NA | NA | NA | NA | NA | |
| GW-4 | 5/19/1997 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| GW-4 | 7/28/1997 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| GW-4 | 10/27/1997 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| GW-4 | 3/18/1998 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | 12 | NA | NA | NA | NA | NA | NA | |
| GW-4 | 6/26/1998 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| GW-4 | 8/27/1998 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | 39 | NA | NA | NA | NA | NA | NA | |
| GW-4 | 12/17/1998 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | 11 | NA | NA | NA | NA | NA | NA | |
| GW-4 | 3/23/1999 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | 24 | NA | NA | NA | NA | NA | NA | |
| GW-4 | 5/25/1999 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | NA | 8.6 | NA | NA | NA | NA | NA | |
| GW-4 | 8/24/1999 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | NA | 5.8 | NA | NA | NA | NA | NA | |
| GW-4 | 12/9/1999 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | NA | ND<5.0 | NA | NA | NA | NA | NA | |
| GW-4 | 2/22/2000 | ND<9.3 | ND<0.11 | ND<0.093 | ND<0.18 | ND<0.83 | NA | 0.64J | ND<1.0 | ND<1.4 | ND<1.6 | ND<24 | NA | |
| GW-4 | 5/22/2000 | 7.8J | ND<0.11 | ND<0.093 | ND<0.18 | ND<0.82 | NA | 0.52J | ND<0.50 | ND<0.57 | ND<0.68 | ND<5.0 | NA | |
| GW-4 | 8/24/2000 | 28J | ND<0.11 | ND<0.093 | ND<0.18 | ND<0.82 | NA | ND<0.28 | ND<0.50 | ND<0.57 | ND<0.68 | ND<5.0 | NA | |
| GW-4 | 11/14/2000 | ND<6.6 | ND<0.11 | ND<0.093 | ND<0.18 | ND<0.82 | NA | ND<0.28 | ND<0.50 | ND<0.57 | ND<0.68 | ND<5.0 | NA | |
| GW-4 | 2/12/2001 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-4 | 5/30/2001 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-4 | 8/14/2001 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-4 | 11/14/2001 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-4 | 2/13/2002 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-4 | 5/8/2002 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-4 | 8/13/2002 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-4 | 10/28/2002 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-4 | 1/22/2003 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| GW-4 | 4/14/2003 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| GW-4 | 7/9/2003 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| GW-4 | 10/2/2003 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| GW-4 | 1/6/2004 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |

# TABLE 2
## HISTORICAL GROUNDWATER ANALYTICAL RESULTS
## ARCO Facility No. 6176
## 1001 E. Amar Rd.
## West Covina, CA

| Well | Date Sampled | TPHg (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-Benzene (µg/L) | Xylenes (µg/L) | MTBE 8020/8021B (µg/L) | MTBE 8260B (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | TBA (µg/L) | Ethanol (µg/L) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GW-4 | 5/5/2004 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| GW-4 | 9/2/2004 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| GW-4 | 12/9/2004 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<100 | |
| GW-4 | 3/10/2005 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<100 | |
| GW-5 | 3/18/1996 | 360 | 0.38 | 0.83 | 3.1 | 4.0 | NA | NA | NA | NA | NA | NA | NA | |
| GW-5 | 6/6/1996 | 330 | 0.89 | ND<0.3 | 1.7 | 2.44 | 88 | NA | NA | NA | NA | NA | NA | |
| GW-5 | 9/25/1996 | 110 | 0.68 | ND<0.30 | 0.8 | 0.91 | 150 | NA | NA | NA | NA | NA | NA | |
| GW-5 | 12/13/1996 | 500 | 2.8 | ND<0.30 | 3.5 | 2.7 | 170 | NA | NA | NA | NA | NA | NA | |
| GW-5 | 2/27/1997 | 140 | 0.51 | ND<0.30 | 1.5 | 2.2 | 290 | NA | NA | NA | NA | NA | NA | |
| GW-5 | 5/19/1997 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| GW-5 | 7/28/1997 | 51 | 0.37 | ND<0.3 | ND<0.3 | 0.6 | 160 | NA | NA | NA | NA | NA | NA | |
| GW-5 | 10/27/1997 | 360 | 1.4 | ND<0.30 | 2.2 | 2.0 | 160 | NA | NA | NA | NA | NA | NA | |
| GW-5 | 3/18/1998 | 180 | 0.55 | ND<0.30 | 1.3 | 1.2 | 280 | NA | NA | NA | NA | NA | NA | |
| GW-5 | 6/26/1998 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | 250 | NA | NA | NA | NA | NA | NA | |
| GW-5 | 8/27/1998 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | 420 | NA | NA | NA | NA | NA | NA | |
| GW-5 | 12/17/1998 | 94 | 1.0 | ND<0.30 | ND<0.30 | ND<0.60 | 420 | NA | NA | NA | NA | NA | NA | |
| GW-5 | 3/23/1999 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | 550 | NA | NA | NA | NA | NA | NA | |
| GW-5 | 5/25/1999 | 63 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | NA | 250 | NA | NA | NA | NA | NA | |
| GW-5 | 8/24/1999 | 58 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | NA | 190 | NA | NA | NA | NA | NA | |
| GW-5 | 12/9/1999 | 230 | ND<0.30 | 0.58 | 1.5 | 1.6 | NA | 87 | NA | NA | NA | NA | NA | |
| GW-5 | 2/22/2000 | 140 | ND<0.11 | ND<0.093 | 0.27J | ND<0.83 | NA | 71 | ND<1.0 | ND<1.4 | ND<1.6 | ND<24 | NA | |
| GW-5 | 5/22/2000 | 350 | ND<0.11 | ND<0.093 | 0.67J | ND<0.82 | NA | 41 | ND<0.50 | ND<0.57 | ND<0.68 | ND<5.0 | NA | |
| GW-5 | 8/24/2000 | 280 | ND<0.11 | ND<0.093 | 0.63J | ND<0.82 | NA | 26 | ND<0.50 | ND<0.57 | ND<0.68 | ND<5.0 | NA | |
| GW-5 | 11/14/2000 | 320 | ND<0.11 | ND<0.093 | 1.1J | ND<0.82 | NA | 15 | ND<0.50 | ND<0.57 | ND<0.68 | ND<5.0 | NA | |
| GW-5 | 2/12/2001 | 210 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | 6.7 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-5 | 5/30/2001 | 540 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | 3.5J | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-5 | 8/14/2001 | 320 | ND<1.0 | ND<1.0 | 1.2J | ND<1.0 | NA | 3.1J | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-5 | 11/14/2001 | 360 | ND<1.0 | ND<1.0 | 1.2J | 1.1J | NA | 2.0J | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-5 | 2/13/2002 | 150 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-5 | 5/8/2002 | 180 | ND<1.0 | ND<1.0 | 1.4J | 1.1J | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-5 | 8/13/2002 | 200 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-5 | 10/28/2002 | 100 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-5 | 1/22/2003 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| GW-5 | 4/14/2003 | 930 | ND<1.0 | ND<1.0 | 1.1J | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| GW-5 | 7/9/2003 | 440 | ND<1.0 | ND<1.0 | 1.3J | 1.0J | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| GW-5 | 10/2/2003 | 780 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |

# TABLE 2
## HISTORICAL GROUNDWATER ANALYTICAL RESULTS
## ARCO Facility No. 6176
## 1001 E. Amar Rd.
## West Covina, CA

| Well | Date Sampled | TPHg (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-Benzene (µg/L) | Xylenes (µg/L) | MTBE 8020/8021B (µg/L) | MTBE 8260B (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | TBA (µg/L) | Ethanol (µg/L) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GW-5 | 1/6/2004 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | Well not sampled |
| GW-5 | 5/5/2004 | 230 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| GW-5 | 9/2/2004 | 500 | ND<1.0 | ND<1.0 | 1.1J | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| GW-5 | 12/9/2004 | 230 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<100 | |
| GW-5 | 3/10/2005 | 330 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<100 | |
| GW-6 | 3/18/1996 | 6700 | 810 | 43 | 420 | 360 | NA | NA | NA | NA | NA | NA | NA | |
| GW-6 | 6/6/1996 | 9600 | 1200 | 110 | 660 | 730 | 4300 | NA | NA | NA | NA | NA | NA | |
| GW-6 | 9/25/1996 | 1200 | 200 | 13 | 97 | 90 | 1300 | NA | NA | NA | NA | NA | NA | |
| GW-6 | 12/13/1996 | 8300 | 980 | 93 | 550 | 630 | 3600 | NA | NA | NA | NA | NA | NA | |
| GW-6 | 2/27/1997 | 3300 | 340 | 27 | 320 | 320 | 2600 | NA | NA | NA | NA | NA | NA | |
| GW-6 | 5/19/1997 | 6400 | 320 | 42 | 560 | 630 | 5000 | NA | NA | NA | NA | NA | NA | |
| GW-6 | 7/28/1997 | ND<50 | 3.8 | 0.72 | 1.0 | 8.8 | 290 | NA | NA | NA | NA | NA | NA | |
| GW-6 | 10/27/1997 | 4600 | 480 | 49 | 610 | 600 | 12000 | NA | NA | NA | NA | NA | NA | |
| GW-6 | 3/18/1998 | 4500 | 180 | 20 | 400 | 390 | 10000 | NA | NA | NA | NA | NA | NA | |
| GW-6 | 6/26/1998 | 4300 | 38 | ND<3.0 | 310 | 270 | 7100 | NA | NA | NA | NA | NA | NA | |
| GW-6 | 8/27/1998 | 2700 | 55 | 13 | 460 | 360 | 6300 | NA | NA | NA | NA | NA | NA | |
| GW-6 | 12/17/1998 | 3900 | 110 | 19 | 380 | 270 | 4500 | NA | NA | NA | NA | NA | NA | |
| GW-6 | 3/23/1999 | 970 | 35 | 9.3 | 100 | 57 | 1300 | NA | NA | NA | NA | NA | NA | |
| GW-6 | 5/25/1999 | 3500 | 230 | 68 | 350 | 280 | NA | 3800 | NA | NA | NA | NA | NA | |
| GW-6 | 8/24/1999 | 3100 | 130 | 30 | 300 | 200 | NA | 2000 | NA | NA | NA | NA | NA | |
| GW-6 | 12/9/1999 | 3000 | 120 | 27 | 280 | 210 | NA | 1200 | NA | NA | NA | NA | NA | |
| GW-6 | 2/22/2000 | 3800 | 140 | 26 | 400 | 220 | NA | 840 | ND<10 | ND<14 | ND<16 | 1300 | NA | |
| GW-6 | 5/22/2000 | 4400 | 84 | 13 | 300 | 150 | NA | 530 | ND<2.5 | ND<2.8 | ND<3.4 | 1200 | NA | |
| GW-6 | 8/24/2000 | 3500 | 170 | 16 | 440 | 150 | NA | 390 | ND<2.0 | ND<2.3 | ND<2.7 | 750 | NA | |
| GW-6 | 11/14/2000 | 8600 | 180 | 54 | 420 | 390 | NA | 300 | ND<2.5 | ND<2.8 | ND<3.4 | 690 | NA | |
| GW-6 | 2/12/2001 | 3200 | 60 | 15J | 420 | 140 | NA | 150 | ND<10 | ND<10 | ND<10 | 250 | NA | |
| GW-6 | 5/30/2001 | 3000 | 17 | 3.9J | 200 | 62 | NA | 69 | ND<2.0 | ND<2.0 | ND<2.0 | 170 | NA | |
| GW-6 | 8/14/2001 | 2000 | 23J | 15J | 410 | 160 | NA | 84 | ND<10 | ND<10 | ND<10 | 130 | NA | |
| GW-6 | 11/14/2001 | 1900 | 11J | 5.6J | 260 | 58 | NA | 53 | ND<10 | ND<10 | ND<10 | 57J | NA | |
| GW-6 | 2/13/2002 | 2300 | 11J | 10J | 260 | 65 | NA | 39 | ND<10 | ND<10 | ND<10 | ND<50 | NA | |
| GW-6 | 5/8/2002 | 2700 | 12J | 12J | 350 | 92 | NA | 43 | ND<8.0 | ND<8.0 | ND<8.0 | 48J | NA | |
| GW-6 | 8/13/2002 | 1900 | 3.8J | 4.7J | 140 | 43 | NA | 21 | ND<4.0 | ND<4.0 | ND<4.0 | ND<20 | NA | |
| GW-6 | 10/28/2002 | 1700 | 3.0J | 4.2J | 170 | 46 | NA | 19 | ND<4.0 | ND<4.0 | ND<4.0 | ND<20 | NA | |
| GW-6 | 1/22/2003 | 1100 | ND<2.0 | 2.5J | 130 | 27 | NA | 17 | ND<4.0 | ND<4.0 | ND<4.0 | ND<20 | ND<100 | |
| GW-6 | 4/14/2003 | 1100 | ND<2.0 | 2.2J | 140 | 25 | NA | 14 | ND<4.0 | ND<4.0 | ND<4.0 | ND<20 | ND<100 | |
| GW-6 | 7/9/2003 | 690 | ND<2.0 | ND<2.0 | 93 | 13 | NA | 7.3J | ND<4.0 | ND<4.0 | ND<4.0 | ND<20 | ND<100 | |

# TABLE 2
## HISTORICAL GROUNDWATER ANALYTICAL RESULTS
### ARCO Facility No. 6176
### 1001 E. Amar Rd.
### West Covina, CA

| Well | Date Sampled | TPHg (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-Benzene (µg/L) | Xylenes (µg/L) | MTBE 8020/8021B (µg/L) | MTBE 8260B (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | TBA (µg/L) | Ethanol (µg/L) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GW-6 | 10/2/2003 | 320 | ND<2.0 | ND<2.0 | 150 | 22 | NA | 9.1J | ND<4.0 | ND<4.0 | ND<4.0 | ND<20 | ND<100 | |
| GW-6 | 1/6/2004 | 1200 | ND<2.0 | ND<2.0 | 130 | 18 | NA | 8.5J | ND<4.0 | ND<4.0 | ND<4.0 | ND<20 | ND<100 | |
| GW-6 | 5/5/2004 | 820 | ND<2.0 | ND<2.0 | 110 | 14 | NA | 4.9J | ND<4.0 | ND<4.0 | ND<4.0 | ND<20 | ND<100 | |
| GW-6 | 9/2/2004 | 1100 | ND<2.0 | ND<2.0 | 130 | 19 | NA | 4.9J | ND<4.0 | ND<4.0 | ND<4.0 | ND<20 | ND<100 | |
| GW-6 | 12/9/2004 | 450 | ND<1.0 | ND<1.0 | 47 | 4.4J | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<100 | |
| GW-6 | 3/10/2005 | 220 | ND<1.0 | ND<1.0 | 12 | 1.2J | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<100 | |
| GW-7 | 3/18/1996 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | NA | NA | NA | NA | NA | NA | NA | |
| GW-7 | 6/6/1996 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| GW-7 | 9/25/1996 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| GW-7 | 12/13/1996 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| GW-7 | 2/27/1997 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| GW-7 | 5/19/1997 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| GW-7 | 7/28/1997 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| GW-7 | 10/27/1997 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| GW-7 | 3/18/1998 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| GW-7 | 6/26/1998 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| GW-7 | 8/27/1998 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| GW-7 | 12/17/1998 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| GW-7 | 3/23/1999 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| GW-7 | 5/25/1999 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | NA | ND<5.0 | NA | NA | NA | NA | NA | |
| GW-7 | 8/24/1999 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | NA | ND<5.0 | NA | NA | NA | NA | NA | |
| GW-7 | 12/9/1999 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | NA | ND<5.0 | NA | NA | NA | NA | NA | |
| GW-7 | 2/22/2000 | ND<9.3 | ND<0.11 | ND<0.093 | ND<0.18 | ND<0.83 | NA | ND<0.28 | ND<1.0 | ND<1.4 | ND<1.6 | ND<24 | NA | |
| GW-7 | 5/22/2000 | 8.6J | ND<0.11 | ND<0.093 | ND<0.18 | ND<0.82 | NA | ND<0.28 | ND<0.50 | ND<0.57 | ND<0.68 | ND<5.0 | NA | |
| GW-7 | 8/24/2000 | 25J | ND<0.11 | ND<0.093 | ND<0.18 | ND<0.82 | NA | ND<0.28 | ND<0.50 | ND<0.57 | ND<0.68 | ND<5.0 | NA | |
| GW-7 | 11/14/2000 | ND<6.6 | ND<0.11 | ND<0.093 | ND<0.18 | ND<0.82 | NA | ND<0.28 | ND<0.50 | ND<0.57 | ND<0.68 | ND<5.0 | NA | |
| GW-7 | 2/12/2001 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-7 | 5/30/2001 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-7 | 8/14/2001 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-7 | 11/14/2001 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-7 | 2/13/2002 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-7 | 5/8/2002 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-7 | 8/13/2002 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-7 | 10/28/2002 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| GW-7 | 1/22/2003 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| GW-7 | 4/14/2003 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |

# TABLE 2

## HISTORICAL GROUNDWATER ANALYTICAL RESULTS

## ARCO Facility No. 6176
## 1001 E. Amar Rd.
## West Covina, CA

| Well | Date Sampled | TPHg (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-Benzene (µg/L) | Xylenes (µg/L) | MTBE 8020/8021B (µg/L) | MTBE 8260B (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | TBA (µg/L) | Ethanol (µg/L) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GW-7 | 7/9/2003 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| GW-7 | 10/2/2003 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| GW-7 | 1/6/2004 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| GW-7 | 5/5/2004 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| GW-7 | 9/2/2004 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| GW-7 | 12/9/2004 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<100 | |
| GW-7 | 3/10/2005 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<100 | |
| Trip Blank | 3/18/1996 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | NA | NA | NA | NA | NA | NA | NA | |
| Trip Blank | 6/6/1996 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| Trip Blank | 9/25/1996 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| Trip Blank | 12/13/1996 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| Trip Blank | 2/27/1997 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| Trip Blank | 3/18/1998 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| Trip Blank | 6/26/1998 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| Trip Blank | 8/27/1998 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| Trip Blank | 12/17/1998 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| Trip Blank | 3/23/1999 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | ND<10 | NA | NA | NA | NA | NA | NA | |
| Trip Blank | 5/25/1999 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | NA | ND<5.0 | NA | NA | NA | NA | NA | |
| Trip Blank | 8/24/1999 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | NA | ND<5.0 | NA | NA | NA | NA | NA | |
| Trip Blank | 12/9/1999 | ND<50 | ND<0.30 | ND<0.30 | ND<0.30 | ND<0.60 | NA | ND<5.0 | NA | NA | NA | NA | NA | |
| Trip Blank | 2/22/2000 | ND<9.3 | ND<0.11 | ND<0.093 | ND<0.18 | ND<0.83 | NA | ND<0.28 | ND<1.0 | ND<1.4 | ND<1.6 | ND<24 | NA | |
| Trip Blank | 5/22/2000 | 14J | ND<0.11 | 0.14J | ND<0.18 | ND<0.82 | NA | ND<0.28 | ND<0.50 | ND<0.57 | ND<0.68 | ND<5.0 | NA | |
| Trip Blank | 8/24/2000 | 29J | ND<0.11 | ND<0.093 | ND<0.18 | ND<0.82 | NA | ND<0.28 | ND<0.50 | ND<0.57 | ND<0.68 | ND<5.0 | NA | |
| Trip Blank | 11/14/2000 | 40J | 0.18J | 0.36J | 0.33J | 1.1J | NA | ND<0.28 | ND<0.50 | ND<0.57 | ND<0.68 | ND<5.0 | NA | |
| Trip Blank | 2/12/2001 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| Trip Blank | 5/30/2001 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| Trip Blank | 8/14/2001 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| Trip Blank | 11/14/2001 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| Trip Blank | 2/13/2002 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| Trip Blank | 5/8/2002 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| Trip Blank | 8/13/2002 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| Trip Blank | 10/28/2002 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | NA | |
| Trip Blank | 1/22/2003 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| Trip Blank | 4/14/2003 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| Trip Blank | 7/9/2003 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| Trip Blank | 10/2/2003 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |

# TABLE 2

## HISTORICAL GROUNDWATER ANALYTICAL RESULTS

## ARCO Facility No. 6176
## 1001 E. Amar Rd.
## West Covina, CA

| Well | Date Sampled | TPHg (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-Benzene (µg/L) | Xylenes (µg/L) | MTBE 8020/8021B (µg/L) | MTBE 8260B (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | TBA (µg/L) | Ethanol (µg/L) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Trip Blank | 1/6/2004 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| Trip Blank | 5/5/2004 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| Trip Blank | 9/2/2004 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<50 | |
| Trip Blank | 12/9/2004 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<100 | |
| Trip Blank | 3/10/2005 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | NA | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<10 | ND<100 | |

**Notes:** TPHg = Total petroleum hydrocarbons as gasoline

µg/L = Micrograms per liter
MTBE = Methyl tertiary butyl ether
DIPE = Di-isopropyl ether
ETBE = Ethyl tertiary butyl ether
TAME = Tertiary amyl methyl ether
TBA = Tertiary butanol
NA = Not analyzed
ND<0.30 = Not detected at or above the stated laboratory method detection limit

Beginning first quarter 2000 benzene, toluene, ethylbenzene, and xylenes analyzed by Environmental Protection Agency Method 8260B

J= Concentrations at or above the method detection limit but below the reporting limit.

Note: DIPE, ETBE, TAME, TBA, and Ethanol analyses by EPA 8260

TABLE 3

NATURAL BIOATTENUATION REMEDIATION ANALYTICAL RESULTS
ARCO FACILITY NO. 6176
1001 EAST AMAR ROAD
WEST COVINA, CALIFORNIA

| Well I.D. | Date Sampled | Methane mg/l | Dissolved Oxygen (Lab) mg/l | Dissolved Oxygen (Field) mg/l | Ferrous Iron mg/l | Nitrate-N mg/l | Redox mV | Sulfate mg/l | pH | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| BC-1 | 12/09/04 | 6.1 | 3 | NA | 0.35 | ND<0.11 | 220 | 0.53 | 6.77 | |
| BC-1 | 03/10/05 | 0.16 | 2.9 | 1.41 | 0.40 | 1.5 | 400 | 72 | 7.13 | |
| GW-3 | 12/09/04 | ND<0.050 | 3 | NA | 0.35 | 7.1 | 410 | 120 | 6.55 | |
| GW-3 | 03/10/05 | ND<0.050 | 4.5 | 3.01 | ND<0.10 | 6.4 | 270 | 110 | 7.07 | |
| Trip Blank | 03/10/05 | ND<0.050 | | | | | | | | |

NOTES:

| | |
|---|---|
| Methane | = Analyzed by Method RSK-175 Modified |
| mg/l | = Milligrams per liter |
| Dissolved Oxygen (Lab) | = Analylzed by EPA Method 360.1 |
| Dissolved Oxygen (Field) | = Field instrument |
| Ferrous Iron | = Analyzed by EPA Method 6010 |
| Nitrate-N | = Analyzed by EPA Method 300.0 |
| Redox | = Analyzed by SM 2580B |
| mV | = Millivolts |
| Sulfate | = Analyzed by EPA Method 300.0 |
| NA | = Not analyzed |
| ND<0.5 | = Analyte was not detected at or above the stated laboratory detection limit |

(q:\bpwest\socal\6176\1stqtr05tbl3.xls)

# ATTACHMENT A

Sampling Information Sheets

DELTA ENVIRONMENTAL CONSULTANTS

# GROUNDWATER GAUGING DATA

Facility No.: Arco 6176 | Date: 3/10/05

Facility Location: West Covina | Technician: Brian Johnson

Project Manager: P. Mc Carter | Project No.: ~~00~~ G0CCB-RP51

| Gauging Order | Well I.D. | Time | Total Depth (feet) | Depth to Water (feet) | Depth to LPH (feet) | LPH Apparent Thickness (feet) | Gauge or Sample (G or S) | Physical Observations / DO Comments |
|---|---|---|---|---|---|---|---|---|
| 1 | BC-17 | 0546 | 34.99 | 33.97 | | | S | 3.16 No Purge 1450 Clear |
| 2 | BC-18 | 0554 | 34.15 | 26.81 | | | ↓ | 2.76 |
| 11 | GW-7 | 1350 | 49.98 | 21.04 | | | | 2.41 |
| 3 | GW-1 | 0606 | 49.78 | 21.64 | | | | 1.96 |
| 4 | GW-3 | 0611 | 48.72 | 22.82 | | | | 3.01 |
| 5 | GW-4 | 0616 | 49.24 | 24.90 | | | | 3.13 |
| 6 | BC-2 | 0628 | 34.75 | 25.13 | | | | 2.50 |
| 10 | GW-6 | 1240 | 48.93 | 23.53 | | | | 3.19 |
| 7 | GW-2 | 0640 | 50.41 | 23.94 | | | | 3.46 |
| 8 | GW-5 | 0645 | 50.16 | 24.09 | | | | 2.21 |
| 9 | BC-1 | 0650 | 34.59 | 23.38 | | | | 1.41 |

Decon Method: triple rinse | Measuring Device: Solinst

Notes:

DELTA ENVIRONMENTAL CONSULTANTS, INC.

# GROUNDWATER SAMPLING INFORMATION SHEET

**WEATHER CONDITIONS:**
Cloud Cover: Cloudy
Wind Speed: Slight
Temperature: 62°

**PROJECT:**
Date: 3/10/05
Site: ARCO 6176
Address: West Covina
Delta PM: P. McCarter

**WELL DESCRIPTION:**
Well I.D.: GW-3
Casing Diameter: 4"
Depth to Water: 22.82 Time: 0611
Total Depth of Well: 48.72

**PURGING METHOD:** [X] VACUUM TRUCK [ ] OTHER _____

**[(Well Depth - (DTW)] X (Casing Variable) = Case Volume (gal) X (# Volumes) = Total Gallons Pr**

[(48.72) - (22.82)] X (4") = .65 X (4) = 67 Gallc

Casing variables: 1" = 0.04, 2" = 0.16, 3" = 0.37, 4" = 0.65, 5" = 1.02, 6" = 1.47, 8" = 2.61, 10" = 4.08, 12" = 5.87

**PURGING / STABILIZATION TEST DATA**

| Time (24hr) | pH (pH units) | Temp. Corrected Conductance (ms/cm) | Temperature (°F) | Turbidity (NTUs) | Cummulative Water Purged (gallons) | Pump Rat (gpn |
|---|---|---|---|---|---|---|
| 0704 | 7.77 | 1270 | 68.7 | 36.4 | 0 | |
| 0710 | 7.77 | 1250 | 67.9 | 30.5 | 17 | |
| 0716 | 7.72 | 1246 | 68.3 | 22.1 | 34 | |
| 0723 | 7.75 | 1220 | 68.1 | 24.7 | 51 | |
| 0731 | 7.76 | 1240 | 68.4 | 20.2 | 67 | |

**SAMPLING:**
Sample I.D.: GW-3 Time: 1000
Bottle set:
80% Water Level: 28.00
Sample Appearance: clear
Sampling Water Level: 22.82

**D.O.:** _____ mg/L D.O. Measuring Device:

**COMMENTS:**

**TRANSPORTATION (Thermal preservation):** ICE

**SAMPLED BY:** B. Johnson DATE: 3/10/05

DELTA ENVIRONMENTAL CONSULTANTS, INC.

# GROUNDWATER SAMPLING INFORMATION SHEET

**WEATHER CONDITIONS:**
Cloud Cover: Cloudy
Wind Speed: Slight
Temperature: 62°

**PROJECT:**
Date: 3/10/05
Site: ARCO 6176
Address: West Covina
Delta PM: P. McCarter

**WELL DESCRIPTION:**
Well I.D.: GW-1
Casing Diameter: 4"
Depth to Water: 21.64 Time: 0606
Total Depth of Well: 49.78

**PURGING METHOD:** [X] VACUUM TRUCK [ ] OTHER _____

[(Well Depth - (DTW)] X (Casing Variable) = Case Volume (gal) X (# Volumes) = Total Gallons Pu

[(49.78) - (21.64)] X (4") = .65 X (4) = 73 Gallo

Casing variables: 1" = 0.04, 2" = 0.16, 3" = 0.37, 4" = 0.65, 5" = 1.02, 6" = 1.47, 8" = 2.61, 10" = 4.08, 12" = 5.87

**PURGING / STABILIZATION TEST DATA**

| Time (24hr) | pH (pH units) | Temp. Corrected Conductance (ms/cm) | Temperature (°F) | Turbidity (NTUs) | Cummulative Water Purged (gallons) | Pump Rat (gpn |
|---|---|---|---|---|---|---|
| 0740 | 7.80 | 1270 | 68.9 | 55.0 | 0 | |
| 0744 | 7.78 | 1190 | 68.5 | 43.2 | 18 | |
| 0749 | 7.81 | 1090 | 67.9 | 49.6 | 36 | |
| 0755 | 7.81 | 1130 | 68.2 | 52.1 | 54 | |
| 0802 | 7.79 | 1110 | 68.1 | 47.4 | 73 | |

**SAMPLING:**
Sample I.D.: GW-1 Time: 1020
Bottle set: 5 80% Water Level: 27.27
Sample Appearance: Clear Sampling Water Level: 21.65

**D.O.:** _____ mg/L D.O. Measuring Device:

**COMMENTS:**

**TRANSPORTATION (Thermal preservation):** ICE

**SAMPLED BY:** B. Johnson **DATE:** 3/10/05

DELTA ENVIRONMENTAL CONSULTANTS, INC.

# GROUNDWATER SAMPLING INFORMATION SHEET

**WEATHER CONDITIONS:**
Cloud Cover: Cloudy
Wind Speed: Slight
Temperature: 65°

**PROJECT:**
Date: 3/10/05
Site: ARCO 6176
Address: West Covina
Delta PM: P. McCarter

**WELL DESCRIPTION:**
Well I.D.: GW-4
Casing Diameter: 4"
Depth to Water: 24.90 Time: 0616
Total Depth of Well: 49.24

**PURGING METHOD:** [X] VACUUM TRUCK [ ] OTHER _____

**[(Well Depth - (DTW)] X (Casing Variable) = Case Volume (gal) X (# Volumes) = Total Gallons Pu**

[(49.24) - (24.90)] X (4") = .65 X (4) = 6.3 Gallo

Casing variables: 1" = 0.04, 2" = 0.16, 3" = 0.37, 4" = 0.65, 5" = 1.02, 6" = 1.47, 8" = 2.61, 10" = 4.08, 12" = 5.87

**PURGING / STABILIZATION TEST DATA**

| Time (24hr) | pH (pH units) | Temp. Corrected Conductance (ms/cm) | Temperature (°F) | Turbidity (NTUs) | Cummulative Water Purged (gallons) | Pumpi Rate (gpm |
|---|---|---|---|---|---|---|
| 0810 | 7.74 | 1290 | 69.1 | 21.7 | 0 | |
| 0818 | 7.76 | 1250 | 69.4 | 23.5 | 16 | |
| 0828 | 7.74 | 1230 | 68.7 | 20.1 | 32 | |
| 0840 | 7.75 | 1200 | 68.5 | 19.0 | 48 | |
| 0854 | 7.74 | 1220 | 69.6 | 17.5 | 63 | |

**SAMPLING:**
Sample I.D.: GW-4 Time: 1044
Bottle set: 5 80% Water Level: 29.77
Sample Appearance: clear Sampling Water Level: 24.97

**D.C.:** _____ mg/L **D.O. Measuring Device:** _____

**COMMENTS:**

**TRANSPORTATION (Thermal preservation):** ICE

**SAMPLED BY:** B. Johnson **DATE:** 3/10/05

DELTA ENVIRONMENTAL CONSULTANTS, INC.

# GROUNDWATER SAMPLING INFORMATION SHEET

**WEATHER CONDITIONS:**
Cloud Cover: Clear
Wind Speed: slight
Temperature: 76°

**PROJECT:**
Date: 3/10/05
Site: ARCO 6176
Address: West Covina
Delta PM: P. McCarter

**WELL DESCRIPTION:**
Well I.D.: GW-6
Casing Diameter: 4"
Depth to Water: 23.53 Time: 1246
Total Depth of Well: 48.93

**PURGING METHOD:** [X] VACUUM TRUCK [ ] OTHER _____

**[(Well Depth - (DTW)] X (Casing Variable) = Case Volume (gal) X (# Volumes) = Total Gallons Pu**

[(48.93) - (23.53)] X (4") = .65 X (4) = 66 Gallo

Casing variables: 1" = 0.04, 2" = 0.16, 3" = 0.37, 4" = 0.65, 5" = 1.02, 6" = 1.47, 8" = 2.61, 10" = 4.08, 12" = 5.87

**PURGING / STABILIZATION TEST DATA**

| Time (24hr) | pH (pH units) | Temp. Corrected Conductance (ms/cm) | Temperature (°F) | Turbidity (NTUs) | Cummulative Water Purged (gallons) | Pump Rat (gpm |
|---|---|---|---|---|---|---|
| 1240 | 7.62 | 1270 | 71.9 | 29.1 | 0 | |
| 1247 | 7.64 | 1290 | 71.5 | 24.5 | 17 | |
| 1256 | 7.66 | 1310 | 72.1 | 20.6 | 34 | |
| 1306 | 7.69 | 1350 | 71.1 | 19.6 | 51 | |
| 1318 | 7.68 | 1310 | 71.8 | 27.4 | 66 | |

**SAMPLING:**
Sample I.D.: GW-6
Time: 1330
Bottle set: 5
80% Water Level: 28.61
Sample Appearance: Clear
Sampling Water Level: 23.87

**D.C.:** _____ mg/L

**D.O. Measuring Device:** _____

**COMMENTS:**

**TRANSPORTATION (Thermal preservation):** ICE

**SAMPLED BY:** B. Johnson

**DATE:** 3/10/05

DELTA ENVIRONMENTAL CONSULTANTS, INC.

# GROUNDWATER SAMPLING INFORMATION SHEET

**WEATHER CONDITIONS:**
Cloud Cover: Clear
Wind Speed: Slight
Temperature: 76°

**PROJECT:**
Date: 3/10/05
Site: ARCO 6176
Address: West Covina
Delta PM: P. McCarter

**WELL DESCRIPTION:**
Well I.D.: GW-7
Casing Diameter: 4"
Depth to Water: 21.04 Time: 1350
Total Depth of Well: 49.98

**PURGING METHOD:** [X] VACUUM TRUCK [ ] OTHER _____

**[(Well Depth - (DTW)] X (Casing Variable) = Case Volume (gal) X (# Volumes) = Total Gallons Pr**

[(49.98) - (21.04)] X (4") = .65 X (4) = 75 Gallc

Casing variables: 1" = 0.04, 2" = 0.16, 3" = 0.37, 4" = 0.65, 5" = 1.02, 6" = 1.47, 8" = 2.61, 10" = 4.08, 12" = 5.87

**PURGING / STABILIZATION TEST DATA**

| Time (24hr) | pH (pH units) | Temp. Corrected Conductance (ms/cm) | Temperature (°F) | Turbidity (NTUs) | Cummulative Water Purged (gallons) | Pump Rat (gpn |
|---|---|---|---|---|---|---|
| 1354 | 7.64 | 1250 | 71.6 | 24.7 | 0 | |
| 1359 | 7.71 | 1250 | 71.4 | 27.1 | 19 | |
| 1405 | 7.71 | 1260 | 72.3 | 26.5 | 38 | |
| 1412 | 7.73 | 1316 | 71.8 | 19.5 | 57 | |
| 1420 | 7.72 | 1290 | 72.0 | 20.9 | 75 | |

**SAMPLING:**
Sample I.D.: GW-7 Time: 1430
Bottle set: 5 80% Water Level: 26.83
Sample Appearance: Clear Sampling Water Level: 26.41

**D.C.:** _____ mg/L **D.O. Measuring Device:** _____

**COMMENTS:**

**TRANSPORTATION (Thermal preservation):** ICE

**SAMPLED BY:** B. Johnson **DATE:** 3/10/05

DELTA ENVIRONMENTAL CONSULTANTS, INC.

# GROUNDWATER SAMPLING INFORMATION SHEET

**WEATHER CONDITIONS:**
Cloud Cover: Clear
Wind Speed: Slight
Temperature: 74°

**PROJECT:**
Date: 3/10/05
Site: ARCO 6176
Address: West Covina
Delta PM: P. McCarter

**WELL DESCRIPTION:**
Well I.D.: BC-18
Casing Diameter: 4"
Depth to Water: 26.81 Time: 0554
Total Depth of Well: 34.15

**PURGING METHOD:** [X] VACUUM TRUCK [ ] OTHER _____

[(Well Depth - (DTW)] X (Casing Variable) = Case Volume (gal) X (# Volumes) = Total Gallons Pu

[(34.51) - (26.81)] X (4") = .65 X (4) = 20 Gallo

Casing variables: 1" = 0.04, 2" = 0.16, 3" = 0.37, 4" = 0.65, 5" = 1.02, 6" = 1.47, 8" = 2.61, 10" = 4.08, 12" = 5.87

**PURGING / STABILIZATION TEST DATA**

| Time (24hr) | pH (pH units) | Temp. Corrected Conductance (ms/cm) | Temperature (°F) | Turbidity (NTUs) | Cummulative Water Purged (gallons) | Pump Rat (gpn |
|---|---|---|---|---|---|---|
| 1135 | 7.58 | 1340 | 71.2 | 56.2 | 0 | |
| 1139 | 7.60 | 1290 | 72.0 | 44.7 | 7 | |
| 1155 | 7.67 | 1190 | 71.8 | 50.3 | 13 | |
| | | | | | | |
| | | | | | | |

**SAMPLING:**
Sample I.D.: BC-18 Time: 1502
Bottle set: 5 80% Water Level: 28.35
Sample Appearance: Clear Sampling Water Level: 26.91

**D.O.:** _____ mg/L D.O. Measuring Device: _____

**COMMENTS:**

**TRANSPORTATION (Thermal preservation):** ICE

**SAMPLED BY:** B. Johnson **DATE:** 3/10/05

DELTA ENVIRONMENTAL CONSULTANTS, INC.

# GROUNDWATER SAMPLING INFORMATION SHEET

**WEATHER CONDITIONS:**
Cloud Cover: clear
Wind Speed: slight
Temperature: 76°

**PROJECT:**
Date: 3/10/05
Site: ARCO 6176
Address: West Covina
Delta PM: P. McCarter

**WELL DESCRIPTION:**
Well I.D.: BC-2
Casing Diameter: 4"
Depth to Water: 25.13 Time: 0628
Total Depth of Well: 34.75

**PURGING METHOD:** [X] VACUUM TRUCK [ ] OTHER _____

**[(Well Depth - (DTW)] X (Casing Variable) = Case Volume (gal) X (# Volumes) = Total Gallons Pu**

[(34.75) - (25.13)] X (4") = .65 X (4) = 2.5 Gallo

Casing variables: 1" = 0.04, 2" = 0.16, 3" = 0.37, 4" = 0.65, 5" = 1.02, 6" = 1.47, 8" = 2.61, 10" = 4.08, 12" = 5.87

**PURGING / STABILIZATION TEST DATA**

| Time (24hr) | pH (pH units) | Temp. Corrected Conductance (ms/cm) | Temperature (°F) | Turbidity (NTUs) | Cummulative Water Purged (gallons) | Pump Rat (gpn |
|---|---|---|---|---|---|---|
| 1206 | 7.50 | 1440 | 70.6 | 29.4 | 0 | |
| 1209 | 7.58 | 1290 | 70.8 | 36.1 | 6 | |
| 1212 | 7.61 | 1060 | 71.4 | 40.2 | 12 | |
| 1215 | 7.62 | 1010 | 71.1 | 32.3 | 18 | |
| 1218 | 7.65 | 980 | 71.0 | 37.7 | 25 | |

**SAMPLING:**
Sample I.D.: BC-2
Time: 1512
Bottle set: 5
80% Water Level: 27.05
Sample Appearance: clear
Sampling Water Level: 25.54

**D.O.:** _____ mg/L
D.O. Measuring Device:

**COMMENTS:**

**TRANSPORTATION (Thermal preservation):** ICE

**SAMPLED BY:** B. Johnson
**DATE:** 3/10/05

DELTA ENVIRONMENTAL CONSULTANTS, INC.

# GROUNDWATER SAMPLING INFORMATION SHEET

**WEATHER CONDITIONS:**
Cloud Cover: cloudy
Wind Speed: Slight
Temperature: 66°

**PROJECT:**
Date: 3/10/05
Site: ARCO 6176
Address: West Covina
Delta PM: P. McCarter

**WELL DESCRIPTION:**
Well I.D.: GW-2
Casing Diameter: 4"
Depth to Water: 23.94 Time: 0640
Total Depth of Well: 50.04

**PURGING METHOD:** [X] VACUUM TRUCK [ ] OTHER _____

**[(Well Depth - (DTW)] X (Casing Variable) = Case Volume (gal) X (# Volumes) = Total Gallons Pu**

[(50.04) - (23.94)] X (4") = .65 X (4) = 68 Gallo

Casing variables: 1" = 0.04, 2" = 0.16, 3" = 0.37, 4" = 0.65, 5" = 1.02, 6" = 1.47, 8" = 2.61, 10" = 4.08, 12" = 5.87

**PURGING / STABILIZATION TEST DATA**

| Time (24hr) | pH (pH units) | Temp. Corrected Conductance (ms/cm) | Temperature (°F) | Turbidity (NTUs) | Cummulative Water Purged (gallons) | Pump Rat (gpn |
|---|---|---|---|---|---|---|
| 0902 | 7.69 | 1240 | 69.5 | 42.7 | 0 | |
| 0910 | 7.70 | 1260 | 69.2 | 46.5 | 17 | |
| 0920 | 7.71 | 1280 | 69.9 | 35.1 | 34 | |
| 0931 | 7.74 | 1250 | 69.3 | 33.9 | 51 | |
| 0944 | 7.71 | 1270 | 70.1 | 28.7 | 68 | |

**SAMPLING:**
Sample I.D.: GW-2 Time: 1530
Bottle set: 5 80% Water Level: 29.16
Sample Appearance: clear Sampling Water Level: 24.11

**D.C.:** _____ mg/L **D.O. Measuring Device:**

**COMMENTS:**

**TRANSPORTATION (Thermal preservation):** ICE

**SAMPLED BY:** B. Johnson **DATE:** 3/10/05

DELTA ENVIRONMENTAL CONSULTANTS, INC.

# GROUNDWATER SAMPLING INFORMATION SHEET

**WEATHER CONDITIONS:**
Cloud Cover: Cloudy
Wind Speed: slight
Temperature: 70°

**PROJECT:**
Date: 3/10/05
Site: ARCO 6176
Address: West Covina
Delta PM: P. McCarter

**WELL DESCRIPTION:**
Well I.D.: GW-5
Casing Diameter: 4"
Depth to Water: 24.09 Time: 0645
Total Depth of Well: 50.16

**PURGING METHOD:** [X] VACUUM TRUCK [ ] OTHER _____

**[(Well Depth - (DTW)] X (Casing Variable) = Case Volume (gal) X (# Volumes) = Total Gallons Pu**

[(50.16) - (24.09)] X (4") = .65 X (4) = 6.8 Gallo

Casing variables: 1" = 0.04, 2" = 0.16, 3" = 0.37, 4" = 0.65, 5" = 1.02, 6" = 1.47, 8" = 2.61, 10" = 4.08, 12" = 5.87

**PURGING / STABILIZATION TEST DATA**

| Time (24hr) | pH (pH units) | Temp. Corrected Conductance (ms/cm) | Temperature (°F) | Turbidity (NTUs) | Cummulative Water Purged (gallons) | Pump Rat (gpm |
|---|---|---|---|---|---|---|
| 0952 | 7.71 | 1250 | 70.0 | 19.4 | 0 | |
| 0959 | 7.69 | 1240 | 69.7 | 22.9 | 17 | |
| 1012 | 7.70 | 1250 | 69.9 | 20.6 | 34 | |
| 1026 | 7.72 | 1260 | 70.2 | 18.7 | 51 | |
| 1044 | 7.73 | 1280 | 69.4 | 17.1 | 60 | |

**SAMPLING:**
Sample I.D.: GW-5 Time: 1540
Bottle set: 5 80% Water Level: 29.30
Sample Appearance: clear Sampling Water Level: 24.11

**D.O.:** _____ mg/L **D.O. Measuring Device:** _____

**COMMENTS:** Well went dry

**TRANSPORTATION (Thermal preservation):** ICE

**SAMPLED BY:** B. Johnson **DATE:** 3/10/05

DELTA ENVIRONMENTAL CONSULTANTS, INC.

# GROUNDWATER SAMPLING INFORMATION SHEET

**WEATHER CONDITIONS:**
Cloud Cover: Partial
Wind Speed: slight
Temperature: 72°

**PROJECT:**
Date: 3/10/05
Site: ARCO 6176
Address: West Covina
Delta PM: P. McCarter

**WELL DESCRIPTION:**
Well I.D.: BC-1
Casing Diameter: 4"
Depth to Water: 23.38 Time: 0650
Total Depth of Well: 34.59

**PURGING METHOD:** [X] VACUUM TRUCK [ ] OTHER _____

**[(Well Depth - (DTW)] X (Casing Variable) = Case Volume (gal) X (# Volumes) = Total Gallons Pu**

[(34.59) - (23.38)] X (4") = .65 X (4) = 29 Gallo

Casing variables: 1" = 0.04, 2" = 0.16, 3" = 0.37, 4" = 0.65, 5" = 1.02, 6" = 1.47, 8" = 2.61, 10" = 4.08, 12" = 5.87

**PURGING / STABILIZATION TEST DATA**

| Time (24hr) | pH (pH units) | Temp. Corrected Conductance (ms/cm) | Temperature (°F) | Turbidity (NTUs) | Cummulative Water Purged (gallons) | Pump Rat (gpn |
|---|---|---|---|---|---|---|
| 1052 | 7.60 | 1220 | 70.5 | 64.5 | 0 | |
| 1056 | 7.60 | 1200 | 70.1 | 39.5 | 7 | |
| 11 02 | 7.61 | 1200 | 70.7 | 40.9 | 14 | |
| 1116 | 7.64 | 1980 | 69.9 | 56.5 | 20 | |
| | | | | | | |

**SAMPLING:**
Sample I.D.: BC-1 Time: 1600
Bottle set: 5 80% Water Level: 25.62
Sample Appearance: clear Sampling Water Level: 23.42

**D.C.:** _____ mg/L D.O. Measuring Device: _____

**COMMENTS:** Well went dry

**TRANSPORTATION (Thermal preservation):** ICE

**SAMPLED BY:** B. Johnson **DATE:** 3/10/05

# ATTACHMENT B

Laboratory Report and Chain-of-Custody Documentation

Del Mar Analytical

17461 Derian Ave., Suite 100, Irvine, CA 92614 (949) 261-1022 FAX (949) 260-3297
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (949) 370-1046
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

# LABORATORY REPORT

Prepared For: Delta Env. Consultants - Aliso Viejo
27141 Aliso Creek Road, Suite 270
Aliso Viejo, CA 92656
Attention: Paul McCarter

Project: ARCO 6176, West Covina

Sampled: 03/10/05
Received: 03/10/05
Issued: 03/25/05 12:43

NELAP #01108CA California ELAP#1197 CSDLAC #10117

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of Del Mar Analytical and its client. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical. The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.*
*This entire report was reviewed and approved for release.*

## CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 2°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the Del Mar Analytical Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: Results that fall between the MDL and RL are 'J' flagged.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

| LABORATORY ID | CLIENT ID | MATRIX |
|---|---|---|
| IOC0880-01 | GW-3 | Water |
| IOC0880-02 | BC-1 | Water |
| IOC0880-03 | GW-4 | Water |
| IOC0880-04 | GW-6 | Water |
| IOC0880-05 | GW-7 | Water |
| IOC0880-06 | BC-17 | Water |
| IOC0880-07 | BC-18 | Water |
| IOC0880-08 | BC-2 | Water |
| IOC0880-09 | GW-2 | Water |
| IOC0880-10 | GW-5 | Water |
| IOC0880-11 | GW-1 | Water |

**Del Mar Analytical, Irvine**
Pat Abe
Project Manager

Del Mar Analytical

17461 Derian Ave., Suite 100, Irvine, CA 92614 (949) 261-1022 FAX (949) 260-3297
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (949) 370-1046
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Delta Env. Consultants - Aliso Viejo
27141 Aliso Creek Road, Suite 270
Aliso Viejo, CA 92656
Attention: Paul McCarter

Project ID: ARCO 6176, West Covina

Report Number: IOC0880

Sampled: 03/10/05
Received: 03/10/05

| LABORATORY ID | CLIENT ID | MATRIX |
|---|---|---|
| IOC0880-12 | TB | Water |

Reviewed By:

**Del Mar Analytical, Irvine**
Pat Abe
Project Manager

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Del Mar Analytical

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1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (949) 370-1046
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Delta Env. Consultants - Aliso Viejo
27141 Aliso Creek Road, Suite 270
Aliso Viejo, CA 92656
Attention: Paul McCarter

Project ID: ARCO 6176, West Covina

Report Number: IOC0880

Sampled: 03/10/05
Received: 03/10/05

## VOLATILE FUEL HYDROCARBONS (EPA 5030/CADHS Mod. 8015)

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| **Sample ID: IOC0880-01 (GW-3 - Water)** | | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | | |
| GRO (C4 - C12) | EPA 8015 Mod. | 5C18002 | 50 | 100 | ND | 1 | 03/18/05 | 03/18/05 | |
| *Surrogate: 4-BFB (FID) (65-140%)* | | | | | *82 %* | | | | |
| **Sample ID: IOC0880-02 (BC-1 - Water)** | | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | | |
| **GRO (C4 - C12)** | EPA 8015 Mod. | 5C18002 | 50 | 100 | **180** | 1 | 03/18/05 | 03/18/05 | |
| *Surrogate: 4-BFB (FID) (65-140%)* | | | | | *88 %* | | | | |
| **Sample ID: IOC0880-03 (GW-4 - Water)** | | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | | |
| GRO (C4 - C12) | EPA 8015 Mod. | 5C18002 | 50 | 100 | ND | 1 | 03/18/05 | 03/18/05 | |
| *Surrogate: 4-BFB (FID) (65-140%)* | | | | | *83 %* | | | | |
| **Sample ID: IOC0880-04 (GW-6 - Water)** | | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | | |
| **GRO (C4 - C12)** | EPA 8015 Mod. | 5C18002 | 50 | 100 | **220** | 1 | 03/18/05 | 03/18/05 | |
| *Surrogate: 4-BFB (FID) (65-140%)* | | | | | *76 %* | | | | |
| **Sample ID: IOC0880-05 (GW-7 - Water)** | | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | | |
| GRO (C4 - C12) | EPA 8015 Mod. | 5C18002 | 50 | 100 | ND | 1 | 03/18/05 | 03/18/05 | |
| *Surrogate: 4-BFB (FID) (65-140%)* | | | | | *83 %* | | | | |
| **Sample ID: IOC0880-06 (BC-17 - Water)** | | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | | |
| GRO (C4 - C12) | EPA 8015 Mod. | 5C18002 | 50 | 100 | ND | 1 | 03/18/05 | 03/18/05 | |
| *Surrogate: 4-BFB (FID) (65-140%)* | | | | | *85 %* | | | | |
| **Sample ID: IOC0880-07 (BC-18 - Water)** | | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | | |
| GRO (C4 - C12) | EPA 8015 Mod. | 5C18002 | 50 | 100 | ND | 1 | 03/18/05 | 03/18/05 | |
| *Surrogate: 4-BFB (FID) (65-140%)* | | | | | *82 %* | | | | |
| **Sample ID: IOC0880-08 (BC-2 - Water)** | | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | | |
| **GRO (C4 - C12)** | EPA 8015 Mod. | 5C18002 | 100 | 200 | **970** | 2 | 03/18/05 | 03/18/05 | |
| *Surrogate: 4-BFB (FID) (65-140%)* | | | | | *124 %* | | | | |

**Del Mar Analytical, Irvine**
Pat Abe
Project Manager

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Del Mar Analytical

17461 Derian Ave., Suite 100, Irvine, CA 92614 (949) 261-1022 FAX (949) 260-3297
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (949) 370-1046
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Delta Env. Consultants - Aliso Viejo
27141 Aliso Creek Road, Suite 270
Aliso Viejo, CA 92656
Attention: Paul McCarter

Project ID: ARCO 6176, West Covina

Report Number: IOC0880

Sampled: 03/10/05
Received: 03/10/05

## VOLATILE FUEL HYDROCARBONS (EPA 5030/CADHS Mod. 8015)

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| **Sample ID: IOC0880-09 (GW-2 - Water)** | | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | | |
| GRO (C4 - C12) | EPA 8015 Mod. | 5C21099 | 50 | 100 | ND | 1 | 03/21/05 | 03/21/05 | |
| *Surrogate: 4-BFB (FID) (65-140%)* | | | | | *88 %* | | | | |
| **Sample ID: IOC0880-10 (GW-5 - Water)** | | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | | |
| **GRO (C4 - C12)** | EPA 8015 Mod. | 5C18002 | 50 | 100 | **330** | 1 | 03/18/05 | 03/18/05 | |
| *Surrogate: 4-BFB (FID) (65-140%)* | | | | | *87 %* | | | | |
| **Sample ID: IOC0880-11 (GW-1 - Water)** | | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | | |
| GRO (C4 - C12) | EPA 8015 Mod. | 5C18108 | 50 | 100 | ND | 1 | 03/18/05 | 03/18/05 | |
| *Surrogate: 4-BFB (FID) (65-140%)* | | | | | *86 %* | | | | |
| **Sample ID: IOC0880-12 (TB - Water)** | | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | | |
| GRO (C4 - C12) | EPA 8015 Mod. | 5C18002 | 50 | 100 | ND | 1 | 03/18/05 | 03/18/05 | |
| *Surrogate: 4-BFB (FID) (65-140%)* | | | | | *81 %* | | | | |

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Pat Abe
Project Manager

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17461 Derian Ave., Suite 100, Irvine, CA 92614 (949) 261-1022 FAX (949) 260-3297
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (949) 370-1046
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Delta Env. Consultants - Aliso Viejo
27141 Aliso Creek Road, Suite 270
Aliso Viejo, CA 92656
Attention: Paul McCarter

Project ID: ARCO 6176, West Covina

Report Number: IOC0880

Sampled: 03/10/05
Received: 03/10/05

## BTEX/OXYGENATES by GC/MS (EPA 8260B)

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| **Sample ID: IOC0880-01 (GW-3 - Water)** | | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | | |
| Benzene | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| Ethylbenzene | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| Toluene | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| o-Xylene | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| m,p-Xylenes | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| Xylenes, Total | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| Di-isopropyl Ether (DIPE) | EPA 8260B | 5C11031 | 2.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| Ethyl tert-Butyl Ether (ETBE) | EPA 8260B | 5C11031 | 2.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| tert-Amyl Methyl Ether (TAME) | EPA 8260B | 5C11031 | 2.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 5C11031 | 2.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| tert-Butanol (TBA) | EPA 8260B | 5C11031 | 10 | 25 | ND | 1 | 03/11/05 | 03/11/05 | |
| Ethanol | EPA 8260B | 5C11031 | 100 | 150 | ND | 1 | 03/11/05 | 03/11/05 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | | *107 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | | *104 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | | *98 %* | | | | |
| **Sample ID: IOC0880-02 (BC-1 - Water)** | | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | | |
| Benzene | EPA 8260B | 5C13003 | 1.0 | 5.0 | ND | 1 | 03/13/05 | 03/13/05 | |
| **Ethylbenzene** | EPA 8260B | 5C13003 | 1.0 | 5.0 | **4.0** | 1 | 03/13/05 | 03/13/05 | J,DX |
| Toluene | EPA 8260B | 5C13003 | 1.0 | 5.0 | ND | 1 | 03/13/05 | 03/13/05 | |
| o-Xylene | EPA 8260B | 5C13003 | 1.0 | 5.0 | ND | 1 | 03/13/05 | 03/13/05 | |
| **m,p-Xylenes** | EPA 8260B | 5C13003 | 1.0 | 5.0 | **4.2** | 1 | 03/13/05 | 03/13/05 | J,DX |
| **Xylenes, Total** | EPA 8260B | 5C13003 | 1.0 | 5.0 | **4.7** | 1 | 03/13/05 | 03/13/05 | J,DX |
| Di-isopropyl Ether (DIPE) | EPA 8260B | 5C13003 | 2.0 | 5.0 | ND | 1 | 03/13/05 | 03/13/05 | |
| Ethyl tert-Butyl Ether (ETBE) | EPA 8260B | 5C13003 | 2.0 | 5.0 | ND | 1 | 03/13/05 | 03/13/05 | |
| tert-Amyl Methyl Ether (TAME) | EPA 8260B | 5C13003 | 2.0 | 5.0 | ND | 1 | 03/13/05 | 03/13/05 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 5C13003 | 2.0 | 5.0 | ND | 1 | 03/13/05 | 03/13/05 | |
| tert-Butanol (TBA) | EPA 8260B | 5C13003 | 10 | 25 | ND | 1 | 03/13/05 | 03/13/05 | |
| Ethanol | EPA 8260B | 5C13003 | 100 | 150 | ND | 1 | 03/13/05 | 03/13/05 | IO |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | | *104 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | | *104 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | | *101 %* | | | | |

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Pat Abe
Project Manager

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17461 Derian Ave., Suite 100, Irvine, CA 92614 (949) 261-1022 FAX (949) 260-3297
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9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Delta Env. Consultants - Aliso Viejo
27141 Aliso Creek Road, Suite 270
Aliso Viejo, CA 92656
Attention: Paul McCarter

Project ID: ARCO 6176, West Covina

Report Number: IOC0880

Sampled: 03/10/05
Received: 03/10/05

# BTEX/OXYGENATES by GC/MS (EPA 8260B)

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| **Sample ID: IOC0880-03 (GW-4 - Water)** | | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | | |
| Benzene | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| Ethylbenzene | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| Toluene | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| o-Xylene | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| m,p-Xylenes | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| Xylenes, Total | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| Di-isopropyl Ether (DIPE) | EPA 8260B | 5C11031 | 2.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| Ethyl tert-Butyl Ether (ETBE) | EPA 8260B | 5C11031 | 2.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| tert-Amyl Methyl Ether (TAME) | EPA 8260B | 5C11031 | 2.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 5C11031 | 2.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| tert-Butanol (TBA) | EPA 8260B | 5C11031 | 10 | 25 | ND | 1 | 03/11/05 | 03/11/05 | |
| Ethanol | EPA 8260B | 5C11031 | 100 | 150 | ND | 1 | 03/11/05 | 03/11/05 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | | *110 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | | *104 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | | *98 %* | | | | |
| **Sample ID: IOC0880-04 (GW-6 - Water)** | | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | | |
| Benzene | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| **Ethylbenzene** | EPA 8260B | 5C11031 | 1.0 | 5.0 | **12** | 1 | 03/11/05 | 03/11/05 | |
| Toluene | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| o-Xylene | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| **m,p-Xylenes** | EPA 8260B | 5C11031 | 1.0 | 5.0 | **1.2** | 1 | 03/11/05 | 03/11/05 | J,DX |
| **Xylenes, Total** | EPA 8260B | 5C11031 | 1.0 | 5.0 | **1.2** | 1 | 03/11/05 | 03/11/05 | J,DX |
| Di-isopropyl Ether (DIPE) | EPA 8260B | 5C11031 | 2.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| Ethyl tert-Butyl Ether (ETBE) | EPA 8260B | 5C11031 | 2.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| tert-Amyl Methyl Ether (TAME) | EPA 8260B | 5C11031 | 2.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 5C11031 | 2.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| tert-Butanol (TBA) | EPA 8260B | 5C11031 | 10 | 25 | ND | 1 | 03/11/05 | 03/11/05 | |
| Ethanol | EPA 8260B | 5C11031 | 100 | 150 | ND | 1 | 03/11/05 | 03/11/05 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | | *111 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | | *107 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | | *100 %* | | | | |

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Pat Abe
Project Manager

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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Delta Env. Consultants - Aliso Viejo
27141 Aliso Creek Road, Suite 270
Aliso Viejo, CA 92656
Attention: Paul McCarter

Project ID: ARCO 6176, West Covina

Report Number: IOC0880

Sampled: 03/10/05
Received: 03/10/05

# BTEX/OXYGENATES by GC/MS (EPA 8260B)

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| **Sample ID: IOC0880-05 (GW-7 - Water)** | | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | | |
| Benzene | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| Ethylbenzene | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| Toluene | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| o-Xylene | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| m,p-Xylenes | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| Xylenes, Total | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| Di-isopropyl Ether (DIPE) | EPA 8260B | 5C11031 | 2.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| Ethyl tert-Butyl Ether (ETBE) | EPA 8260B | 5C11031 | 2.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| tert-Amyl Methyl Ether (TAME) | EPA 8260B | 5C11031 | 2.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 5C11031 | 2.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| tert-Butanol (TBA) | EPA 8260B | 5C11031 | 10 | 25 | ND | 1 | 03/11/05 | 03/11/05 | |
| Ethanol | EPA 8260B | 5C11031 | 100 | 150 | ND | 1 | 03/11/05 | 03/11/05 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | | *113 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | | *105 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | | *97 %* | | | | |
| **Sample ID: IOC0880-06 (BC-17 - Water)** | | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | | |
| Benzene | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| Ethylbenzene | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| Toluene | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| o-Xylene | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| m,p-Xylenes | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| Xylenes, Total | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| Di-isopropyl Ether (DIPE) | EPA 8260B | 5C11031 | 2.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| Ethyl tert-Butyl Ether (ETBE) | EPA 8260B | 5C11031 | 2.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| tert-Amyl Methyl Ether (TAME) | EPA 8260B | 5C11031 | 2.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 5C11031 | 2.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| tert-Butanol (TBA) | EPA 8260B | 5C11031 | 10 | 25 | ND | 1 | 03/11/05 | 03/11/05 | |
| Ethanol | EPA 8260B | 5C11031 | 100 | 150 | ND | 1 | 03/11/05 | 03/11/05 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | | *113 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | | *106 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | | *98 %* | | | | |

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Pat Abe
Project Manager

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9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9689
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Delta Env. Consultants - Aliso Viejo
27141 Aliso Creek Road, Suite 270
Aliso Viejo, CA 92656
Attention: Paul McCarter

Project ID: ARCO 6176, West Covina

Report Number: IOC0880

Sampled: 03/10/05
Received: 03/10/05

## BTEX/OXYGENATES by GC/MS (EPA 8260B)

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| **Sample ID: IOC0880-07 (BC-18 - Water)** | | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | | |
| Benzene | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| Ethylbenzene | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| Toluene | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| o-Xylene | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| m,p-Xylenes | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| Xylenes, Total | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| Di-isopropyl Ether (DIPE) | EPA 8260B | 5C11031 | 2.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| Ethyl tert-Butyl Ether (ETBE) | EPA 8260B | 5C11031 | 2.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| tert-Amyl Methyl Ether (TAME) | EPA 8260B | 5C11031 | 2.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 5C11031 | 2.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| tert-Butanol (TBA) | EPA 8260B | 5C11031 | 10 | 25 | ND | 1 | 03/11/05 | 03/11/05 | |
| Ethanol | EPA 8260B | 5C11031 | 100 | 150 | ND | 1 | 03/11/05 | 03/11/05 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | | *114 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | | *108 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | | *97 %* | | | | |
| **Sample ID: IOC0880-08 (BC-2 - Water)** | | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | | |
| Benzene | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| Ethylbenzene | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| Toluene | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| o-Xylene | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| m,p-Xylenes | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| Xylenes, Total | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| Di-isopropyl Ether (DIPE) | EPA 8260B | 5C11031 | 2.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| Ethyl tert-Butyl Ether (ETBE) | EPA 8260B | 5C11031 | 2.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| tert-Amyl Methyl Ether (TAME) | EPA 8260B | 5C11031 | 2.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| **Methyl-tert-butyl Ether (MTBE)** | EPA 8260B | 5C11031 | 2.0 | 5.0 | **2.8** | 1 | 03/11/05 | 03/11/05 | J,DX |
| **tert-Butanol (TBA)** | EPA 8260B | 5C11031 | 10 | 25 | **14** | 1 | 03/11/05 | 03/11/05 | ID, J,DX |
| Ethanol | EPA 8260B | 5C11031 | 100 | 150 | ND | 1 | 03/11/05 | 03/11/05 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | | *108 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | | *107 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | | *104 %* | | | | |

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Pat Abe
Project Manager

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1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (949) 370-1046
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Delta Env. Consultants - Aliso Viejo
27141 Aliso Creek Road, Suite 270
Aliso Viejo, CA 92656
Attention: Paul McCarter

Project ID: ARCO 6176, West Covina

Report Number: IOC0880

Sampled: 03/10/05
Received: 03/10/05

# BTEX/OXYGENATES by GC/MS (EPA 8260B)

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| **Sample ID: IOC0880-09 (GW-2 - Water)** | | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | | |
| Benzene | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/12/05 | |
| Ethylbenzene | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/12/05 | |
| Toluene | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/12/05 | |
| o-Xylene | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/12/05 | |
| m,p-Xylenes | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/12/05 | |
| Xylenes, Total | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/12/05 | |
| Di-isopropyl Ether (DIPE) | EPA 8260B | 5C11031 | 2.0 | 5.0 | ND | 1 | 03/11/05 | 03/12/05 | |
| Ethyl tert-Butyl Ether (ETBE) | EPA 8260B | 5C11031 | 2.0 | 5.0 | ND | 1 | 03/11/05 | 03/12/05 | |
| tert-Amyl Methyl Ether (TAME) | EPA 8260B | 5C11031 | 2.0 | 5.0 | ND | 1 | 03/11/05 | 03/12/05 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 5C11031 | 2.0 | 5.0 | ND | 1 | 03/11/05 | 03/12/05 | |
| tert-Butanol (TBA) | EPA 8260B | 5C11031 | 10 | 25 | ND | 1 | 03/11/05 | 03/12/05 | |
| Ethanol | EPA 8260B | 5C11031 | 100 | 150 | ND | 1 | 03/11/05 | 03/12/05 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | | *107 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | | *104 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | | *96 %* | | | | |
| **Sample ID: IOC0880-10 (GW-5 - Water)** | | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | | |
| Benzene | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/12/05 | |
| Ethylbenzene | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/12/05 | |
| Toluene | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/12/05 | |
| o-Xylene | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/12/05 | |
| m,p-Xylenes | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/12/05 | |
| Xylenes, Total | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/12/05 | |
| Di-isopropyl Ether (DIPE) | EPA 8260B | 5C11031 | 2.0 | 5.0 | ND | 1 | 03/11/05 | 03/12/05 | |
| Ethyl tert-Butyl Ether (ETBE) | EPA 8260B | 5C11031 | 2.0 | 5.0 | ND | 1 | 03/11/05 | 03/12/05 | |
| tert-Amyl Methyl Ether (TAME) | EPA 8260B | 5C11031 | 2.0 | 5.0 | ND | 1 | 03/11/05 | 03/12/05 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 5C11031 | 2.0 | 5.0 | ND | 1 | 03/11/05 | 03/12/05 | |
| tert-Butanol (TBA) | EPA 8260B | 5C11031 | 10 | 25 | ND | 1 | 03/11/05 | 03/12/05 | |
| Ethanol | EPA 8260B | 5C11031 | 100 | 150 | ND | 1 | 03/11/05 | 03/12/05 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | | *108 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | | *107 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | | *96 %* | | | | |

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Pat Abe
Project Manager

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Delta Env. Consultants - Aliso Viejo
27141 Aliso Creek Road, Suite 270
Aliso Viejo, CA 92656
Attention: Paul McCarter

Project ID: ARCO 6176, West Covina

Report Number: IOC0880

Sampled: 03/10/05
Received: 03/10/05

# BTEX/OXYGENATES by GC/MS (EPA 8260B)

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| **Sample ID: IOC0880-11 (GW-1 - Water)** | | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | | |
| Benzene | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/12/05 | |
| Ethylbenzene | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/12/05 | |
| Toluene | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/12/05 | |
| o-Xylene | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/12/05 | |
| m,p-Xylenes | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/12/05 | |
| Xylenes, Total | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/12/05 | |
| Di-isopropyl Ether (DIPE) | EPA 8260B | 5C11031 | 2.0 | 5.0 | ND | 1 | 03/11/05 | 03/12/05 | |
| Ethyl tert-Butyl Ether (ETBE) | EPA 8260B | 5C11031 | 2.0 | 5.0 | ND | 1 | 03/11/05 | 03/12/05 | |
| tert-Amyl Methyl Ether (TAME) | EPA 8260B | 5C11031 | 2.0 | 5.0 | ND | 1 | 03/11/05 | 03/12/05 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 5C11031 | 2.0 | 5.0 | ND | 1 | 03/11/05 | 03/12/05 | |
| tert-Butanol (TBA) | EPA 8260B | 5C11031 | 10 | 25 | ND | 1 | 03/11/05 | 03/12/05 | |
| Ethanol | EPA 8260B | 5C11031 | 100 | 150 | ND | 1 | 03/11/05 | 03/12/05 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | | *110 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | | *105 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | | *96 %* | | | | |
| **Sample ID: IOC0880-12 (TB - Water)** | | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | | |
| Benzene | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| Ethylbenzene | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| Toluene | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| o-Xylene | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| m,p-Xylenes | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| Xylenes, Total | EPA 8260B | 5C11031 | 1.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| Di-isopropyl Ether (DIPE) | EPA 8260B | 5C11031 | 2.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| Ethyl tert-Butyl Ether (ETBE) | EPA 8260B | 5C11031 | 2.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| tert-Amyl Methyl Ether (TAME) | EPA 8260B | 5C11031 | 2.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 5C11031 | 2.0 | 5.0 | ND | 1 | 03/11/05 | 03/11/05 | |
| tert-Butanol (TBA) | EPA 8260B | 5C11031 | 10 | 25 | ND | 1 | 03/11/05 | 03/11/05 | |
| Ethanol | EPA 8260B | 5C11031 | 100 | 150 | ND | 1 | 03/11/05 | 03/11/05 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | | *106 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | | *104 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | | *95 %* | | | | |

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Project Manager

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1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (949) 370-1046
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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Delta Env. Consultants - Aliso Viejo
27141 Aliso Creek Road, Suite 270
Aliso Viejo, CA 92656
Attention: Paul McCarter

Project ID: ARCO 6176, West Covina

Report Number: IOC0880

Sampled: 03/10/05
Received: 03/10/05

## DISSOLVED GASES BY HEADSPACE EQUILIBRIUM (RSK-175 MOD.)

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| **Sample ID: IOC0880-01 (GW-3 - Water)** | | | | | | | | | |
| **Reporting Units: mg/l** | | | | | | | | | |
| Methane | RSK-175 MOD. | 5C18061 | N/A | 0.050 | ND | 1 | 03/18/05 | 03/18/05 | |
| **Sample ID: IOC0880-02 (BC-1 - Water)** | | | | | | | | | |
| **Reporting Units: mg/l** | | | | | | | | | |
| **Methane** | RSK-175 MOD. | 5C18061 | N/A | 0.050 | **0.16** | 1 | 03/18/05 | 03/18/05 | |
| **Sample ID: IOC0880-12 (TB - Water)** | | | | | | | | | |
| **Reporting Units: mg/l** | | | | | | | | | |
| Methane | RSK-175 MOD. | 5C18061 | N/A | 0.050 | ND | 1 | 03/18/05 | 03/18/05 | |

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Delta Env. Consultants - Aliso Viejo
27141 Aliso Creek Road, Suite 270
Aliso Viejo, CA 92656
Attention: Paul McCarter

Project ID: ARCO 6176, West Covina

Report Number: IOC0880

Sampled: 03/10/05
Received: 03/10/05

# INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|
| **Sample ID: IOC0880-01 (GW-3 - Water)** | | | | | | | | | |
| **Reporting Units: mg/l** | | | | | | | | | |
| Ferrous Iron | SM 3500-Fe D | 5C11066 | N/A | 0.10 | ND | 1 | 03/11/05 | 03/11/05 | |
| **Dissolved Oxygen** | EPA 360.1 | 5C11124 | N/A | 1.0 | **4.5** | 1 | 03/11/05 | 03/11/05 | |
| **Nitrate-N** | EPA 300.0 | 5C11044 | N/A | 0.55 | **6.4** | 5 | 03/11/05 | 03/11/05 | |
| **Sulfate** | EPA 300.0 | 5C11044 | N/A | 2.5 | **110** | 5 | 03/11/05 | 03/11/05 | |
| **Sample ID: IOC0880-02 (BC-1 - Water)** | | | | | | | | | |
| **Reporting Units: mg/l** | | | | | | | | | |
| **Ferrous Iron** | SM 3500-Fe D | 5C11066 | N/A | 0.10 | **0.40** | 1 | 03/11/05 | 03/11/05 | |
| **Dissolved Oxygen** | EPA 360.1 | 5C11124 | N/A | 1.0 | **2.9** | 1 | 03/11/05 | 03/11/05 | |
| **Nitrate-N** | EPA 300.0 | 5C11044 | N/A | 0.22 | **1.5** | 2 | 03/11/05 | 03/11/05 | |
| **Sulfate** | EPA 300.0 | 5C11044 | N/A | 1.0 | **72** | 2 | 03/11/05 | 03/11/05 | |
| **Sample ID: IOC0880-01 (GW-3 - Water)** | | | | | | | | | |
| **Reporting Units: mV** | | | | | | | | | |
| **Redox Potential (Eh)** | SM 2580B | 5C11083 | N/A | NA | **270** | 1 | 03/11/05 | 03/11/05 | |
| **Sample ID: IOC0880-02 (BC-1 - Water)** | | | | | | | | | |
| **Reporting Units: mV** | | | | | | | | | |
| **Redox Potential (Eh)** | SM 2580B | 5C11083 | N/A | NA | **400** | 1 | 03/11/05 | 03/11/05 | |
| **Sample ID: IOC0880-01 (GW-3 - Water)** | | | | | | | | | |
| **Reporting Units: pH Units** | | | | | | | | | |
| **pH** | EPA 150.1 | 5C11054 | N/A | NA | **7.07** | 1 | 03/11/05 | 03/11/05 | |
| **Sample ID: IOC0880-02 (BC-1 - Water)** | | | | | | | | | |
| **Reporting Units: pH Units** | | | | | | | | | |
| **pH** | EPA 150.1 | 5C11054 | N/A | NA | **7.13** | 1 | 03/11/05 | 03/11/05 | |

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Delta Env. Consultants - Aliso Viejo
27141 Aliso Creek Road, Suite 270
Aliso Viejo, CA 92656
Attention: Paul McCarter

Project ID: ARCO 6176, West Covina

Report Number: IOC0880

Sampled: 03/10/05
Received: 03/10/05

# SHORT HOLD TIME DETAIL REPORT

| | Hold Time (in days) | Date/Time Sampled | Date/Time Received | Date/Time Extracted | Date/Time Analyzed |
|---|---|---|---|---|---|
| **Sample ID: GW-3 (IOC0880-01) - Water** | | | | | |
| EPA 150.1 | 1 | 03/10/2005 10:00 | 03/10/2005 21:00 | 03/11/2005 07:00 | 03/11/2005 08:00 |
| EPA 300.0 | 2 | 03/10/2005 10:00 | 03/10/2005 21:00 | 03/11/2005 09:00 | 03/11/2005 11:27 |
| EPA 360.1 | 1 | 03/10/2005 10:00 | 03/10/2005 21:00 | 03/11/2005 15:20 | 03/11/2005 15:30 |
| SM 2580B | 1 | 03/10/2005 10:00 | 03/10/2005 21:00 | 03/11/2005 08:30 | 03/11/2005 09:30 |
| SM 3500-Fe D | 1 | 03/10/2005 10:00 | 03/10/2005 21:00 | 03/11/2005 09:30 | 03/11/2005 09:45 |
| **Sample ID: BC-1 (IOC0880-02) - Water** | | | | | |
| EPA 150.1 | 1 | 03/10/2005 16:00 | 03/10/2005 21:00 | 03/11/2005 07:00 | 03/11/2005 08:00 |
| EPA 300.0 | 2 | 03/10/2005 16:00 | 03/10/2005 21:00 | 03/11/2005 09:00 | 03/11/2005 11:40 |
| EPA 360.1 | 1 | 03/10/2005 16:00 | 03/10/2005 21:00 | 03/11/2005 15:20 | 03/11/2005 15:30 |
| SM 2580B | 1 | 03/10/2005 16:00 | 03/10/2005 21:00 | 03/11/2005 08:30 | 03/11/2005 09:30 |
| SM 3500-Fe D | 1 | 03/10/2005 16:00 | 03/10/2005 21:00 | 03/11/2005 09:30 | 03/11/2005 09:45 |

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Pat Abe
Project Manager

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Delta Env. Consultants - Aliso Viejo
27141 Aliso Creek Road, Suite 270
Aliso Viejo, CA 92656
Attention: Paul McCarter

Project ID: ARCO 6176, West Covina

Report Number: IOC0880

Sampled: 03/10/05
Received: 03/10/05

## METHOD BLANK/QC DATA

## VOLATILE FUEL HYDROCARBONS (EPA 5030/CADHS Mod. 8015)

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 5C18002 Extracted: 03/18/05** | | | | | | | | | | | |
| **Blank Analyzed: 03/18/2005 (5C18002-BLK1)** | | | | | | | | | | | |
| GRO (C4 - C12) | ND | 100 | 50 | ug/l | | | | | | | |
| *Surrogate: 4-BFB (FID)* | *7.84* | | | *ug/l* | *10.0* | | *78* | *65-140* | | | |
| **LCS Analyzed: 03/18/2005 (5C18002-BS1)** | | | | | | | | | | | |
| GRO (C4 - C12) | 654 | 100 | 50 | ug/l | 800 | | 82 | 70-140 | | | |
| *Surrogate: 4-BFB (FID)* | *34.3* | | | *ug/l* | *30.0* | | *114* | *65-140* | | | |
| **Matrix Spike Analyzed: 03/18/2005 (5C18002-MS1)** | | | | | **Source: IOC0880-01** | | | | | | |
| GRO (C4 - C12) | 202 | 100 | 50 | ug/l | 220 | ND | 92 | 60-140 | | | |
| *Surrogate: 4-BFB (FID)* | *10.0* | | | *ug/l* | *10.0* | | *100* | *65-140* | | | |
| **Matrix Spike Dup Analyzed: 03/18/2005 (5C18002-MSD1)** | | | | | **Source: IOC0880-01** | | | | | | |
| GRO (C4 - C12) | 207 | 100 | 50 | ug/l | 220 | ND | 94 | 60-140 | 2 | 20 | |
| *Surrogate: 4-BFB (FID)* | *10.3* | | | *ug/l* | *10.0* | | *103* | *65-140* | | | |
| **Batch: 5C18108 Extracted: 03/18/05** | | | | | | | | | | | |
| **Blank Analyzed: 03/18/2005 (5C18108-BLK1)** | | | | | | | | | | | |
| GRO (C4 - C12) | ND | 100 | 50 | ug/l | | | | | | | |
| *Surrogate: 4-BFB (FID)* | *8.74* | | | *ug/l* | *10.0* | | *87* | *65-140* | | | |
| **LCS Analyzed: 03/18/2005 (5C18108-BS1)** | | | | | | | | | | | |
| GRO (C4 - C12) | 628 | 100 | 50 | ug/l | 800 | | 78 | 70-140 | | | |
| *Surrogate: 4-BFB (FID)* | *24.6* | | | *ug/l* | *30.0* | | *82* | *65-140* | | | |
| **Matrix Spike Analyzed: 03/18/2005 (5C18108-MS1)** | | | | | **Source: IOC0880-11** | | | | | | |
| GRO (C4 - C12) | 192 | 100 | 50 | ug/l | 220 | ND | 87 | 60-140 | | | |
| *Surrogate: 4-BFB (FID)* | *8.92* | | | *ug/l* | *10.0* | | *89* | *65-140* | | | |

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Pat Abe
Project Manager

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Delta Env. Consultants - Aliso Viejo
27141 Aliso Creek Road, Suite 270
Aliso Viejo, CA 92656
Attention: Paul McCarter

Project ID: ARCO 6176, West Covina

Report Number: IOC0880

Sampled: 03/10/05
Received: 03/10/05

# METHOD BLANK/QC DATA

## VOLATILE FUEL HYDROCARBONS (EPA 5030/CADHS Mod. 8015)

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 5C18108 Extracted: 03/18/05** | | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/18/2005 (5C18108-MSD1)** | | | | | **Source: IOC0880-11** | | | | | | |
| GRO (C4 - C12) | 209 | 100 | 50 | ug/l | 220 | ND | 95 | 60-140 | 8 | 20 | |
| *Surrogate: 4-BFB (FID)* | *9.95* | | | *ug/l* | *10.0* | | *100* | *65-140* | | | |
| **Batch: 5C21099 Extracted: 03/21/05** | | | | | | | | | | | |
| **Blank Analyzed: 03/21/2005 (5C21099-BLK1)** | | | | | | | | | | | |
| GRO (C4 - C12) | ND | 100 | 50 | ug/l | | | | | | | |
| *Surrogate: 4-BFB (FID)* | *9.30* | | | *ug/l* | *10.0* | | *93* | *65-140* | | | |
| **LCS Analyzed: 03/21/2005 (5C21099-BS1)** | | | | | | | | | | | |
| GRO (C4 - C12) | 725 | 100 | 50 | ug/l | 800 | | 91 | 70-140 | | | |
| *Surrogate: 4-BFB (FID)* | *28.2* | | | *ug/l* | *30.0* | | *94* | *65-140* | | | |
| **Matrix Spike Analyzed: 03/21/2005 (5C21099-MS1)** | | | | | **Source: IOC1571-01** | | | | | | |
| GRO (C4 - C12) | 238 | 100 | 50 | ug/l | 220 | ND | 108 | 60-140 | | | |
| *Surrogate: 4-BFB (FID)* | *11.2* | | | *ug/l* | *10.0* | | *112* | *65-140* | | | |
| **Matrix Spike Dup Analyzed: 03/21/2005 (5C21099-MSD1)** | | | | | **Source: IOC1571-01** | | | | | | |
| GRO (C4 - C12) | 242 | 100 | 50 | ug/l | 220 | ND | 110 | 60-140 | 2 | 20 | |
| *Surrogate: 4-BFB (FID)* | *11.6* | | | *ug/l* | *10.0* | | *116* | *65-140* | | | |

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Pat Abe
Project Manager

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9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Delta Env. Consultants - Aliso Viejo
27141 Aliso Creek Road, Suite 270
Aliso Viejo, CA 92656
Attention: Paul McCarter

Project ID: ARCO 6176, West Covina

Report Number: IOC0880

Sampled: 03/10/05
Received: 03/10/05

# METHOD BLANK/QC DATA

## BTEX/OXYGENATES by GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 5C11031 Extracted: 03/11/05** | | | | | | | | | | | |
| **Blank Analyzed: 03/11/2005 (5C11031-BLK1)** | | | | | | | | | | | |
| Benzene | ND | 5.0 | 1.0 | ug/l | | | | | | | |
| Ethylbenzene | ND | 5.0 | 1.0 | ug/l | | | | | | | |
| Toluene | ND | 5.0 | 1.0 | ug/l | | | | | | | |
| o-Xylene | ND | 5.0 | 1.0 | ug/l | | | | | | | |
| m,p-Xylenes | ND | 5.0 | 1.0 | ug/l | | | | | | | |
| Xylenes, Total | ND | 5.0 | 1.0 | ug/l | | | | | | | |
| Di-isopropyl Ether (DIPE) | ND | 5.0 | 2.0 | ug/l | | | | | | | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 5.0 | 2.0 | ug/l | | | | | | | |
| tert-Amyl Methyl Ether (TAME) | ND | 5.0 | 2.0 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 5.0 | 2.0 | ug/l | | | | | | | |
| tert-Butanol (TBA) | ND | 25 | 10 | ug/l | | | | | | | |
| Ethanol | ND | 150 | 100 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *24.9* | | | *ug/l* | *25.0* | | *100* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *26.0* | | | *ug/l* | *25.0* | | *104* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *23.3* | | | *ug/l* | *25.0* | | *93* | *80-120* | | | |
| **LCS Analyzed: 03/11/2005 (5C11031-BS1)** | | | | | | | | | | | |
| Benzene | 22.6 | 5.0 | 1.0 | ug/l | 25.0 | | 90 | 70-120 | | | |
| Ethylbenzene | 22.7 | 5.0 | 1.0 | ug/l | 25.0 | | 91 | 80-120 | | | |
| Toluene | 22.7 | 5.0 | 1.0 | ug/l | 25.0 | | 91 | 75-120 | | | |
| o-Xylene | 22.8 | 5.0 | 1.0 | ug/l | 25.0 | | 91 | 75-125 | | | |
| m,p-Xylenes | 44.2 | 5.0 | 1.0 | ug/l | 50.0 | | 88 | 75-120 | | | |
| Xylenes, Total | 66.9 | 5.0 | 1.0 | ug/l | 75.0 | | 89 | 75-125 | | | |
| Di-isopropyl Ether (DIPE) | 23.4 | 5.0 | 2.0 | ug/l | 25.0 | | 94 | 65-135 | | | |
| Ethyl tert-Butyl Ether (ETBE) | 22.6 | 5.0 | 2.0 | ug/l | 25.0 | | 90 | 60-140 | | | |
| tert-Amyl Methyl Ether (TAME) | 22.5 | 5.0 | 2.0 | ug/l | 25.0 | | 90 | 60-140 | | | |
| Methyl-tert-butyl Ether (MTBE) | 22.5 | 5.0 | 2.0 | ug/l | 25.0 | | 90 | 55-145 | | | |
| tert-Butanol (TBA) | 123 | 25 | 10 | ug/l | 125 | | 98 | 70-140 | | | |
| Ethanol | 226 | 150 | 100 | ug/l | 250 | | 90 | 35-165 | | | |
| *Surrogate: Dibromofluoromethane* | *25.7* | | | *ug/l* | *25.0* | | *103* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *26.2* | | | *ug/l* | *25.0* | | *105* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.6* | | | *ug/l* | *25.0* | | *106* | *80-120* | | | |

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9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Delta Env. Consultants - Aliso Viejo
27141 Aliso Creek Road, Suite 270
Aliso Viejo, CA 92656
Attention: Paul McCarter

Project ID: ARCO 6176, West Covina

Report Number: IOC0880

Sampled: 03/10/05
Received: 03/10/05

## METHOD BLANK/QC DATA

## BTEX/OXYGENATES by GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 5C11031 Extracted: 03/11/05** | | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/11/2005 (5C11031-MS1)** | | | | | **Source: IOC0880-01** | | | | | | |
| Benzene | 22.7 | 5.0 | 1.0 | ug/l | 25.0 | ND | 91 | 70-120 | | | |
| Ethylbenzene | 23.0 | 5.0 | 1.0 | ug/l | 25.0 | ND | 92 | 70-130 | | | |
| Toluene | 22.7 | 5.0 | 1.0 | ug/l | 25.0 | ND | 91 | 70-120 | | | |
| o-Xylene | 22.6 | 5.0 | 1.0 | ug/l | 25.0 | ND | 90 | 65-125 | | | |
| m,p-Xylenes | 44.6 | 5.0 | 1.0 | ug/l | 50.0 | ND | 89 | 65-130 | | | |
| Xylenes, Total | 67.2 | 5.0 | 1.0 | ug/l | 75.0 | ND | 90 | 65-135 | | | |
| Di-isopropyl Ether (DIPE) | 24.9 | 5.0 | 2.0 | ug/l | 25.0 | ND | 100 | 65-140 | | | |
| Ethyl tert-Butyl Ether (ETBE) | 24.1 | 5.0 | 2.0 | ug/l | 25.0 | ND | 96 | 60-140 | | | |
| tert-Amyl Methyl Ether (TAME) | 24.2 | 5.0 | 2.0 | ug/l | 25.0 | ND | 97 | 55-145 | | | |
| Methyl-tert-butyl Ether (MTBE) | 23.9 | 5.0 | 2.0 | ug/l | 25.0 | ND | 96 | 50-155 | | | |
| tert-Butanol (TBA) | 126 | 25 | 10 | ug/l | 125 | ND | 101 | 65-145 | | | |
| Ethanol | 233 | 150 | 100 | ug/l | 250 | ND | 93 | 35-165 | | | |
| *Surrogate: Dibromofluoromethane* | *26.4* | | | *ug/l* | *25.0* | | *106* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *26.6* | | | *ug/l* | *25.0* | | *106* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *27.3* | | | *ug/l* | *25.0* | | *109* | *80-120* | | | |
| **Matrix Spike Dup Analyzed: 03/11/2005 (5C11031-MSD1)** | | | | | **Source: IOC0880-01** | | | | | | |
| Benzene | 22.4 | 5.0 | 1.0 | ug/l | 25.0 | ND | 90 | 70-120 | 1 | 20 | |
| Ethylbenzene | 22.9 | 5.0 | 1.0 | ug/l | 25.0 | ND | 92 | 70-130 | 0 | 20 | |
| Toluene | 22.8 | 5.0 | 1.0 | ug/l | 25.0 | ND | 91 | 70-120 | 0 | 20 | |
| o-Xylene | 23.2 | 5.0 | 1.0 | ug/l | 25.0 | ND | 93 | 65-125 | 3 | 20 | |
| m,p-Xylenes | 44.5 | 5.0 | 1.0 | ug/l | 50.0 | ND | 89 | 65-130 | 0 | 25 | |
| Xylenes, Total | 67.7 | 5.0 | 1.0 | ug/l | 75.0 | ND | 90 | 65-135 | 1 | 20 | |
| Di-isopropyl Ether (DIPE) | 24.9 | 5.0 | 2.0 | ug/l | 25.0 | ND | 100 | 65-140 | 0 | 25 | |
| Ethyl tert-Butyl Ether (ETBE) | 24.4 | 5.0 | 2.0 | ug/l | 25.0 | ND | 98 | 60-140 | 1 | 25 | |
| tert-Amyl Methyl Ether (TAME) | 24.0 | 5.0 | 2.0 | ug/l | 25.0 | ND | 96 | 55-145 | 1 | 30 | |
| Methyl-tert-butyl Ether (MTBE) | 23.8 | 5.0 | 2.0 | ug/l | 25.0 | ND | 95 | 50-155 | 0 | 25 | |
| tert-Butanol (TBA) | 131 | 25 | 10 | ug/l | 125 | ND | 105 | 65-145 | 4 | 25 | |
| Ethanol | 265 | 150 | 100 | ug/l | 250 | ND | 106 | 35-165 | 13 | 30 | |
| *Surrogate: Dibromofluoromethane* | *26.6* | | | *ug/l* | *25.0* | | *106* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *26.5* | | | *ug/l* | *25.0* | | *106* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *28.0* | | | *ug/l* | *25.0* | | *112* | *80-120* | | | |

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Delta Env. Consultants - Aliso Viejo
27141 Aliso Creek Road, Suite 270
Aliso Viejo, CA 92656
Attention: Paul McCarter

Project ID: ARCO 6176, West Covina

Report Number: IOC0880

Sampled: 03/10/05
Received: 03/10/05

## METHOD BLANK/QC DATA

## BTEX/OXYGENATES by GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 5C13003 Extracted: 03/13/05** | | | | | | | | | | | |
| **Blank Analyzed: 03/13/2005 (5C13003-BLK1)** | | | | | | | | | | | |
| Benzene | ND | 5.0 | 1.0 | ug/l | | | | | | | |
| Ethylbenzene | ND | 5.0 | 1.0 | ug/l | | | | | | | |
| Toluene | ND | 5.0 | 1.0 | ug/l | | | | | | | |
| o-Xylene | ND | 5.0 | 1.0 | ug/l | | | | | | | |
| m,p-Xylenes | ND | 5.0 | 1.0 | ug/l | | | | | | | |
| Xylenes, Total | ND | 5.0 | 1.0 | ug/l | | | | | | | |
| Di-isopropyl Ether (DIPE) | ND | 5.0 | 2.0 | ug/l | | | | | | | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 5.0 | 2.0 | ug/l | | | | | | | |
| tert-Amyl Methyl Ether (TAME) | ND | 5.0 | 2.0 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 5.0 | 2.0 | ug/l | | | | | | | |
| tert-Butanol (TBA) | ND | 25 | 10 | ug/l | | | | | | | |
| Ethanol | ND | 150 | 100 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *25.2* | | | *ug/l* | *25.0* | | *101* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *25.8* | | | *ug/l* | *25.0* | | *103* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.4* | | | *ug/l* | *25.0* | | *98* | *80-120* | | | |
| **LCS Analyzed: 03/13/2005 (5C13003-BS1)** | | | | | | | | | | | |
| Benzene | 23.1 | 5.0 | 1.0 | ug/l | 25.0 | | 92 | 70-120 | | | |
| Ethylbenzene | 24.7 | 5.0 | 1.0 | ug/l | 25.0 | | 99 | 80-120 | | | |
| Toluene | 25.7 | 5.0 | 1.0 | ug/l | 25.0 | | 103 | 75-120 | | | |
| o-Xylene | 24.2 | 5.0 | 1.0 | ug/l | 25.0 | | 97 | 75-125 | | | |
| m,p-Xylenes | 48.9 | 5.0 | 1.0 | ug/l | 50.0 | | 98 | 75-120 | | | |
| Xylenes, Total | 73.2 | 5.0 | 1.0 | ug/l | 75.0 | | 98 | 75-125 | | | |
| Di-isopropyl Ether (DIPE) | 25.1 | 5.0 | 2.0 | ug/l | 25.0 | | 100 | 65-135 | | | |
| Ethyl tert-Butyl Ether (ETBE) | 26.1 | 5.0 | 2.0 | ug/l | 25.0 | | 104 | 60-140 | | | |
| tert-Amyl Methyl Ether (TAME) | 27.8 | 5.0 | 2.0 | ug/l | 25.0 | | 111 | 60-140 | | | |
| Methyl-tert-butyl Ether (MTBE) | 26.2 | 5.0 | 2.0 | ug/l | 25.0 | | 105 | 55-145 | | | |
| tert-Butanol (TBA) | 121 | 25 | 10 | ug/l | 125 | | 97 | 70-140 | | | |
| Ethanol | 158 | 150 | 100 | ug/l | 250 | | 63 | 35-165 | | | |
| *Surrogate: Dibromofluoromethane* | *26.0* | | | *ug/l* | *25.0* | | *104* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *26.0* | | | *ug/l* | *25.0* | | *104* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.2* | | | *ug/l* | *25.0* | | *101* | *80-120* | | | |

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Project Manager

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Delta Env. Consultants - Aliso Viejo
27141 Aliso Creek Road, Suite 270
Aliso Viejo, CA 92656
Attention: Paul McCarter

Project ID: ARCO 6176, West Covina

Report Number: IOC0880

Sampled: 03/10/05
Received: 03/10/05

# METHOD BLANK/QC DATA

## BTEX/OXYGENATES by GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 5C13003 Extracted: 03/13/05** | | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/13/2005 (5C13003-MS1)** | | | | | **Source: IOC0964-01** | | | | | | |
| Benzene | 23.1 | 5.0 | 1.0 | ug/l | 25.0 | ND | 92 | 70-120 | | | |
| Ethylbenzene | 24.1 | 5.0 | 1.0 | ug/l | 25.0 | ND | 96 | 70-130 | | | |
| Toluene | 25.2 | 5.0 | 1.0 | ug/l | 25.0 | ND | 101 | 70-120 | | | |
| o-Xylene | 23.4 | 5.0 | 1.0 | ug/l | 25.0 | ND | 94 | 65-125 | | | |
| m,p-Xylenes | 47.4 | 5.0 | 1.0 | ug/l | 50.0 | ND | 95 | 65-130 | | | |
| Xylenes, Total | 70.8 | 5.0 | 1.0 | ug/l | 75.0 | ND | 94 | 65-135 | | | |
| Di-isopropyl Ether (DIPE) | 25.0 | 5.0 | 2.0 | ug/l | 25.0 | ND | 100 | 65-140 | | | |
| Ethyl tert-Butyl Ether (ETBE) | 25.7 | 5.0 | 2.0 | ug/l | 25.0 | ND | 103 | 60-140 | | | |
| tert-Amyl Methyl Ether (TAME) | 27.4 | 5.0 | 2.0 | ug/l | 25.0 | ND | 110 | 55-145 | | | |
| Methyl-tert-butyl Ether (MTBE) | 25.7 | 5.0 | 2.0 | ug/l | 25.0 | ND | 103 | 50-155 | | | |
| tert-Butanol (TBA) | 105 | 25 | 10 | ug/l | 125 | ND | 84 | 65-145 | | | |
| Ethanol | 158 | 150 | 100 | ug/l | 250 | ND | 63 | 35-165 | | | |
| *Surrogate: Dibromofluoromethane* | *26.3* | | | *ug/l* | *25.0* | | *105* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *26.0* | | | *ug/l* | *25.0* | | *104* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.7* | | | *ug/l* | *25.0* | | *99* | *80-120* | | | |
| **Matrix Spike Dup Analyzed: 03/13/2005 (5C13003-MSD1)** | | | | | **Source: IOC0964-01** | | | | | | |
| Benzene | 19.7 | 5.0 | 1.0 | ug/l | 25.0 | ND | 79 | 70-120 | 16 | 20 | |
| Ethylbenzene | 20.6 | 5.0 | 1.0 | ug/l | 25.0 | ND | 82 | 70-130 | 16 | 20 | |
| Toluene | 21.4 | 5.0 | 1.0 | ug/l | 25.0 | ND | 86 | 70-120 | 16 | 20 | |
| o-Xylene | 19.8 | 5.0 | 1.0 | ug/l | 25.0 | ND | 79 | 65-125 | 17 | 20 | |
| m,p-Xylenes | 39.9 | 5.0 | 1.0 | ug/l | 50.0 | ND | 80 | 65-130 | 17 | 25 | |
| Xylenes, Total | 59.8 | 5.0 | 1.0 | ug/l | 75.0 | ND | 80 | 65-135 | 17 | 20 | |
| Di-isopropyl Ether (DIPE) | 21.9 | 5.0 | 2.0 | ug/l | 25.0 | ND | 88 | 65-140 | 13 | 25 | |
| Ethyl tert-Butyl Ether (ETBE) | 15.0 | 5.0 | 2.0 | ug/l | 25.0 | ND | 60 | 60-140 | 53 | 25 | *RA* |
| tert-Amyl Methyl Ether (TAME) | 12.8 | 5.0 | 2.0 | ug/l | 25.0 | ND | 51 | 55-145 | 73 | 30 | *LN,AY, BA,AY* |
| Methyl-tert-butyl Ether (MTBE) | 20.2 | 5.0 | 2.0 | ug/l | 25.0 | ND | 81 | 50-155 | 24 | 25 | |
| tert-Butanol (TBA) | 113 | 25 | 10 | ug/l | 125 | ND | 90 | 65-145 | 7 | 25 | |
| Ethanol | 379 | 150 | 100 | ug/l | 250 | ND | 152 | 35-165 | 82 | 30 | *RA* |
| *Surrogate: Dibromofluoromethane* | *26.7* | | | *ug/l* | *25.0* | | *107* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *25.8* | | | *ug/l* | *25.0* | | *103* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.0* | | | *ug/l* | *25.0* | | *100* | *80-120* | | | |

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Pat Abe
Project Manager

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27141 Aliso Creek Road, Suite 270
Aliso Viejo, CA 92656
Attention: Paul McCarter

Project ID: ARCO 6176, West Covina

Report Number: IOC0880

Sampled: 03/10/05
Received: 03/10/05

## METHOD BLANK/QC DATA

## DISSOLVED GASES BY HEADSPACE EQUILIBRIUM (RSK-175 MOD.)

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 5C18061 Extracted: 03/18/05** | | | | | | | | | | | |
| **Blank Analyzed: 03/18/2005 (5C18061-BLK1)** | | | | | | | | | | | |
| Methane | ND | 0.050 | N/A | mg/l | | | | | | | |
| **LCS Analyzed: 03/18/2005 (5C18061-BS1)** | | | | | | | | | | | |
| Methane | 1.11 | 0.050 | N/A | mg/l | 1.36 | | 82 | 80-120 | | | |
| **Matrix Spike Analyzed: 03/18/2005 (5C18061-MS1)** | | | | | | **Source: IOC1317-04** | | | | | |
| Methane | 1.14 | 0.050 | N/A | mg/l | 1.36 | 0.032 | 81 | 80-120 | | | |
| **Matrix Spike Dup Analyzed: 03/18/2005 (5C18061-MSD1)** | | | | | | **Source: IOC1317-04** | | | | | |
| Methane | 1.16 | 0.050 | N/A | mg/l | 1.36 | 0.032 | 83 | 80-120 | 2 | 25 | |

**Del Mar Analytical, Irvine**
Pat Abe
Project Manager

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17461 Derian Ave., Suite 100, Irvine, CA 92614 (949) 261-1022 FAX (949) 260-3297
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (949) 370-1046
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Delta Env. Consultants - Aliso Viejo
27141 Aliso Creek Road, Suite 270
Aliso Viejo, CA 92656
Attention: Paul McCarter

Project ID: ARCO 6176, West Covina

Report Number: IOC0880

Sampled: 03/10/05
Received: 03/10/05

# METHOD BLANK/QC DATA

## INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 5C11044 Extracted: 03/11/05** | | | | | | | | | | | |
| **Blank Analyzed: 03/11/2005 (5C11044-BLK1)** | | | | | | | | | | | |
| Nitrate-N | ND | 0.11 | N/A | mg/l | | | | | | | |
| Sulfate | ND | 0.50 | N/A | mg/l | | | | | | | |
| **LCS Analyzed: 03/11/2005 (5C11044-BS1)** | | | | | | | | | | | |
| Nitrate-N | 1.13 | 0.11 | N/A | mg/l | 1.13 | | 100 | 90-110 | | | |
| Sulfate | 9.98 | 0.50 | N/A | mg/l | 10.0 | | 100 | 90-110 | | | *LO* |
| **Matrix Spike Analyzed: 03/11/2005 (5C11044-MS1)** | | | | | **Source: IOC0942-01** | | | | | | |
| Nitrate-N | 1.92 | 0.11 | N/A | mg/l | 1.13 | 0.80 | 99 | 80-120 | | | |
| **Matrix Spike Dup Analyzed: 03/11/2005 (5C11044-MSD1)** | | | | | **Source: IOC0942-01** | | | | | | |
| Nitrate-N | 1.91 | 0.11 | N/A | mg/l | 1.13 | 0.80 | 98 | 80-120 | 1 | 20 | |
| **Batch: 5C11054 Extracted: 03/11/05** | | | | | | | | | | | |
| **Duplicate Analyzed: 03/11/2005 (5C11054-DUP1)** | | | | | **Source: IOC0855-01** | | | | | | |
| pH | 7.07 | NA | N/A | pH Units | | 7.05 | | | 0 | 5 | |
| **Batch: 5C11066 Extracted: 03/11/05** | | | | | | | | | | | |
| **Blank Analyzed: 03/11/2005 (5C11066-BLK1)** | | | | | | | | | | | |
| Ferrous Iron | ND | 0.10 | N/A | mg/l | | | | | | | |
| **Duplicate Analyzed: 03/11/2005 (5C11066-DUP1)** | | | | | **Source: IOC0880-02** | | | | | | |
| Ferrous Iron | 0.400 | 0.10 | N/A | mg/l | | 0.40 | | | 0 | 20 | |

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Delta Env. Consultants - Aliso Viejo
27141 Aliso Creek Road, Suite 270
Aliso Viejo, CA 92656
Attention: Paul McCarter

Project ID: ARCO 6176, West Covina

Report Number: IOC0880

Sampled: 03/10/05
Received: 03/10/05

# METHOD BLANK/QC DATA

## INORGANICS

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 5C11083 Extracted: 03/11/05** | | | | | | | | | | | |
| **Duplicate Analyzed: 03/11/2005 (5C11083-DUP1)** | | | | | | **Source: IOC0880-01** | | | | | |
| Redox Potential (Eh) | 269 | NA | N/A | mV | | 270 | | | 0 | 5 | |
| **Batch: 5C11124 Extracted: 03/11/05** | | | | | | | | | | | |
| **Duplicate Analyzed: 03/11/2005 (5C11124-DUP1)** | | | | | | **Source: IOC0880-01** | | | | | |
| Dissolved Oxygen | 4.00 | 1.0 | N/A | mg/l | | 4.5 | | | 12 | 20 | |

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Attention: Paul McCarter

Project ID: ARCO 6176, West Covina

Report Number: IOC0880

Sampled: 03/10/05
Received: 03/10/05

## DATA QUALIFIERS AND DEFINITIONS

| | |
|---|---|
| **BA,AY** | The RPD exceeded the method control limit due to sample matrix effects |
| **ID** | Analyte identified by RT & presence of single mass ion |
| **IO** | Contract limits originate from BP-GCLN Technical Requirements |
| **J,DX** | EPA Flag - Estimated value,Value < lowest standard (MQL), but > than MDL |
| **LN,AY** | The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS). |
| **LO** | MS and/or MSD result unavailable. Batch accept. based on LCS rec. |
| **RA** | RPD exceeds limit due to matrix interf.; % recovs. within limits |
| **ND** | Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified. |
| **RPD** | Relative Percent Difference |

## ADDITIONAL COMMENTS

**For 8260 analyses:**

Due to the high water solubility of alcohols and ketones, the calibration criteria for these compounds is <30% RSD. The average % RSD of all compounds in the calibration is 15%, in accordance with EPA methods.

**For GRO (C4-C12):**

GRO (C4-C12) is quantitated against a gasoline standard. Quantitation begins immediately following the methanol peak.

## 8015 Analysis EDF Parlabel Cross Reference

| Analyte | EDF Parlabel |
|---|---|
| GRO (C4 - C12) | GROC4C12 |

**Del Mar Analytical, Irvine**
Pat Abe
Project Manager

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Attention: Paul McCarter

Project ID: ARCO 6176, West Covina

Report Number: IOC0880

Sampled: 03/10/05
Received: 03/10/05

## Certification Summary

**Del Mar Analytical, Irvine**

| Method | Matrix | Nelac | California |
|---|---|---|---|
| EPA 150.1 | Water | X | X |
| EPA 300.0 | Water | X | X |
| EPA 360.1 | Water | X | X |
| EPA 8015 Mod. | Water | X | X |
| EPA 8260B | Water | X | X |
| RSK-175 MOD. | Water | X | X |
| SM 2580B | Water | X | X |
| SM 3500-Fe D | Water | X | X |

*Nevada and NELAP provide analyte specific accreditations. Analyte specific information for Del Mar Analytical may be obtained by contacting the laboratory or visiting our website at www.dmalabs.com.*

**Del Mar Analytical, Irvine**
Pat Abe
Project Manager

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bp

# Chain of Custody Record

127318

**Project Name** Arco 6176
**BP BU/GEM CO Portfolio:** Desert
**BP Laboratory Contract Number:** 461000
**Requested Due Date (mm/dd/yy)** 10 days

| | |
|---|---|
| On-site Time: | Temp: |
| Off- site Time: | Temp: |
| Sky Conditions: | |
| Meteorological Events: | |
| Wind Speed: | Direction: |

| | | |
|---|---|---|
| **Send To:** | BP/GEM Facility No.: 6176 - West Covina | Consultant/Contractor: Delta |
| Lab Name: Del Mar | BP/GEM Facility Address: | Address: Aliso Viejo |
| Lab Address: Irvine | Site ID No. | |
| | Site Lat/Long: | e-mail EDD: |
| | California Global ID #: | Consultant/Contractor Project No.: |
| Lab PM: Pat Abe | BP/GEM PM Contact: G Terhune | Consultant/Contractor Tele/Fax: |
| Tele/Fax: | Address: | Consultant/Contractor PM: P. McCarter |
| Report Type & QC Level: | | Invoice to: Consultant or BP or Atlantic Richfield Co (Circle one) |
| BP/GEM Account No.: 6176 | Tele/Fax: | BP/GEM Work Release No: |

Lab Bottle Order No: 10C 0880

| Item No. | Sample Description | Time | Date | Matrix: Soil/Solid | Matrix: Water/Liquid | Matrix: Air | Laboratory No. | No. of containers | Preservatives: Unpreserved | $H_2SO_4$ | $HNO_3$ | HCl | Ice | BTEX 8021 | TPH 8015 | EPA 8260 BTEX+oxys | EPA 8270 | Methane BTX | DO | Ferrous Iron | Nitrate | pH | Redox/Sulfate | Sample Point Lat/Long and Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | GW-3 | 1000 | 3/10 | | X | | | 12 | X | | | X | X | | X | X | | X | X | X | X | X | X | |
| 2 | BJ [redacted] BC-1 | 10[redacted] | [redacted] | | | | | 12 | X | | | | | | | | | X | X | X | X | X | X | |
| 3 | GW-4 | 1044 | | | | | | 5 | | | | | | | | | | | | | | | | |
| 4 | GW-6 | 1330 | | | | | | | | | | | | | | | | | | | | | | |
| 5 | GW-7 | 1430 | | | | | | | | | | | | | | | | | | | | | | |
| 6 | BC-17 | 1450 | | | | | | | | | | | | | | | | | | | | | | |
| 7 | BC-18 | 1502 | | | | | | | | | | | | | | | | | | | | | | |
| 8 | BC-2 | 1512 | | | | | | | | | | | | | | | | | | | | | | |
| 9 | GW-2 | 1530 | | | | | | | | | | | | | | | | | | | | | | |
| 10 | GW-5 | 1540 | | | | | | | | | | | | | | | | | | | | | | |

| | Relinquished By / Affiliation | Date | Time | Accepted By / Affiliation | Date | Time |
|---|---|---|---|---|---|---|
| Sampler's Name: Brian Johnson | [signature] / Dowlos | 3/10/05 | 2100 | [signature] | 3/10/05 | 2100 |
| Sampler's Company: Dowlos | | | | | | |
| Shipment Date: | | | | | | |
| Shipment Method: | | | | | | |
| Shipment Tracking No: | | | | | | |

**Special Instructions:**

Custody Seals In Place Yes ___ No X

Cooler Temperature on Receipt 2 °F/C

Trip Blank Yes X No ___

LABORATORY

127317

# Chain of Custody Record

**Project Name** Arco 6176
BP BU/GEM CO Portfolio: Desert
BP Laboratory Contract Number: 461000
**Requested Due Date (mm/dd/yy)** 10 days

| | |
|---|---|
| On-site Time: | Temp: |
| Off- site Time: | Temp: |
| Sky Conditions: | |
| Meteorological Events: | |
| Wind Speed: | Direction: |

| | | |
|---|---|---|
| **Send To:** | BP/GEM Facility No.: 6176 - West Covina | Consultant/Contractor: Delta |
| Lab Name: Del Mar | BP/GEM Facility Address: | Address: Aliso Viejo |
| Lab Address: Irvine | Site ID No. | |
| | Site Lat/Long: | e-mail EDD: |
| | California Global ID #: | Consultant/Contractor Project No.: 60CC8 |
| Lab PM: Pat Abe | BP/GEM PM Contact: b Terhune | Consultant/Contractor Tele/Fax: |
| Tele/Fax: | Address: | Consultant/Contractor PM: P. McCarter |
| Report Type & QC Level: | | Invoice to: Consultant or BP or Atlantic Richfield Co (Circle one) |
| BP/GEM Account No.: 6176 | Tele/Fax: | BP/GEM Work Release No: |

Lab Bottle Order No: IOC0850

| Item No. | Sample Description | Time | Date | Matrix: Soil/Solid | Matrix: Water/Liquid | Matrix: Air | Laboratory No. | No. of containers | Preservatives: Unpreserved | $H_2SO_4$ | $HNO_3$ | HCl | Ice | Requested Analysis: BTEX 8021 | TPH 8015 | EPA 8260 | EPA 8270 | Methane | | | | | | Sample Point Lat/Long and Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 6W-1 | 1000 | 3/10 | | X | | | 5 | X | | | X | X | | X | X | | | | | | | | |
| 2 | TB | - | ↓ | | X | | | 8 | | | | X | X | | X | X | | X | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| Sampler's Name: Brian Johnson | **Relinquished By / Affiliation** | **Date** | **Time** | **Accepted By / Affiliation** | **Date** | **Time** |
| Sampler's Company: Dowley | [signature] / Dowley | 3/10 | 2100 | [signature] | 3/10/05 | 2100 |
| Shipment Date: | | | | | | |
| Shipment Method: | | | | | | |
| Shipment Tracking No: | | | | | | |

**Special Instructions:**

Custody Seals In Place Yes ___ No X  Cooler Temperature on Receipt 2 °F/C  Trip Blank Yes X No ___

LABORATORY

# ATTACHMENT C

AS/SVE System Operation Summary

**AS/SVE SYSTEM OPERATION SUMMARY – FIRST QUARTER 2005**
**ARCO FACILITY NO. 6176**
**1001 E. AMAR ROAD**
**WEST COVINA, CALIFORNIA**

## BACKGROUND

Operation of the soil vapor extraction (SVE) system to address the hydrocarbon-impacted soil at the Site was initiated on May 6, 1997. Laboratory analytical results of the influent vapor samples indicated volatile fuel hydrocarbons (VFH) and benzene concentrations of 1,400 and 34 parts per million by volume (ppmv), respectively. From startup through February 1998, the SVE system was operated in cyclical mode and experienced occasional equipment malfunctioning. Laboratory analytical results of influent vapor samples collected on January 30, 1998, indicated a VFH concentration of 64 ppmv. Benzene was not detected at or above the laboratory-reporting limit. The system remained off during the second and third quarters of 1998 pending public notification for a fixed location permit (as required by the South Coast Air Quality Management District [SCAQMD]).

The SVE system was restarted on November 24, 1998, after a fixed location permit was obtained from the SCAQMD. The SVE system operated continuously through the first quarter 1999, with the exception of shutdowns due to system alarms and equipment repairs. Laboratory analytical results of influent vapor samples collected on November 24, 1998, indicated VFH and benzene concentrations of 490 and 7.8 ppmv, respectively. Laboratory analytical results of influent vapor samples collected on March 30, 1999, indicated influent VFH concentration of 730 ppmv and benzene concentration of 7.2 ppmv.

During the first quarter of 1999, dual completion wells VW-4 through VW-8 were installed and connected to the existing air sparge (AS) and SVE lateral piping. Wells VW-4, VW-5 and VW-6 were connected to the lateral AS and SVE piping for well BC-1. Wells VW-7 and VW-8 were connected to the existing AS and SVE lateral piping for well BC-5. The new wells were added along the Site's western property line (along Valinda Boulevard). In addition, an AS compressor and control panel were installed. Air sparging in conjunction with SVE was initiated on March 30, 1999, in order to address the hydrocarbon-impacted groundwater beneath the Site. Air sparging was initiated in wells VW-4 through VW-8 in an effort to create an oxygen barrier along the Site's western property line, thus reducing further offsite hydrocarbon migration. Air sparging was also initiated in existing sparge wells BC-1, BC-3, BC-4, BC-5, BC-6 and BC-7.

Following the initiation of AS/SVE at the site, laboratory analytical results of influent vapor samples collected on April 6, 1999, indicated VFH and benzene concentrations of 460 and 1.9 ppmv, respectively. On May 27, 1999, influent vapor samples indicated VFH and benzene concentrations of 440 and 2.1 ppmv, respectively.

From the second quarter of 1999 through the fourth quarter of 2000, the AS/SVE system operated on a continuous basis with the exception of occasional shutdowns due to equipment repairs. On July 10, 2000, a new AS compressor was installed. The compressor supplies approximately 10 pounds of air per square inch at 2 to 6 standard cubic feet per minute to each sparge point. Operation of the AS system, in conjunction with SVE activities, continued through the remainder of the fourth quarter of 2000. At the end of the period, laboratory analytical results of influent vapor samples collected on December 5, 2000 indicated VFH concentration of 79 ppmv. Benzene and MTBE concentrations were not detected at or above the laboratory reporting limits of 1.6 and 1.4 ppmv, respectively, in the December 5, 2000 influent sample.

During the first quarter of 2001, operation of the AS system, in conjunction with SVE activities, was cycled due to the continued low influent vapor concentrations. Laboratory analytical results of influent vapor samples collected on January 31, February 28, and March 30, 2001, indicated VFH concentrations of 70, 13, and 18 ppmv, respectively. For each sampling event, benzene and MTBE were not detected at or above the laboratory reporting limits of 1.6 and 1.4 ppmv, respectively.

Operation of the AS system, in conjunction with SVE activities, was cycled during the second quarter of 2001. Laboratory analytical results of influent vapor samples collected on April 25, May 31, and June 20, 2001, indicated VFH concentrations of 21 ppmv, 9.8 ppmv, and non detect at or above the laboratory reporting limit, respectively. For each sampling event, benzene and MTBE were not detected at or above the laboratory reporting limits of 1.6 and 1.4 ppmv, respectively.

Operation of the AS system, in conjunction with SVE activities, was cycled during the third quarter of 2001. Operation of the AS/SVE system was concentrated on wells BC-1 and VW-1. Laboratory analytical results of influent vapor samples collected on July 24, August 23, and September 19, 2001, indicated VFH concentrations of 4.5, 8.4, and 35 ppmv, respectively. For each sampling event, benzene and MTBE were not detected at or above the laboratory reporting limits of 1.6 and 1.4 ppmv, respectively.

Operation of the AS system, in conjunction with SVE activities, was cycled during the fourth quarter of 2001. During October 2001, the power supply to the system was removed in error (during removal of power to the former facility). Following installation of a replacement power pole, permit and re-inspection by the City of West Covina, and reconnection

of power by Southern California Edison, the system was restarted on November 19, 2001. Operation of the AS/SVE system was concentrated on all wells (with the exception of the sparge point at BC-4). Laboratory analytical results of influent vapor samples collected on October 18, November 21, and December 18, 2001, indicated VFH concentrations of 13, 44, and 30 ppmv, respectively.

Operation of the AS system, in conjunction with SVE activities, was cycled during the first quarter of 2002. The system also experienced automatic shutdowns due to process blower trips. Laboratory analytical results of influent vapor samples collected on January 23, February 12, and March 21, 2002, indicated VFH concentrations of 49, 60, and 23 ppmv, respectively. For all sampling events, benzene and MTBE were not detected at or above the laboratory reporting limits of 1.6 and 1.4 ppmv, respectively.

Operation of the AS system, in conjunction with SVE activities, was cycled during the second quarter of 2002. The unit was turned off for cycling and for equipment repairs on May 1, 2002, and remained off for the rest of the quarter. Laboratory analytical results of the influent vapor sample collected on April 16, 2002 indicated a VFH concentration of 44 ppmv. Benzene and MTBE were not detected at or above the laboratory reporting limits of 1.6 and 1.4 ppmv, respectively.

The SVE system was operational intermittently during the third quarter of 2002. The unit was turned off from May 1, 2002, through July 10, 2002, due to mechanical problems. The unit was shut down on August 1, 2002, due to a malfunctioning of the flame actuator and on August 14, 2002, due to groundwater sampling activities. The system remained off until September 25, 2002, when it was restarted following system repair.

Laboratory analytical results of the influent vapor sample collected on July 16, 2002 indicated a pre-dilution VFH concentration of 41.0 ppmv. No VFH concentration was detected in the effluent sample at or above a laboratory-reporting limit of 2.4 ppmv.

The SVE system was operational intermittently during the fourth quarter of 2002. SVE system operational uptime was approximately 43%. Laboratory analytical results of vapor influent samples collected on October 23, November 21, and December 18, 2002, indicated pre-dilution VFH concentrations of 33, 36, and 28 ppmv, respectively.

SVE system operational uptime was approximately 60% (through March 26, 2003) during the first quarter of 2003. The AS system compressor was replaced on February 5, 2003, after which the AS system operated in conjunction with the SVE system for the remainder of the quarter. Laboratory analytical results of vapor influent samples collected on January 22, February 19, and March 12, 2003, indicated pre-dilution VFH concentrations of 42, 140, and 24 ppmv, respectively. Benzene and MTBE were detected at 1.8 ppmv and 1.7 ppmv, respectively for the February 19, 2003 influent vapor sample.

SVE system operational uptime was approximately 73% (through July 2, 2003) during the second quarter 2003. The AS system operated in conjunction with the SVE system until May 15, 2003, when it was shut down for repairs to the compressor. Laboratory analytical results of vapor influent samples collected on April 23, and June 18, 2003, indicated pre-dilution VFH concentrations of 4.8 and 6.2 ppmv, respectively. Benzene and MTBE were not detected at the laboratory-reporting limits of 1.6 ppmv and 1.4 ppmv, respectively.

SVE system operational uptime was approximately 99% (through September 30, 2003) during the third quarter 2003. The AS system did not operate all quarter due to compressor repairs. Laboratory analytical results of vapor influent samples collected on July 31, August 19, and September 16, 2003, indicated pre-dilution VFH concentrations of 7.0 ppmv, not detected at the laboratory-reporting limit of 2.4 ppmv, and 4.6 ppmv, respectively. Benzene and MTBE were not detected at the laboratory-reporting limits of 1.6 ppmv and 1.4 ppmv, respectively.

The SVE system operational time during the fourth quarter 2003 was approximately 61% (through December 22, 2003). The AS system was restarted on November 12, 2003 after compressor repairs were complete. Laboratory analytical results of vapor influent samples collected on November 11, November 18, and December 16, 2003, indicated pre-dilution VFH concentrations of less than 2.4 ppmv, 25 ppmv, and 29 ppmv, respectively. Benzene and MTBE were not detected at the laboratory-reporting limits of 1.6 ppmv and 1.4 ppmv, respectively.

The SVE system operational time during first quarter of 2004 was approximately 8% (covering January 1, 2004 through March 3, 2004). Laboratory analytical results of vapor influent sample collected on February 5, 2004, indicated pre-dilution VFH concentrations 5.6 ppmv, respectively. Benzene and MTBE were not detected at the laboratory-reporting limits of 1.6 ppmv and 1.4 ppmv, respectively. During the month of January, the AS/SVE system was not operational due to site

demolition activities. During excavation of the tank pit, lateral lines to the SVE system were damaged. Upon completion of repairs to the lateral lines, the treatment system was restarted on February 3, 2004. The AS/SVE system was shutdown for repairs to the AS flow gauge and compressor motor on March 3, 2004.

Total operational time for the second quarter of 2004 was approximately 17% (covering April 1, 2004 through May 25, 2004). Approximately 2 pounds of petroleum hydrocarbons were extracted from the subsurface during the monitoring period. An approximate total of 5,932 pounds of petroleum hydrocarbons have been extracted from the subsurface since the initiation of SVE activities on May 6, 1997. SVE system operational time was limited during the second quarter 2004. During the month of April, the AS/SVE system was not operational due to repairs on the air sparge manifold. The air sparge manifold was repaired on May 13, 2004 and the system was restarted. On May 25, 2004 the AS/SVE system was down due to a tripped blower. Individual well head concentrations were collected on May 18, 2004 to analyze for rebound effects during the system shutdown period. Laboratory results indicated VFH concentrations to be 26, 4.6 and 9.3 for SVE wells BC-1, GW-1 and BC-5, respectively. SVE wells BC-3, BC-6, BC-7, VW-3, BC-4, VW-2, VW-1 and GW-2 did not indicate any VFH concentrations at or above 2.8 ppmv. Laboratory analytical results of vapor influent sample indicated pre-dilution VFH concentrations to be non-detectable at 2.8 ppmv. Benzene and MTBE were not detected at the laboratory-reporting limits of 1.6 ppmv and 1.4 ppmv, respectively.

On June 29, 2004, Delta submitted *Notice of Intent, Modification to On-Site Remediation Operations* to the CRWQCB-LA requesting to modify the existing AS/SVE system to a biosparge system. Influent concentrations to the SVE system have been reduced to asymptotic levels. Therefore, Delta believes the SVE portion of the remediation system has reached the feasible limit of operation. Delta believes the air sparge portion of the system remains to provide a beneficial remedial effect by increasing the available oxygen in the groundwater and promoting the biodegradation of dissolved-phase hydrocarbons. However, the dissolved-phase concentrations have been reduced to a level where air stripping is no longer a significant part of the remediation process. Therefore, the SVE system is no longer necessary to remove the injected air stream.

Delta has received a letter dated on August 12, 2004 from the CRWQCB-LA accepting the proposed modification to the existing treatment system.

The SVE system did not operate during the Fourth Quarter of 2004.

## ACTIVITIES DURING REPORTING PERIOD

The SVE system did not operate during the reporting period. Biosparging activities are planned to begin during the second quarter of 2005.

## PROGRESS TOWARDS CLOSURE

Begin biosparging activities at the site during the second quarter of 2005.

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**TABLE 1**
**SVE SYSTEM PERFORMANCE DATA**
**ARCO FACILITY NO. 6176**
**1001 EAST AMAR ROAD**
**WEST COVINA, CALIFORNIA**

| Date Monitored | SVE System Status | Operating Time (hours) | Percent Operating Time (%) | Total System Flow Rate (cfm) | Combus. Temp. (Deg F) | Inlet VOC Conc. (PID-ppmv) | Exhaust VOC Conc. (PID-ppmv) | VFH Conc. | Inlet Benzene Conc. (lab-ppmv) | MTBE Conc. | VFH Conc. | Exhaust Benzene Conc. (lab-ppmv) | MTBE Conc. | Estimated VFH Conc. (ppmv) | Hydrocarbons Removed Daily (lbs) | Hydrocarbons Removed Cum. (lbs) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06-May-97 | Startup | 1 | 0 | 140 | 1400 | 3520 | 46 | 1400 | 34 | NA | 11 | ND<1.6 | NA | 1400 | 0 | 0 | |
| 13-May-97 | Restart | 6 | 3 | 143 | 1468 | 5185 | 0 | NA | NA | NA | 46 | ND<1.6 | NA | 1272 | 68 | 15 | |
| 22-May-97 | Restart | 44 | 18 | 148 | 1466 | 2150 | 0 | 370 | 8.8 | NA | NA | NA | NA | 370 | 20 | 47 | |
| 27-May-97 | Restart | 46 | 2 | 143 | 1450 | 2233 | 0 | NA | NA | NA | NA | NA | NA | 370 | 21 | 49 | |
| 03-Jun-97 | On | 217 | 100 | 140 | 1450 | 1687 | 0 | 390 | 10 | NA | 3.4 | ND<1.6 | NA | 390 | 21 | 201 | |
| 10-Jul-97 | Restart | 218 | 0 | 140 | 1450 | 2831 | 0 | 110 | ND<1.6 | NA | 2.9 | ND<1.6 | NA | 110 | 6 | 202 | |
| 15-Jul-97 | On | 339 | 100 | 142 | 1450 | 2643 | 0 | NA | NA | NA | NA | NA | NA | 161 | 9 | 245 | |
| 22-Jul-97 | On | 505 | 99 | 145 | 1450 | 570 | 0 | 230 | 2.9 | NA | 17 | ND<1.6 | NA | 230 | 13 | 332 | |
| 06-Aug-97 | On | 861 | 99 | 140 | 1450 | 560 | 0 | 180 | 2.4 | NA | NA | NA | NA | 180 | 10 | 480 | |
| 12-Aug-97 | On | 1008 | 100 | 143 | 1450 | 621 | 0 | NA | NA | NA | NA | NA | NA | 163 | 9 | 533 | |
| 20-Aug-97 | On | 1201 | 100 | 139 | 1450 | 733 | 0 | 140 | 1.7 | NA | 3.2 | ND<1.6 | NA | 140 | 8 | 595 | |
| 29-Aug-97 | On | 1415 | 99 | 143 | 1450 | 681 | 0 | NA | NA | NA | NA | NA | NA | 119 | 6 | 652 | |
| 02-Sep-97 | On | 1513 | 100 | 138 | 1450 | 310 | 0 | 110 | ND<1.6 | NA | 3.4 | ND<1.6 | NA | 110 | 6 | 676 | |
| 09-Sep-97 | On | 1683 | 100 | 136 | 1450 | 461 | 0 | NA | NA | NA | NA | NA | NA | 200 | 11 | 751 | |
| 19-Sep-97 | On | 1922 | 100 | 139 | 1455 | NA | NA | NA | NA | NA | NA | NA | NA | 327 | 17 | 921 | |
| 24-Sep-97 | On | 2041 | 99 | 132 | 1450 | 641 | 0 | 390 | 4.1 | NA | 2.9 | ND<1.6 | NA | 390 | 21 | 1024 | |
| 02-Oct-97 | On | 2234 | 100 | 128 | 1450 | 883 | 0 | NA | NA | NA | NA | NA | NA | 1093 | 55 | 1468 | |
| 10-Oct-97 | Restart | 2236 | 1 | 106 | 1450 | 2015 | NA | 1100 | 25 | NA | NA | NA | NA | 1100 | 54 | 1472 | |
| 17-Oct-97 | Restart | 2237 | 1 | 118 | 1450 | 7000+ | 0 | NA | NA | NA | NA | NA | NA | 1092 | 44 | 1474 | |
| 24-Oct-97 | On | 2333 | 57 | 91 | 1450 | 1256 | 0 | 290 | 5.9 | NA | ND<2.4 | ND<1.6 | NA | 290 | 13 | 1527 | |
| 30-Oct-97 | Restart | 2406 | 51 | 105 | 1450 | 1463 | 0 | NA | NA | NA | NA | NA | NA | 368 | 13 | 1566 | |
| 05-Nov-97 | Restart | 2408 | 1 | 109 | 1450 | 1610 | 0 | 370 | 8.8 | NA | NA | NA | NA | 370 | 15 | 1567 | |
| 13-Nov-97 | On | 2601 | 100 | 91 | 1450 | 1281 | 0 | NA | NA | NA | NA | NA | NA | 285 | 12 | 1662 | |
| 21-Nov-97 | Restart | 2724 | 64 | 129 | 1450 | 1463 | 0 | NA | NA | NA | NA | NA | NA | 230 | 8 | 1704 | |
| 25-Nov-97 | Restart | 2725 | 1 | 143 | 1450 | 1010 | 0 | 230 | ND<1.6 | NA | 2.7 | ND<1.6 | NA | 230 | 11 | 1704 | |
| 03-Dec-97 | Restart | 2730 | 3 | 144 | 1455 | 1533 | 0 | NA | NA | NA | NA | NA | NA | 322 | 18 | 1708 | |
| 11-Dec-97 | Restart | 2731 | 1 | 140 | 1456 | NA | NA | 340 | 14 | NA | 2.4 | ND<1.6 | NA | 340 | 19 | 1708 | |
| 19-Dec-97 | Restart | 2732 | 1 | 144 | 1469 | 1341 | 0 | NA | NA | NA | NA | NA | NA | 338 | 18 | 1709 | |
| 05-Jan-98 | Restart | 2732.2 | 0 | 152 | 1461 | NA | NA | NA | NA | NA | NA | NA | NA | 338 | 19 | 1709 | |
| 13-Jan-98 | On | 2925 | 100 | 147 | 1459 | 2888 | 0 | 7.1 | ND<1.6 | NA | ND<2.4 | ND<1.6 | NA | 7 | 0 | 1713 | |
| 23-Jan-98 | On | 3164 | 100 | 141 | 1449 | 2633 | 0 | NA | NA | NA | NA | NA | NA | 62 | 3 | 1747 | |
| 30-Jan-98 | Restart | 3173 | 5 | 145 | 1465 | 3143 | 0 | 64 | ND<1.6 | NA | NA | NA | NA | 64 | 3 | 1749 | |
| 11-Feb-98 | Off | 3179 | 2 | 139 | 1446 | 190 | 0 | 8.6 | ND<1.6 | NA | ND<2.4 | ND<1.6 | NA | 9 | 0 | 1749 | |
| 23-Nov-98 | Off | 3181.2 | 0 | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 374 | 20 | 1751 | Unable to restart |
| 24-Nov-98 | Restart | 3181.9 | 3 | 118 | 1450 | 4998 | 1.2 | 490 | 7.8 | NA | ND<2.4 | ND<1.6 | NA | 490 | 0 | 1751 | Adjusted gas for stability/Replace signage |
| 30-Nov-98 | Restart | 3187.3 | 4 | 107 | 1431 | 4360 | 0.9 | NA | NA | NA | NA | NA | NA | 499 | 23 | 1756 | |
| 08-Dec-98 | On | 3371.0 | 96 | 111 | 1436 | 3680 | 0.7 | 810 | 13 | NA | NA | NA | NA | 810 | 33 | 2010 | Close dilution air/Calibrated LEL sensor |
| 16-Dec-98 | On | 3562.8 | 100 | 101 | 1441 | 4553 | 1.2 | NA | NA | NA | NA | NA | NA | 430 | 18 | 2156 | Clean K/O pot and lines |
| 22-Dec-98 | Off | 3704.4 | 98 | 88 | 1435 | 3860 | 0.8 | NA | NA | NA | NA | NA | NA | 150 | 6 | 2190 | Shut system down/Need K/O drum |
| 06-Jan-99 | Off | 3714.6 | 3 | 119 | 1435 | 3860 | 0.8 | 130 | 3.1 | NA | ND<2.4 | ND<1.6 | NA | 130 | 4 | 2192 | Repair of K/O system. Unit restarted. |
| 11-Jan-99 | Off | 3715.2 | 0 | 127 | 1482 | 4976 | 7.2 | NA | NA | NA | NA | NA | NA | 130 | 6 | 2192 | Down on arrival/High temp alarm |
| 22-Jan-99 | Off | 3771.1 | 21 | 129 | 1431 | 3798 | 8.9 | NA | NA | NA | NA | NA | NA | 167 | 8 | 2211 | Down on arrival/High temp alarm |
| 27-Jan-99 | On | 3889.3 | 99 | 87 | 1431 | 2010 | 0.5 | NA | NA | NA | NA | NA | NA | 244 | 12 | 2270 | |
| 02-Feb-99 | On | 4033.2 | 100 | 89 | 1427 | 1864 | 1 | NA | NA | NA | NA | NA | NA | 338 | 11 | 2338 | |
| 08-Feb-99 | On | 4187.4 | 100 | 82 | 1426 | 1640 | 0.8 | NA | NA | NA | NA | NA | NA | 438 | 15 | 2434 | |
| 16-Feb-99 | On | 4374.4 | 97 | 82 | 1412 | 4060 | 1.2 | 560 | 3.1 | NA | ND<2.4 | ND<1.6 | NA | 560 | 18 | 2571 | |
| 26-Feb-99 | On | 4738.9 | 100 | 84 | 1415 | 2248 | 0.8 | NA | NA | NA | NA | NA | NA | 702 | 22 | 2906 | |
| 03-Mar-99 | Off | 4738.91 | 0 | 84 | 1412 | 4060 | 1.2 | NA | NA | NA | NA | NA | NA | 702 | 23 | 2906 | Down on arrival/High K/O level alarm |
| 15-Mar-99 | On | 4739.3 | 0 | 90 | 1450 | 3560 | 0.9 | NA | NA | NA | NA | NA | NA | 702 | 23 | 2906 | Down on arrival/High K/O level alarm |
| 18-Mar-99 | Off | 4811.3 | 100 | 90 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 730 | 25 | 2982 | System down pending connection of new wells |
| 30-Mar-99 | Restart | 4811.1 | 0 | 90 | 1450 | NA | NA | 730 | 7.2 | NA | 4.4 | ND<1.6 | NA | 730 | 25 | 2981 | Sparge system startup |
| 05-Apr-99 | Restart | 4883.5 | 50 | 85 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 527 | 18 | 3036 | Installed sound blankets |

TABLE 1
SVE SYSTEM PERFORMANCE DATA
ARCO FACILITY NO. 6176
1001 EAST AMAR ROAD
WEST COVINA, CALIFORNIA

| Date Monitored | SVE System Status | Operating Time (hours) | Percent Operating Time (%) | Total System Flow Rate (cfm) | Combus. Temp. (Deg F) | Inlet VOC Conc. (PID-ppmv) | Exhaust VOC Conc. (PID-ppmv) | VFH Conc. | Inlet Benzene Conc. (lab-ppmv) | MTBE Conc. | VFH Conc. | Exhaust Benzene Conc. (lab-ppmv) | MTBE Conc. | Estimated VFH Conc. (ppmv) | Hydrocarbons Removed Daily (lbs) | Hydrocarbons Removed Cum. (lbs) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06-Apr-99 | On | 4907.5 | 100 | 85 | 1412 | 3680 | 2.3 | 460 | 1.9 | NA | 4.4 | ND<1.6 | NA | 460 | 15 | 3051 | Raining/Left new fire extinguisher on site |
| 13-Apr-99 | On | 5075.6 | 100 | 84 | 1413 | 546.1 | 3.2 | NA | NA | NA | NA | NA | NA | 447 | 15 | 3153 | Clean enclosure/Phone line not working |
| 20-Apr-99 | On | 5242.3 | 99 | 76 | 1407 | 517.6 | 2.7 | NA | NA | NA | NA | NA | NA | 434 | 14 | 3250 | |
| 27-Apr-99 | On | 5420.7 | 100 | 78 | 1414 | 835.5 | 1.6 | 420 | 2.8 | NA | ND<2.4 | ND<1.6 | NA | 420 | 12 | 3341 | |
| 03-May-99 | On | 5555.3 | 93 | 80 | 1406 | 339.3 | 0 | NA | NA | NA | NA | NA | NA | 424 | 13 | 3412 | Replaced signage/Need to drain K/O drums |
| 10-May-99 | On | 5723.3 | 100 | 78 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 429 | 13 | 3504 | Palomar installed new phone line |
| 11-May-99 | On | 5747.3 | 100 | 78 | 1411 | 486.7 | 0.2 | NA | NA | NA | NA | NA | NA | 430 | 13 | 3517 | |
| 17-May-99 | On | 5891.5 | 100 | 76 | 1408 | 300.6 | 4.8 | NA | NA | NA | NA | NA | NA | 435 | 13 | 3595 | Calibrated LEL sensor |
| 27-May-99 | Restart | 6066.5 | 73 | 84 | 1417 | 1220 | 0.2 | 440 | 2.1 | NA | 3.2 | ND<1.6 | NA | 440 | 13 | 3688 | Removed fax board |
| 01-Jun-99 | On | 6195.8 | 100 | 77 | 1411 | 418.6 | 0 | NA | NA | NA | NA | NA | NA | 408 | 13 | 3759 | |
| 05-Jun-99 | Off | 6283.6 | 91 | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 386 | 11 | 3801 | Shut system down for cycling |
| 01-Sep-99 | Restart | 6283.6 | 0 | 80 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 386 | 0 | 3801 | Chart recorder installed by Stealth |
| 02-Sep-99 | Running | 6303.0 | 81 | 84 | 1450 | 5975 | 21.5 | NA | NA | NA | NA | NA | NA | 382 | 12 | 3810 | |
| 10-Sep-99 | On | 6501.2 | 100 | 80 | 1440 | 350.6 | 0 | NA | NA | NA | NA | NA | NA | 333 | 11 | 3898 | |
| 14-Sep-99 | On | 6587.8 | 90 | 80 | 1433 | 3380 | 1 | NA | NA | NA | NA | NA | NA | 311 | 10 | 3933 | |
| 21-Sep-99 | On | 6755.2 | 100 | 80 | 1435 | 3420 | 0 | 270 | ND<1.6 | NA | ND<2.4 | ND<1.6 | NA | 270 | 8 | 3991 | |
| 29-Sep-99 | On | 6929.6 | 91 | 82 | 1424 | 269.3 | 0 | NA | NA | NA | NA | NA | NA | 231 | 7 | 4042 | |
| 05-Oct-99 | On | 7090 | 100 | 82 | 1417 | 310.4 | 0 | NA | NA | NA | NA | NA | NA | 196 | 6 | 4083 | |
| 12-Oct-99 | On | 7260.5 | 100 | 84 | 1421 | 197.6 | 0 | NA | NA | NA | NA | NA | NA | 158 | 5 | 4118 | |
| 22-Oct-99 | On | 7501.1 | 100 | 87 | 1418 | 134.7 | 0 | NA | NA | NA | NA | NA | NA | 105 | 3 | 4152 | |
| 29-Oct-99 | On | 7667.8 | 99 | 87 | 1417 | 260.2 | 0 | 68 | ND<1.6 | NA | ND<2.4 | ND<1.6 | NA | 68 | 2 | 4168 | |
| 04-Nov-99 | On | 7817 | 100 | 87 | 1413 | 629.4 | 0 | NA | NA | NA | NA | NA | NA | 72 | 2 | 4183 | Sparge off for repairs |
| 05-Nov-99 | On | 7842 | 100 | 89 | 1413 | 783.4 | 0 | NA | NA | NA | NA | NA | NA | 72 | 2 | 4185 | Repaired/Restarted sparge system |
| 11-Nov-99 | On | 7980.7 | 96 | 64 | 1409 | 924 | 0 | NA | NA | NA | NA | NA | NA | 76 | 3 | 4200 | |
| 18-Nov-99 | On | 8149.6 | 100 | 121 | 1415 | 326.1 | 0 | NA | NA | NA | NA | NA | NA | 80 | 2 | 4214 | |
| 23-Nov-99 | Off | 8268.9 | 99 | 127 | 1412 | 399.4 | 0 | NA | NA | NA | NA | NA | NA | 83 | 4 | 4233 | Unit shut off/High k/o/Electrical problems/Cycling |
| 03-Jan-00 | Restart | 8269.3 | 0 | 177 | 1457 | >20,000 | 0 | NA | NA | NA | NA | NA | NA | 83 | 4 | 4233 | Repairs/Restart. Influent concentrations high. |
| 04-Jan-00 | On | 8293.1 | 99 | 174 | 1466 | NA | NA | NA | NA | NA | NA | NA | NA | 83 | 6 | 4239 | Dilution air needed due to high inlet VOCs. |
| 06-Jan-00 | On | 8340.3 | 98 | 151 | 1429 | NA | NA | NA | NA | NA | NA | NA | NA | 84 | 6 | 4250 | Closed dil. air. Restart sparge (3 hrs on/1 hr off) |
| 10-Jan-00 | On | 8436.8 | 100 | 135 | 1414 | 953.9 | 0 | NA | NA | NA | NA | NA | NA | 87 | 5 | 4270 | |
| 17-Jan-00 | On | 8605.2 | 100 | 137 | 1412 | 854 | 0 | NA | NA | NA | NA | NA | NA | 91 | 5 | 4303 | Calibrated LEL sensor |
| 24-Jan-00 | On | 8780.6 | 100 | 136 | 1411 | 1700 | 0 | NA | NA | NA | NA | NA | NA | 95 | 5 | 4339 | Calibrated LEL sensor |
| 26-Jan-00 | On | 8820.6 | 83 | 140 | 1412 | 1012 | 0 | 96 | ND<1.6 | NA | ND<2.4 | ND<1.6 | NA | 96 | 5 | 4348 | |
| 01-Feb-00 | Off | 8970.7 | 100 | 141 | 1414 | 412.5 | 0 | NA | NA | NA | NA | NA | NA | 88 | 5 | 4377 | Shutdown K/O system full |
| 03-Feb-00 | Restart | 8970.7 | 0 | 140 | 1420 | 528.6 | 0 | NA | NA | NA | NA | NA | NA | 88 | 5 | 4377 | Restart unit and sparge system |
| 08-Feb-00 | On | 9086.8 | 97 | 138 | 1414 | 638.4 | 0 | NA | NA | NA | NA | NA | NA | 82 | 4 | 4398 | |
| 15-Feb-00 | On | 9256 | 100 | 139 | 1417 | 501.9 | 0 | NA | NA | NA | NA | NA | NA | 72 | 4 | 4425 | |
| 21-Feb-00 | Restart | 9256.1 | 0 | 200 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 72 | 4 | 4425 | |
| 22-Feb-00 | Off | 9280.7 | 100 | 171 | 1413 | 915.6 | 0 | 71 | ND<1.6 | 43 | ND<2.4 | ND<1.6 | ND<1.4 | 71 | 5 | 4431 | Unit shutoff for groundwater sampling |
| 28-Feb-00 | Restart | 9280.7 | 0 | 187 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 71 | 5 | 4431 | |
| 02-Mar-00 | Restart | 9301.4 | 29 | 135 | 1420 | 1460 | 0 | NA | NA | NA | NA | NA | NA | 77 | 6 | 4436 | Unit and sparge system restarted |
| 09-Mar-00 | Off | 9301.4 | 0 | 135 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 77 | 4 | 4436 | Process blower failure |
| 22-Mar-00 | Restart | 9361.6 | 19 | 139 | 1467 | 1820 | 0 | NA | NA | NA | NA | NA | NA | 96 | 5 | 4448 | Repaired K/O system |
| 29-Mar-00 | On | 9468.9 | 64 | 128 | 1485 | 487.9 | 0 | 130 | 3.4 | 6.9 | ND<2.4 | ND<1.6 | ND<1.4 | 130 | 7 | 4479 | Turn on K/O pot pump |
| 06-Apr-00 | On | 9654.9 | 97 | 118 | 1415 | 684.7 | 0 | NA | NA | NA | NA | NA | NA | 101 | 5 | 4517 | |
| 12-Apr-00 | Restart | 9748.3 | 65 | 129 | 1455 | 135.6 | 0 | NA | NA | NA | NA | NA | NA | 86 | 4 | 4532 | Down on arrival/Process blower failure |
| 20-Apr-00 | Restart | 9842.0 | 49 | 130 | 1435 | 156 | 0 | NA | NA | NA | NA | NA | NA | 71 | 4 | 4546 | Down on arrival/Process blower failure |
| 27-Apr-00 | Restart | 9914.0 | 43 | 122 | 1425 | 60 | 0 | 60 | ND<1.6 | ND<1.4 | ND<2.4 | ND<1.6 | ND<1.4 | 60 | 3 | 4555 | Down on arrival/Process blower failure |
| 02-May-00 | Restart | 9915.2 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 60 | 3 | 4555 | Down on arrival/Process blower failure |
| 08-May-00 | Off | 9915.2 | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 60 | 3 | 4555 | Replaced fuse |
| 11-May-00 | Restart | 9915.2 | 0 | 200 | 383 | NA | NA | NA | NA | NA | NA | NA | NA | 60 | 3 | 4555 | Replace loose wire #24 |
| 12-May-00 | On | 9932.3 | 71 | 149 | 1451 | 2,783 | 0 | NA | NA | NA | NA | NA | NA | 58 | 4 | 4558 | |

**TABLE 1**
**SVE SYSTEM PERFORMANCE DATA**
**ARCO FACILITY NO. 6176**
**1001 EAST AMAR ROAD**
**WEST COVINA, CALIFORNIA**

| Date Monitored | SVE System Status | Operating Time (hours) | Percent Operating Time (%) | Total System Flow Rate (cfm) | Combus. Temp. (Deg F) | Inlet VOC Conc. (PID-ppmv) | Exhaust VOC Conc. (PID-ppmv) | VFH Conc. | Inlet Benzene Conc. (lab-ppmv) | MTBE Conc. | VFH Conc. | Exhaust Benzene Conc. (lab-ppmv) | MTBE Conc. | Estimated VFH Conc. (ppmv) | Hydrocarbons Removed Daily (lbs) | Hydrocarbons Removed Cum. (lbs) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17-May-00 | On | 10057.5 | 100 | 124 | 1417 | 166 | 0 | NA | NA | NA | NA | NA | NA | 41 | 2 | 4570 | Sparge compressor failure/Need replacement |
| 24-May-00 | Restart | 10170.3 | 67 | 200 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 25 | 1 | 4576 | Down on arrival/Water sampling |
| 25-May-00 | On | 10187.1 | 70 | 123 | 1414 | 210 | 0 | 23 | ND<1.6 | ND<1.4 | ND<2.4 | ND<1.6 | ND<1.4 | 23 | 2 | 4577 | |
| 31-May-00 | On | 10334.1 | 100 | 120 | 1409 | 93 | 0 | NA | NA | NA | NA | NA | NA | 24 | 1 | 4584 | Replaced air filter/Signs/Sound blankets |
| 03-Jun-00 | On | 10402.6 | 95 | 120 | 1415 | NA | NA | NA | NA | NA | NA | NA | NA | 24 | 1 | 4587 | Drive by |
| 07-Jun-00 | On | 10499.0 | 100 | 118 | 1414 | 129 | 0 | NA | NA | NA | NA | NA | NA | 24 | 1 | 4592 | Repair sound blankets |
| 14-Jun-00 | On | 10666.8 | 100 | 115 | 1425 | 113 | 0 | NA | NA | NA | NA | NA | NA | 25 | 1 | 4600 | SVE off - cyclic operation pending AS repairs |
| 05-Jul-00 | Off | 10666.8 | 0 | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 25 | 1 | 4600 | Turn over blower |
| 10-Jul-00 | Restart | 10666.8 | 0 | 200 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 25 | 1 | 4600 | Install new AS compressor |
| 12-Jul-00 | On | 10711.0 | 92 | 127 | 1413 | 324.6 | 0 | NA | NA | NA | NA | NA | NA | 25 | 2 | 4603 | Check SVE wells/Install sound blankets |
| 19-Jul-00 | On | 10878.9 | 100 | 121 | 1412 | 313.4 | 0 | 26 | ND<1.6 | 13 | ND<2.4 | ND<1.6 | ND<1.4 | 26 | 1 | 4612 | AS needs love joy coupling |
| 28-Jul-00 | On | 11092.7 | 99 | 121 | 1418 | 2360 | 0 | NA | NA | NA | NA | NA | NA | 28 | 1 | 4624 | |
| 03-Aug-00 | On | 11237.9 | 100 | 119 | 1440 | 1787 | 0 | NA | NA | NA | NA | NA | NA | 29 | 1 | 4632 | AS needs new flange coupling |
| 08-Aug-00 | On | 11356.8 | 99 | 121 | 1412 | 347.6 | 0 | NA | NA | NA | NA | NA | NA | 30 | 1 | 4639 | Cleaned up compound |
| 16-Aug-00 | On | 11548.6 | 100 | 115 | 1418 | 1154 | 0 | 32 | ND<1.6 | 14 | ND<2.4 | ND<1.6 | ND<1.4 | 32 | 1 | 4651 | |
| 23-Aug-00 | On | 11716.5 | 100 | 118 | 1418 | 987.4 | 0 | NA | NA | NA | NA | NA | NA | 68 | 3 | 4672 | |
| 29-Aug-00 | Restart | 11740.1 | 16 | 126 | 1435 | 1246 | 0 | NA | NA | NA | NA | NA | NA | 74 | 3 | 4675 | Down on arrival main power switch off |
| 06-Sep-00 | On | 11931.2 | 100 | 121 | 1416 | 254.8 | 0 | NA | NA | NA | NA | NA | NA | 115 | 6 | 4719 | |
| 13-Sep-00 | On | 12100.1 | 100 | 121 | 1416 | 254.8 | 0 | NA | NA | NA | NA | NA | NA | 152 | 7 | 4768 | AS manifold leaking |
| 19-Sep-00 | Restart | 12248.2 | 100 | 120 | 1418 | 264.7 | 0 | NA | NA | NA | NA | NA | NA | 184 | 9 | 4831 | Manually shut down |
| 26-Sep-00 | On | 12415.6 | 100 | 120 | 1414 | 214.6 | 0 | 220 | 3.6 | ND<1.4 | ND<2.4 | ND<1.6 | ND<1.4 | 220 | 10 | 4902 | AS repair manifold |
| 03-Oct-00 | On | 12583.9 | 100 | 116 | 1413 | 187.2 | 0 | NA | NA | NA | NA | NA | NA | 207 | 10 | 4969 | |
| 10-Oct-00 | On | 12745.9 | 96 | 116 | 1410 | 144.7 | 0 | NA | NA | NA | NA | NA | NA | 195 | 9 | 5027 | |
| 17-Oct-00 | On | 12913.9 | 100 | 115 | 1424 | 210.4 | 0 | NA | NA | NA | NA | NA | NA | 183 | 8 | 5084 | Reset LEL set point |
| 24-Oct-00 | On | 13082.0 | 100 | 117 | 1417 | 185.4 | 0 | 170 | ND<1.6 | 3.5 | ND<2.4 | ND<1.6 | ND<1.4 | 170 | 7 | 5137 | |
| 31-Oct-00 | On | 13249.8 | 100 | 115 | 1415 | 158.7 | 0 | NA | NA | NA | NA | NA | NA | 136 | 6 | 5179 | |
| 07-Nov-00 | On | 13418.0 | 100 | 113 | 1411 | 102.8 | 0 | NA | NA | NA | NA | NA | NA | 102 | 4 | 5211 | |
| 15-Nov-00 | Restart | 13513.2 | 50 | 200 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 83 | 4 | 5225 | Down on arrival/Main power shut off |
| 17-Nov-00 | Restart | 13530.5 | 36 | 150 | 1401 | 157 | 0 | NA | NA | NA | NA | NA | NA | 79 | 6 | 5229 | Down on arrival/Blown Breaker |
| 18-Nov-00 | Off | 13531.2 | 3 | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 79 | 5 | 5229 | Down on arrival/Blown Breaker |
| 28-Nov-00 | Off | 13531.2 | 0 | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 79 | 0 | 5229 | Install ASCO valve, float switch, clean K/O filter |
| 05-Dec-00 | Restart | 13532.0 | 0 | 137 | 1413 | 238.6 | 0 | 79 | ND<1.6 | ND<1.4 | ND<2.4 | ND<1.6 | ND<1.4 | 79 | 0 | 5229 | Install AS cooling fan |
| 11-Dec-00 | On | 13673.1 | 98 | 135 | 1421 | 218.4 | 0 | NA | NA | NA | NA | NA | NA | 77 | 4 | 5253 | SVE adjustments |
| 17-Dec-00 | On | 13816.7 | 100 | 131 | 1416 | 238.2 | 0 | NA | NA | NA | NA | NA | NA | 75 | 4 | 5276 | |
| 27-Dec-00 | Restart | 13999.3 | 76 | 132 | 1402 | 202.9 | 0 | NA | NA | NA | NA | NA | NA | 72 | 4 | 5304 | Down on arrival. Tripped blower breaker. |
| 08-Jan-01 | Restart | 14090.0 | 31 | 132 | 1415 | NA | NA | NA | NA | NA | NA | NA | NA | 71 | 4 | 5317 | |
| 10-Jan-01 | Off | 14114.4 | 51 | 132 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 70 | 4 | 5321 | Down on arrival. K/O system full. |
| 29-Jan-01 | Restart | 14114.4 | 0 | 200 | 1415 | NA | NA | NA | NA | NA | NA | NA | NA | 70 | 4 | 5321 | |
| 31-Jan-01 | Restart | 14143.2 | 60 | 129 | 1418 | 97.6 | 0 | 70 | ND<1.6 | ND<1.4 | ND<2.4 | ND<1.6 | ND<1.4 | 70 | 5 | 5327 | Down on arrival. Tripped blower breaker. |
| 08-Feb-01 | Off | 14186.2 | 22 | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 62 | 3 | 5333 | Down on arrival. Blown fuse. |
| 13-Feb-01 | Restart | 14186.3 | 0 | 200 | 1420 | NA | NA | NA | NA | NA | NA | NA | NA | 62 | 0 | 5333 | Replace fuse. Restart |
| 16-Feb-01 | Restart | 14192.6 | 9 | 128 | 1428 | 144.7 | 0 | NA | NA | NA | NA | NA | NA | 61 | 5 | 5334 | Down on arrival. Service k/o system. |
| 21-Feb-01 | On | 14311.9 | 99 | 121 | 1416 | 156.4 | 0 | NA | NA | NA | NA | NA | NA | 40 | 2 | 5344 | |
| 25-Feb-01 | Restart | 14396.3 | 88 | 200 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 26 | 1 | 5348 | Down on arrival/High liquid level |
| 28-Feb-01 | On | 14468.2 | 100 | 117 | 1413 | 223.4 | 0 | 13 | ND<1.6 | ND<1.4 | ND<2.4 | ND<1.6 | ND<1.4 | 13 | 1 | 5351 | |
| 06-Mar-01 | Restart | 14570.0 | 71 | 200 | 1415 | NA | NA | NA | NA | NA | NA | NA | NA | 15 | 1 | 5354 | Down on arrival. K/O system full. |
| 16-Mar-01 | Off | 14601.0 | 13 | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 16 | 1 | 5356 | Down on arrival/Electrical failure |
| 27-Mar-01 | Restart | 14601.4 | 0 | 200 | 1415 | NA | NA | NA | NA | NA | NA | NA | NA | 16 | 0 | 5356 | Electrical wiring replacement/repairs |
| 30-Mar-01 | On | 14672.6 | 99 | 123 | 1415 | 21.7 | 0 | 18 | ND<1.6 | ND<1.4 | ND<2.4 | ND<1.6 | ND<1.4 | 18 | 1 | 5360 | |
| 05-Apr-01 | Restart | 14823.7 | 100 | 151 | 1454 | 187.0 | 0 | NA | NA | NA | NA | NA | NA | 19 | 1 | 5366 | |
| 11-Apr-01 | On | 14958.9 | 94 | 154 | 1414 | 27.2 | 0 | NA | NA | NA | NA | NA | NA | 21 | 1 | 5372 | |
| 13-Apr-01 | On | 15006.2 | 99 | 153 | 1425 | 3.0 | 0 | NA | NA | NA | NA | NA | NA | 21 | 1 | 5375 | |

**TABLE 1**
**SVE SYSTEM PERFORMANCE DATA**
**ARCO FACILITY NO. 6176**
**1001 EAST AMAR ROAD**
**WEST COVINA, CALIFORNIA**

| Date Monitored | SVE System Status | Operating Time (hours) | Percent Operating Time (%) | Total System Flow Rate (cfm) | Combus. Temp. (Deg F) | Inlet VOC Conc. (PID-ppmv) | Exhaust VOC Conc. (PID-ppmv) | VFH Conc. | Inlet Benzene Conc. (lab-ppmv) | MTBE Conc. | VFH Conc. | Exhaust Benzene Conc. (lab-ppmv) | MTBE Conc. | Estimated VFH Conc. (ppmv) | Hydrocarbons Removed Daily (lbs) | Hydrocarbons Removed Cum. (lbs) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25-Apr-01 | On | 15007.0 | 0 | 131 | 1414 | 21.0 | 0 | 21 | ND<1.6 | ND<1.4 | ND<2.4 | ND<1.6 | ND<1.4 | 21 | 1 | 5375 | |
| 02-May-01 | On | 15180.1 | 100 | 115 | 1419 | 8.0 | 0 | NA | NA | NA | NA | NA | NA | 18 | 1 | 5381 | |
| 09-May-01 | On | 15350.3 | 100 | 113 | 1415 | 18.4 | 0 | NA | NA | NA | NA | NA | NA | 16 | 1 | 5386 | |
| 17-May-01 | Off | 15534.7 | 96 | 110 | 1414 | 36.6 | 0 | NA | NA | NA | NA | NA | NA | 13 | 1 | 5391 | Off for cycling |
| 22-May-01 | Restart | 15534.7 | 0 | 127 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 13 | 1 | 5391 | |
| 24-May-01 | On | 15589.0 | 100 | 127 | 1418 | 15.4 | 0 | NA | NA | NA | NA | NA | NA | 12 | 1 | 5392 | |
| 31-May-01 | Off | 15734.8 | 87 | 138 | 1411 | 76.4 | 0 | 9.8 | ND<1.6 | ND<1.4 | ND<2.4 | ND<1.6 | ND<1.4 | 9.8 | 0.5 | 5395 | Off for cycling |
| 06-Jun-01 | Restart | 15734.9 | 0 | 140 | 1418 | 128.7 | 0 | NA | NA | NA | NA | NA | NA | 9.8 | 0.5 | 5395 | |
| 12-Jun-01 | Off | 15884.0 | 100 | 138 | 1413 | 64.3 | 0 | NA | NA | NA | NA | NA | NA | 3 | 0.2 | 5396 | Off for cycling |
| 19-Jun-01 | Restart | 15884.6 | 0 | 138 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 3 | 0.2 | 5396 | |
| 20-Jun-01 | On | 15908.8 | 100 | 138 | 1412 | 66.3 | 0 | ND<2.4 | ND<1.6 | ND<1.4 | ND<2.4 | ND<1.6 | ND<1.4 | 2.4 | 0.1 | 5396 | |
| 27-Jun-01 | Off | 16076.4 | 100 | 138 | 1417.0 | 60.7 | 0 | NA | NA | NA | NA | NA | NA | 3 | 0.2 | 5397 | Off for cycling |
| 03-Jul-01 | Restart | 16076.5 | 0 | 139 | 1415 | 56.7 | 0 | NA | NA | NA | NA | NA | NA | 3 | 0.2 | 5397 | |
| 10-Jul-01 | Off | 16244.9 | 100 | 136 | 1418 | 27.0 | 0 | NA | NA | NA | NA | NA | NA | 4 | 0.2 | 5399 | Off for cycling |
| 17-Jul-01 | Restart | 16244.9 | 0 | 132 | 1425 | 201.0 | 0 | NA | NA | NA | NA | NA | NA | 4 | 0.2 | 5399 | |
| 24-Jul-01 | Off | 16405.9 | 96 | 135 | 1416 | 137.0 | 0 | 4.5 | ND<1.6 | ND<1.4 | ND<2.4 | ND<1.6 | ND<1.4 | 4.5 | 0.2 | 5400 | Off for cycling |
| 01-Aug-01 | Restart | 16405.9 | 0 | 135 | 1415 | 208.0 | 0 | NA | NA | NA | NA | NA | NA | 5 | 0.2 | 5400 | |
| 09-Aug-01 | Off | 16604.1 | 100 | 138 | 1415 | 162.3 | 0 | NA | NA | NA | NA | NA | NA | 6 | 0.3 | 5403 | Off for cycling |
| 15-Aug-01 | Restart | 16604.5 | 0 | 135 | 1415 | 227.0 | 0 | NA | NA | NA | NA | NA | NA | 6 | 0.3 | 5403 | |
| 23-Aug-01 | Off | 16795.7 | 100 | 117 | 1420 | 3.2 | 0 | 8.4 | ND<1.6 | ND<1.4 | ND<2.4 | ND<1.6 | ND<1.4 | 8.4 | 0.4 | 5406 | Off for cycling |
| 04-Sep-01 | Restart | 16795.7 | 0 | 118 | 1413 | 52.6 | 0 | NA | NA | NA | NA | NA | NA | 8 | 0.4 | 5406 | |
| 14-Sep-01 | Off | 17045.1 | 100 | 114 | 1415 | 72.6 | 0 | NA | NA | NA | NA | NA | NA | 35 | 1.6 | 5423 | Off for cycling |
| 19-Sep-01 | Restart | 17046.0 | 1 | 119 | 1417 | 168.1 | 0 | 35 | ND<1.6 | ND<1.4 | 4.3 | ND<1.6 | ND<1.4 | 35 | 1.5 | 5423 | |
| 24-Sep-01 | Off | 17171.2 | 100 | 115 | 1412 | 6.6 | 0 | NA | NA | NA | NA | NA | NA | 28 | 1.3 | 5429 | Off for cycling |
| 01-Oct-01 | Restart | 17171.2 | 0 | 118 | 1449 | 152.6 | 0 | NA | NA | NA | NA | NA | NA | 28 | 1.2 | 5429 | |
| 08-Oct-01 | Off | 17340.5 | 100 | 120 | 1415 | 41.2 | 0 | NA | NA | NA | NA | NA | NA | 17 | 0.8 | 5435 | Off for cycling |
| 15-Oct-01 | Restart | 17340.6 | 0 | 118 | 1420 | NA | NA | NA | NA | NA | NA | NA | NA | 17 | 0.8 | 5435 | |
| 18-Oct-01 | On | 17413.4 | 100 | 145 | 1415 | 15.6 | 0 | 13 | ND<1.6 | ND<1.4 | ND<2.4 | ND<1.6 | ND<1.4 | 13 | 0.6 | 5437 | |
| 22-Oct-01 | Off | 17440.8 | 29 | 145 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 14 | 0.8 | 5438 | |
| 19-Nov-01 | Restart | 17440.8 | 0 | 200 | 1415 | NA | NA | NA | NA | NA | NA | NA | NA | 14 | 0.8 | 5438 | Restart following installation on new meter/pole |
| 21-Nov-01 | On | 17488.7 | 100 | 144 | 1413 | 1021.0 | 0 | 44 | ND<1.6 | ND<1.4 | ND<2.4 | ND<1.6 | ND<1.4 | 17 | 1.3 | 5440 | |
| 28-Nov-01 | Off | 17657.0 | 100 | 143 | 1418 | 56.0 | 0 | NA | NA | NA | NA | NA | NA | 20 | 1.1 | 5448 | Off for cycling |
| 05-Dec-01 | Restart | 17657.1 | 0 | 144 | 1410 | 328.4 | 0 | NA | NA | NA | NA | NA | NA | 20 | 1.1 | 5448 | |
| 14-Dec-01 | Restart | 17676.2 | 9 | 143 | 1422 | 289.0 | 4 | NA | NA | NA | NA | NA | NA | 21 | 1.1 | 5449 | Down on arrival. Process blower trip. |
| 18-Dec-01 | Off | 17697.0 | 22 | 145 | 1446 | 68.0 | 0 | 30 | ND<1.6 | ND<1.4 | ND<2.4 | ND<1.6 | ND<1.4 | 21 | 1.2 | 5450 | Off for cycling |
| 26-Dec-01 | Restart | 17697.3 | 0 | 145 | 1432 | 82.0 | 0 | NA | NA | NA | NA | NA | NA | 21 | 1.2 | 5450 | |
| 03-Jan-02 | Off | 17708.3 | 6 | 145 | 1425 | 56.0 | 0 | NA | NA | NA | NA | NA | NA | 35 | 1.9 | 5451 | Down on arrival. Tripped blower breaker. |
| 08-Jan-02 | Restart | 17708.3 | 0 | 144 | 1425 | 138.6 | 0 | NA | NA | NA | NA | NA | NA | 35 | 1.9 | 5451 | |
| 23-Jan-02 | Off | 17719.9 | 3 | 0 | NA | NA | NA | 49 | ND<1.6 | ND<1.4 | ND<2.4 | ND<1.6 | ND<1.4 | 49 | 2.7 | 5452 | Down on arrival. Blown combustion blower fuse. |
| 29-Jan-02 | Restart | 17719.9 | 0 | 144 | 1435 | 187.2 | 0 | NA | NA | NA | NA | NA | NA | 49 | 0.0 | 5452 | Replace combustion blower fuse |
| 07-Feb-02 | Restart | 17725.4 | 3 | 140 | 1430 | 89.2 | 0 | NA | NA | NA | NA | NA | NA | 59 | 3.2 | 5453 | Down on arrival. Process blower trip. |
| 12-Feb-02 | Restart | 17726.1 | 1 | 131 | 1418 | 208.0 | 0 | 60 | ND<1.6 | ND<1.4 | ND<2.4 | ND<1.6 | ND<1.4 | 60 | 3.2 | 5453 | |
| 26-Feb-02 | Restart | 17742.0 | 5 | 136 | NA | 467.3 | 0 | NA | NA | NA | NA | NA | NA | 59 | 2.9 | 5455 | Installed new float switch on k/o system |
| 08-Mar-02 | Off | 17974.6 | 97 | 137 | 1416 | 88.1 | 0 | NA | NA | NA | NA | NA | NA | 40 | 2.1 | 5475 | Off for cycling |
| 12-Mar-02 | Restart | 17974.6 | 0 | 146 | 1416 | 838.1 | 0 | NA | NA | NA | NA | NA | NA | 40 | 2.1 | 5475 | |
| 21-Mar-02 | On | 18183.5 | 97 | 143 | 1408 | 55.6 | 0 | 23 | ND<1.6 | ND<1.4 | ND<2.4 | ND<1.6 | 23.0 | 23 | 1.3 | 5486 | |
| 27-Mar-02 | Restart | 18183.5 | 0 | 147 | 1416 | 548.4 | 0 | NA | NA | NA | NA | NA | NA | 23 | 0.0 | 5486 | Restarted unit; unit off for cycling |
| 04-Apr-02 | On | 18375.6 | 100 | 143 | 1419 | 40.1 | 0 | NA | NA | NA | NA | NA | NA | 34 | 1.9 | 5502 | |
| 09-Apr-02 | Restart | 18375.6 | 0 | 145 | 1415 | 431.4 | 0 | NA | NA | NA | NA | NA | NA | 34 | 0.0 | 5502 | Restarted unit; unit off for cycling |
| 16-Apr-02 | On | 18542.3 | 99 | 142 | 1418 | 28.0 | 0 | 44 | ND<1.6 | ND<1.4 | ND<2.4 | ND<1.6 | ND<1.4 | 44 | 2.4 | 5519 | Shut unit off for cycling |
| 24-Apr-02 | Restart | 18542.4 | 0 | 143 | 1460 | 76.0 | 0 | NA | NA | NA | NA | NA | NA | 44 | 2.4 | 5519 | Restarted unit |
| 01-May-02 | On | 18700.4 | 94 | 142 | 1418 | 42.7 | 0 | NA | NA | NA | NA | NA | NA | 42 | 2.3 | 5534 | Shut unit off for cycling; removed motor for repairs. |

**TABLE 1**
**SVE SYSTEM PERFORMANCE DATA**
**ARCO FACILITY NO. 6176**
**1001 EAST AMAR ROAD**
**WEST COVINA, CALIFORNIA**

| Date Monitored | SVE System Status | Operating Time (hours) | Percent Operating Time (%) | Total System Flow Rate (cfm) | Combus. Temp. (Deg F) | Inlet VOC Conc. (PID-ppmv) | Exhaust VOC Conc. (PID-ppmv) | VFH Conc. | Inlet Benzene Conc. (lab-ppmv) | MTBE Conc. | VFH Conc. | Exhaust Benzene Conc. (lab-ppmv) | MTBE Conc. | Estimated VFH Conc. (ppmv) | Hydrocarbons Removed Daily (lbs) | Hydrocarbons Removed Cum. (lbs) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10-Jul-02 | Off | 18700.5 | 0 | 142 | 1469 | 1158.0 | 0 | NA | NA | NA | NA | NA | NA | 42 | 2.3 | 5534 | Down on arrival. Restarted -rewired motor. |
| 16-Jul-02 | On | 18843.6 | 99 | 139 | 1412 | 74.5 | 0 | 41.0 | ND<1.6 | ND<1.4 | ND<2.4 | ND<1.6 | ND<1.4 | 41 | 2.2 | 5547 | |
| 23-Jul-02 | On | 19011.3 | 100 | 138 | 1413 | 65.2 | 0 | NA | NA | NA | NA | NA | NA | 40 | 2.1 | 5562 | Shut unit off for cycling |
| 01-Aug-02 | Off | 19011.4 | 0 | 139 | NA | 94.1 | 7.3 | NA | NA | NA | NA | NA | NA | 40 | 2.1 | 5562 | |
| 07-Aug-02 | On | 19155.5 | 100 | 136 | 1421 | 79.8 | 12.6 | NA | NA | NA | NA | NA | NA | 39 | 2.1 | 5574 | |
| 14-Aug-02 | Off | 19295.2 | 83 | 136 | 1415 | 51.6 | 10.9 | NA | NA | NA | NA | NA | NA | 37 | 1.9 | 5586 | Unit off due to gw sampling |
| 25-Sep-02 | Restart | 19320 | 2 | 141 | NA | 23.1 | 0 | NA | NA | NA | NA | NA | NA | 37 | 1.9 | 5588 | |
| 3-Oct-02 | Off | 19512.1 | 100 | 143 | 1417 | 41.6 | 7.5 | NA | NA | NA | NA | NA | NA | 36 | 1.9 | 5603 | Sparge motor removed |
| 9-Oct-02 | Restart | 19512.7 | 0 | 141 | NA | 142.0 | 16.6 | NA | NA | NA | NA | NA | NA | 36 | 2.0 | 5603 | |
| 16-Oct-02 | On | 19679.8 | 99 | 142 | 1418 | 122.0 | 29.6 | NA | NA | NA | NA | NA | NA | 34 | 1.9 | 5616 | |
| 23-Oct-02 | Off | 19846.9 | 99 | 141 | 1412 | 47.9 | 2.3 | 33 | ND<1.6 | ND<1.4 | ND<2.4 | ND<1.6 | ND<1.4 | 33 | 1.8 | 5628 | |
| 30-Oct-02 | Restart | 19847.1 | 0 | 143 | 1431 | 85.2 | 12.4 | NA | NA | NA | NA | NA | NA | 33 | 1.8 | 5629 | Flame out on arrival |
| 6-Nov-02 | Restart | 20003.2 | 93 | 142 | 1426 | 116.0 | 18.3 | NA | NA | NA | NA | NA | NA | 35 | 1.9 | 5641 | Flame out on arrival |
| 13-Nov-02 | Restart | 20042.7 | 24 | 140 | 1431 | NA | NA | NA | NA | NA | NA | NA | NA | 35 | 1.9 | 5644 | Flame out on arrival |
| 14-Nov-02 | Restart | 20045.3 | 11 | 141 | 1435 | NA | NA | NA | NA | NA | NA | NA | NA | 35 | 1.9 | 5644 | Flame out on arrival |
| 21-Nov-02 | Restart | 20137.0 | 55 | 136 | 1424 | 77.8 | 11.1 | 36 | ND<1.6 | ND<1.4 | ND<2.4 | ND<1.6 | ND<1.4 | 36 | 1.9 | 5652 | Flame out on arrival |
| 27-Nov-02 | Restart | 20182.0 | 31 | 130 | 1413 | 82.6 | 0.6 | NA | NA | NA | NA | NA | NA | 34 | 1.8 | 5655 | K/O transfer pump problems |
| 4-Dec-02 | Restart | 20232.0 | 30 | 133 | 1415 | 81.3 | 10.9 | NA | NA | NA | NA | NA | NA | 32 | 1.6 | 5658 | K/O transfer pump failure |
| 11-Dec-02 | Restart | 20266.0 | 20 | 125 | 1419 | 76.8 | 4.6 | NA | NA | NA | NA | NA | NA | 31 | 1.6 | 5660 | K/O system leaking, pump to be replaced |
| 18-Dec-02 | Restart | 20324.7 | 35 | 117 | 1217 | 68.9 | 16.9 | 28 | ND<1.6 | ND<1.4 | ND<2.4 | ND<1.6 | ND<1.4 | 28 | 1.3 | 5664 | Flame out on arrival. Combus temp. during warm-up |
| 22-Dec-02 | Restart | 20356.2 | 33 | 117 | 1464 | 71.1 | 21.0 | NA | NA | NA | NA | NA | NA | 30 | 1.3 | 5665 | Flame out on arrival |
| 27-Dec-02 | Restart | 20391.5 | 29 | 121 | 1416 | 52.6 | 6.8 | NA | NA | NA | NA | NA | NA | 32 | 1.4 | 5668 | |
| 02-Jan-03 | Restart | 20423.0 | 22 | 123 | 1453 | 78.6 | 19.3 | NA | NA | NA | NA | NA | NA | 34 | 1.6 | 5670 | |
| 08-Jan-03 | Restart | 20469.7 | 32 | 129 | 1433 | 55.8 | 12.3 | NA | NA | NA | NA | NA | NA | 37 | 1.7 | 5673 | |
| 15-Jan-03 | Restart | 20513.2 | 26 | 136 | 1420 | 67.2 | 16.3 | NA | NA | NA | NA | NA | NA | 39 | 1.9 | 5677 | |
| 20-Jan-03 | Off | 20513.2 | 0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 39 | 0.0 | 5677 | Shut system off for groundwater sampling |
| 22-Jan-03 | Restart | 20559.9 | 97 | 143 | 1412 | 170 | 6.4 | 42 | ND<1.6 | ND<1.4 | ND<2.4 | ND<1.6 | ND<1.4 | 42 | 2.3 | 5681 | |
| 29-Jan-03 | Restart | 20561.8 | 1 | 143 | 1421 | 136 | 14.2 | NA | NA | NA | NA | NA | NA | 43 | 2.3 | 5681 | |
| 05-Feb-03 | On | 20730.5 | 100 | 140 | 1417 | 219 | 15.5 | NA | NA | NA | NA | NA | NA | 92 | 5.0 | 5717 | |
| 12-Feb-03 | On | 20893.0 | 97 | 139 | 1419 | 158 | 3.6 | NA | NA | NA | NA | NA | NA | 140 | 7.5 | 5767 | Turned on sparge point BC-4 |
| 19-Feb-03 | Restart | 20893.8 | 0.5 | 130 | 1474 | 912 | 12.7 | 140 | 1.8 | 1.7 | ND<2.4 | ND<1.6 | ND<1.4 | 140 | 7.5 | 5768 | System flame out at arrival; GW sampling |
| 26-Feb-03 | Restart | 20976.8 | 49.4 | 134 | 1391 | 694 | 37.9 | NA | NA | NA | NA | NA | NA | 117 | 5.8 | 5788 | System flame out at arrival |
| 06-Mar-03 | On | 21144.8 | 87.5 | 139 | 1418 | 136 | 15.4 | NA | NA | NA | NA | NA | NA | 70 | 3.6 | 5813 | |
| 12-Mar-03 | On | 21312.2 | 100 | 140 | 1414 | 61.9 | 19.6 | 24 | ND<1.6 | ND<1.4 | 2.8 | ND<1.6 | ND<1.4 | 24 | 1.3 | 5822 | |
| 20-Mar-03 | On | 21465.0 | 80 | 134 | 1415 | 820 | 48.9 * | NA | NA | NA | NA | NA | NA | 21 | 1.1 | 5829 | |
| 26-Mar-03 | On | 21610.4 | 100 | 137 | 1419 | 26.9 | 19.9 | NA | NA | NA | NA | NA | NA | 18 | 0.9 | 5835 | |
| 02-Apr-03 | On | 21779.3 | 100 | 134 | 1415 | 68.3 | 10.3 | NA | NA | NA | NA | NA | NA | 15 | 0.8 | 5840 | |
| 09-Apr-03 | On | 21950.4 | 100 | 128 | 1415 | 32 | 77.6 | NA | NA | NA | NA | NA | NA | 11 | 0.6 | 5844 | |
| 17-Apr-03 | On | 22138.4 | 98 | 129 | 1418 | 29.6 | 44.3 | NA | NA | NA | NA | NA | NA | 8 | 0.4 | 5847 | |
| 23-Apr-03 | On | 22280.3 | 99 | 129 | 1412 | 690 | 76.3 | 4.8 | ND<1.6 | ND<1.4 | ND<2.4 | ND<1.6 | ND<1.4 | 4.8 | 0.2 | 5849 | |
| 30-Apr-03 | On | 22448.0 | 100 | 136 | 1418 | 177 | 31.0 | NA | NA | NA | NA | NA | NA | 5.1 | 0.3 | 5850 | |
| 07-May-03 | Restart | 22517.3 | 41 | 135 | 1429 | 203 | 28.3 | NA | NA | NA | NA | NA | NA | 5.3 | 0.3 | 5851 | System flame out at arrival - restarted system |
| 15-May-03 | On | 22709.1 | 100 | 134 | 1416 | 23.3 | 29.3 * | NA | NA | NA | NA | NA | NA | 5.7 | 0.3 | 5854 | |
| 20-May-03 | On | 22830.7 | 100 | 132 | 1412 | 30.2 | 52 * | NA | NA | NA | NA | NA | NA | 5.9 | 0.3 | 5855 | |
| 27-May-03 | Off | 22953.1 | 73 | 33 | 77 | NA | NA | NA | NA | NA | NA | NA | NA | 6.2 | 0.3 | 5857 | System off at arrival - restart failed |
| 04-Jun-03 | Off | 22953.1 | 0 | 0 | 0 | NA | NA | NA | NA | NA | NA | NA | NA | 6.2 | 0.0 | 5857 | System under repairs |
| 11-Jun-03 | Off | 22953.1 | 0 | 0 | 0 | NA | NA | NA | NA | NA | NA | NA | NA | 6.2 | 0.0 | 5857 | System under repairs - flame rod & housing |
| 18-Jun-03 | On | 22974.5 | 13 | 167 | 1450 | >4,000 | >4,000 * | 6.2 | ND<1.6 | ND<1.4 | ND<2.4 | ND<0.059 | ND<1.4 | 6.2 | 0.4 | 5857 | |
| 25-Jun-03 | On | 23140.7 | 99 | 167 | 1452 | >4,000 | 48 | NA | NA | NA | NA | NA | NA | 6.3 | 0.4 | 5860 | |
| 02-Jul-03 | On | 23312.3 | 100 | 168 | 1448 | >4,000 | 46 | NA | NA | NA | NA | NA | NA | 6.5 | 0.4 | 5863 | |
| 10-Jul-03 | On | 23494.0 | 95 | 166 | 1452 | 3.6 | 0 | NA | NA | NA | NA | NA | NA | 6.6 | 0.4 | 5866 | |
| 16-Jul-03 | On | 23640.0 | 100 | 165 | 1450 | 0 | 0 | NA | NA | NA | NA | NA | NA | 6.7 | 0.4 | 5869 | Installed fire extinguisher on bracket & warning signs |

**TABLE 1**
**SVE SYSTEM PERFORMANCE DATA**
**ARCO FACILITY NO. 6176**
**1001 EAST AMAR ROAD**
**WEST COVINA, CALIFORNIA**

| Date Monitored | SVE System Status | Operating Time (hours) | Percent Operating Time (%) | Total System Flow Rate (cfm) | Combus. Temp. (Deg F) | Inlet VOC Conc. (PID-ppmv) | Exhaust VOC Conc. (PID-ppmv) | VFH Conc. | Inlet Benzene Conc. (lab-ppmv) | MTBE Conc. | VFH Conc. | Exhaust Benzene Conc. (lab-ppmv) | MTBE Conc. | Estimated VFH Conc. (ppmv) | Hydrocarbons Removed Daily (lbs) | Hydrocarbons Removed Cum. (lbs) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25-Jul-03 | On | 23850.9 | 98 | 166 | 1449 | 0 | 0 | NA | NA | NA | NA | NA | NA | 6.9 | 0.4 | 5872 | |
| 31-Jul-03 | On | 24001.9 | 100 | 168 | 1448 | 0 | 0 | 7.0 | ND<1.6 | ND<1.4 | 4.9 | ND<1.6 | ND<1.4 | 7.0 | 0.5 | 5875 | Greased motor & blower, checked belts |
| 07-Aug-03 | On | 24168.3 | 99 | 165 | 1450 | 0.6 | 0 | NA | NA | NA | NA | NA | NA | 5.3 | 0.3 | 5878 | |
| 12-Aug-03 | On | 24290.3 | 100 | 168 | 1449 | 0 | 0 | NA | NA | NA | NA | NA | NA | 4.0 | 0.3 | 5879 | |
| 19-Aug-03 | On | 24450.9 | 96 | 168 | 1452 | 0 | 0 | ND<2.4 | ND<1.6 | ND<1.4 | ND<2.4 | ND<1.6 | ND<1.4 | 2.4 | 0.2 | 5880 | |
| 26-Aug-03 | On | 24623.9 | 100 | 169 | 1452 | 0 | 0 | NA | NA | NA | NA | NA | NA | 3.0 | 0.2 | 5881 | |
| 04-Sep-03 | On | 24840.5 | 100 | 167 | 1452 | 0 | 0 | NA | NA | NA | NA | NA | NA | 3.7 | 0.2 | 5883 | |
| 09-Sep-03 | On | 24960.1 | 100 | 169 | 1449 | 0 | 0 | NA | NA | NA | NA | NA | NA | 4.1 | 0.3 | 5885 | |
| 16-Sep-03 | On | 25128.1 | 100 | 170 | 1449 | 1.0 | 0 | 4.6 | ND<1.6 | ND<1.4 | 5.9 | ND<1.6 | ND<1.4 | 4.6 | 0.3 | 5887 | |
| 23-Sep-03 | On | 25297.1 | 100 | 168 | 1452 | 2.1 | 0.1 | NA | NA | NA | NA | NA | NA | 4.2 | 0.3 | 5889 | |
| 30-Sep-03 | On | 25463.8 | 99 | 169 | 1451 | 0 | 0 | NA | NA | NA | NA | NA | NA | 3.8 | 0.2 | 5890 | |
| 07-Oct-03 | On | 25625.0 | 96 | 170 | 1450 | 0 | 0 | NA | NA | NA | NA | NA | NA | 3.5 | 0.2 | 5892 | |
| 14-Oct-03 | On | 25794.0 | 100 | 170 | 1449 | 13.1 | 3.5 | NA | NA | NA | NA | NA | NA | 3.1 | 0.2 | 5893 | |
| 21-Oct-03 | Off | 25931.3 | 82 | 0 | 0 | NA | NA | NA | NA | NA | NA | NA | NA | 2.8 | 0.0 | 5893 | Unit down - electrical repairs |
| 28-Oct-03 | Off | 25931.3 | 0 | 0 | 0 | NA | NA | NA | NA | NA | NA | NA | NA | 2.8 | 0.0 | 5893 | Unit down - greased blower and motor |
| 30-Oct-03 | Off | 25931.3 | 0 | 0 | 0 | NA | NA | NA | NA | NA | NA | NA | NA | 2.8 | 0.0 | 5893 | Unit down - electrical repairs |
| 04-Nov-03 | Restart | 25931.8 | 0 | 162 | 1452 | 71 | 2 | NA | NA | NA | NA | NA | NA | 2.8 | 0.2 | 5893 | Unit down - blower belt replacement |
| 11-Nov-03 | On | 26099.9 | 100 | 158 | 1452 | 0 | 0 | ND<2.4 | ND<1.6 | ND<1.4 | ND<2.4 | ND<1.6 | ND<1.4 | 2.4 | 0.1 | 5894 | |
| 12-Nov-03 | On | 26120.7 | 87 | 155 | 1452 | NA | NA | NA | NA | NA | NA | NA | NA | 5.2 | 0.3 | 5895 | AS unit off at arrival - troubleshoot SVE/AS, restarted SVE/AS |
| 18-Nov-03 | On | 26265.5 | 100 | 155 | 1449 | 29 | 0 | 25 | ND<1.6 | ND<1.4 | 2.9 | ND<1.6 | ND<1.4 | 25 | 1.5 | 5904 | Shut unit down at departure - onsite construction & rebound |
| 02-Dec-03 | Restart | 26266.4 | 0.3 | 170 | 1452 | 169 | 21 | NA | NA | NA | NA | NA | NA | 25 | 1.6 | 5904 | Restarted system from rebound |
| 09-Dec-03 | On | 26431.6 | 98 | 168 | 1451 | 10 | 0 | NA | NA | NA | NA | NA | NA | 27 | 1.8 | 5916 | |
| 16-Dec-03 | Restart | 26534.4 | 61 | 170 | 1451 | 45 | 0 | 29 | ND<1.6 | ND<1.4 | ND<2.4 | ND<1.6 | ND<1.4 | 29 | 1.9 | 5924 | |
| 22-Dec-03 | On | 26675.9 | 98 | 166 | 1449 | 36 | 0 | NA | NA | NA | NA | NA | NA | 12 | 0.7 | 5928 | Shut system off at departure - onsite construction |
| 27-Jan-04 | Off | 26675.9 | 0 | 0 | 0 | NA | NA | NA | NA | NA | NA | NA | NA | 12 | 0.0 | 5928 | Damage to lateral pipe due to construction |
| 03-Feb-04 | Restarted | 26675.9 | 0 | 0 | 0 | NA | NA | NA | NA | NA | NA | NA | NA | 12 | 0.0 | 5928 | Lateral pipe repaired; checked all lines to system |
| 05-Feb-04 | On | 26723.9 | 100 | 182 | 1448 | 20 | 0 | 5.6 | ND<1.6 | ND<1.4 | ND<2.4 | ND<1.6 | ND<1.4 | 5.6 | 0.4 | 5929 | |
| 10-Feb-04 | Restarted | 26806.9 | 69 | 196 | 1452 | 0 | 0 | NA | NA | NA | NA | NA | NA | 5 | 0.4 | 5930 | Float switch shutdown; restarted system |
| 03-Mar-04 | Off | 26806.9 | 0 | 0 | 0 | NA | NA | NA | NA | NA | NA | NA | NA | 0 | 0.0 | 5930 | System down pending repairs on flow gauge and air sparge blower motor |
| 13-May-04 | Restarted | 26806.9 | 0 | 0 | 0 | NA | NA | NA | NA | NA | NA | NA | NA | 0 | 0.0 | 5930 | Repaired AS manifold |
| 18-May-04 | On | 27026.6 | 100 | 167 | 1477 | 21 | 0 | ND<2.8 | ND<1.6 | ND<1.4 | ND<2.8 | ND<1.6 | ND<1.4 | 2.8 | 0.2 | 5932 | Conducted rebound test |
| 25-May-04 | Off | 27149.9 | 73 | 0 | 0 | 0 | 0 | NA | NA | NA | NA | NA | NA | 0.0 | 0.0 | 5932 | Unit down - tripped blower motor. System under repairs |

**The SVE system was shut down during the fourth quarter of 2004 and biosparging at the site was implemented in place of soil vapor extraction.**

Notes:

| | | | |
|---|---|---|---|
| SVE | = Soil vapor extraction | PID-ppmv | = Field reading - parts per million by volume (by photoionization or flame ionization detector) |
| AS | = Air sparge | VFH | = Volatile fuel hydrocarbons by Environmental Protection Agency (EPA) Method 8015/Modified 8015B |
| cfm | = Cubic feet per minute | lab-ppmv | = Laboratory reported concentration - parts per million by volume |
| Combus. | = Combustion | lbs | = Pounds |
| Temp. | = Temperature | Cum. | = Cumulative |
| Deg F | = Degrees Fahrenheit | NA | = Not applicable/available |
| VOC | = Volatile organic compound | ND | = Not detected at or above detection limit |
| Conc. | = Concentration | MTBE | = Methyl tertiary butyl ether by Environmental Protection Agency Method 8021B |
| Benzene | = Benzene by EPA Method 8020/8021B/410A | K/O | = Knock out |
| * | = moisture in the lines | | |

**TABLE 2**
**INDIVIDUAL WELL FIELD CONCENTRATION DATA**
**ARCO FACILITY NO. 6176**
**1001 EAST AMAR ROAD**
**WEST COVINA, CALIFORNIA**

| Date Monitored | BC-1 (note1) VOC Conc. (ppmv) | Status Departure (O/C) BC-1 | VW-4 | VW-5 | VW-6 | GW-1 VOC Conc. (ppmv) | Status Departure (O/C) | BC-5 (note 2) VOC Conc. (ppmv) | Status Departure (O/C) BC-5 | VW-7 | VW-8 | BC-3 VOC Conc. (ppmv) | Status Departure (O/C) | BC-6 VOC Conc. (ppmv) | Status Departure (O/C) | BC-7 VOC Conc. (ppmv) | Status Departure (O/C) | VW-3 VOC Conc. (ppmv) | Status Departure (O/C) | BC-4 VOC Conc. (ppmv) | Status Departure (O/C) | VW-2 VOC Conc. (ppmv) | Status Departure (O/C) | VW-1 VOC Conc. (ppmv) | Status Departure (O/C) | GW-2 VOC Conc. (ppmv) | Status Departure (O/C) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6-May-97 | 4750+ | Open | -- | -- | -- | 2750+ | Open | 8400 | Open | -- | -- | 5475 | Open | 7400+ | Open | 4700+ | Open | 3170+ | Open | 4180 | Open | 7335+ | Open | 2547+ | Open | 2100+ | Open |
| 13-May-97 | 2441 | Open | -- | -- | -- | 7000+ | Open | 2345 | Open | -- | -- | 1729 | Open | 1611 | Open | 2142 | Open | 2552 | Open | 2109 | Open | 1504 | Open | 1789 | Open | 2414 | Open |
| 27-May-97 | 2643 | Open | -- | -- | -- | 7000+ | Open | 2210 | Open | -- | -- | 1843 | Open | 1899 | Open | 1410 | Open | 2654 | Open | 2315 | Open | 1312 | Open | 1653 | Open | 2613 | Open |
| 3-Jun-97 | 1856 | Open | -- | -- | -- | 1660 | Open | 2202 | Open | -- | -- | 1681 | Open | 2107 | Open | 2867 | Open | 1870 | Open | 1449 | Open | 1363 | Open | 1675 | Open | NA | Open |
| 10-Jul-97 | 2110 | Open | -- | -- | -- | 1321 | Open | 2633 | Open | -- | -- | 1123 | Open | 2406 | Open | 3342 | Open | 1933 | Open | 1679 | Open | 1431 | Open | 1822 | Open | 1431 | Open |
| 15-Jul-97 | 1873 | Open | -- | -- | -- | 1021 | Open | 2741 | Open | -- | -- | 1343 | Open | 2377 | Open | 3030 | Open | 1871 | Open | 1510 | Open | 1383 | Open | 1943 | Open | 1261 | Open |
| 22-Jul-97 | 211 | Open | -- | -- | -- | 181 | Open | 510 | Open | -- | -- | 621 | Open | 1243 | Open | 760 | Open | 7000+ | Open | 7000+ | Open | 3612 | Open | 7000+ | Open | 7000+ | Open |
| 6-Aug-97 | 183 | Open | -- | -- | -- | 211 | Open | 647 | Open | -- | -- | 518 | Open | 1107 | Open | 1461 | Open | 4164 | Open | 7459+ | Open | 7459+ | Open | 3330 | Open | 2833 | Open |
| 12-Aug-97 | 223 | Open | -- | -- | -- | 333 | Open | 510 | Open | -- | -- | 423 | Open | 1096 | Open | 1223 | Open | 3944 | Open | 7500+ | Open | 7500+ | Open | 2871 | Open | 2163 | Open |
| 20-Aug-97 | 181 | Open | -- | -- | -- | 210 | Open | 433 | Open | -- | -- | 621 | Open | 1210 | Open | 1093 | Open | 2933 | Open | 7500+ | Open | 7500+ | Open | 2433 | Open | 2061 | Open |
| 29-Aug-97 | 300 | Open | -- | -- | -- | 436 | Open | 512 | Open | -- | -- | 615 | Open | 1312 | Open | 743 | Open | 7400+ | Open | 7400+ | Open | 5611 | Open | 7400+ | Open | 7400+ | Open |
| 2-Sep-97 | 340 | Open | -- | -- | -- | 399 | Open | 404 | Open | -- | -- | 315 | Open | 1284 | Open | 437 | Open | 7455+ | Open | 7455+ | Open | 4036 | Open | 7455+ | Open | 7455+ | Open |
| 9-Sep-97 | 310 | Open | -- | -- | -- | 211 | Open | 621 | Open | -- | -- | 418 | Open | 1155 | Open | 222 | Open | 7400+ | Open | 7400+ | Open | 3311 | Open | 7400+ | Open | 7400+ | Open |
| 24-Sep-97 | 211 | Open | -- | -- | -- | 181 | Open | 510 | Open | -- | -- | 621 | Open | 1243 | Open | 761 | Open | 7000+ | Open | 7000+ | Open | 3612 | Open | 7000+ | Open | 7000+ | Open |
| 2-Oct-97 | 183 | Open | -- | -- | -- | 163 | Open | 433 | Open | -- | -- | 510 | Open | 1040 | Open | 531 | Open | 7000+ | Open | 7000+ | Open | 3341 | Open | 7000+ | Open | 7000+ | Open |
| 10-Oct-97 | 214 | Open | -- | -- | -- | 73 | Open | 45 | Open | -- | -- | 280 | Open | 514 | Open | 246 | Open | 2784 | Open | 6700+ | Open | 2610 | Open | 2941 | Open | 275 | Open |
| 24-Oct-97 | 141 | Open | -- | -- | -- | 136 | Open | 511 | Open | -- | -- | 481 | Open | 963 | Open | 588 | Open | NA | Closed | NA | Closed | NA | Closed | NA | Closed | 7000+ | Open |
| 30-Oct-97 | 110 | Open | -- | -- | -- | 86 | Open | 489 | Open | -- | -- | 371 | Open | 1010 | Open | 686 | Open | NA | Closed | NA | Closed | 4212 | 25% Open | NA | Closed | 7000+ | Open |
| 5-Nov-97 | 502 | Open | -- | -- | -- | 207 | Open | 233 | Open | -- | -- | 1764 | Open | 2121 | Open | 277 | Open | NA | Closed | NA | Closed | 540 | 50% Open | 2423 | 50% Open | 3150 | Open |
| 13-Nov-97 | 433 | Open | -- | -- | -- | 181 | Open | 210 | Open | -- | -- | 1643 | Open | 2410 | Open | 361 | Open | NA | Closed | NA | Closed | NA | Closed | NA | Closed | 3430 | Open |
| 21-Nov-97 | 310 | Open | -- | -- | -- | 173 | Open | 243 | Open | -- | -- | 1891 | Open | 3420 | Open | 243 | Open | NA | Closed | NA | Closed | NA | Closed | NA | Closed | 3631 | Open |
| 25-Nov-97 | 283 | Open | -- | -- | -- | 436 | Open | 210 | Open | -- | -- | 1653 | Open | 3861 | Open | 333 | Open | NA | Closed | NA | Closed | NA | Closed | NA | Closed | 3364 | Open |
| 3-Dec-97 | 412 | Open | -- | -- | -- | 163 | Open | 346 | Open | -- | -- | 1910 | Open | 3361 | Open | 231 | Open | NA | Closed | NA | Closed | NA | Closed | NA | Closed | 3533 | Open |
| 19-Dec-97 | 361 | Open | -- | -- | -- | 511 | Open | 491 | Open | -- | -- | 1683 | Open | 4263 | Open | 367 | Open | NA | Closed | NA | Closed | NA | Closed | NA | Closed | 3769 | Open |
| 23-Jan-98 | 346 | Open | -- | -- | -- | 381 | Open | 570 | Open | -- | -- | 1891 | Open | 4233 | Open | 461 | Open | NA | Closed | NA | Closed | NA | Closed | NA | Closed | 2874 | Open |
| 30-Jan-98 | 312 | Open | -- | -- | -- | 614 | Open | 322 | Open | -- | -- | 1653 | Open | 4674 | Open | 310 | Open | NA | Closed | NA | Closed | NA | Closed | NA | Closed | 3241 | Open |
| 11-Feb-98 | 7103+ | Open | -- | -- | -- | 7103+ | Open | 7103+ | Open | -- | -- | 7103+ | Open | 7103+ | Open | 7103+ | Open | NA | Closed | NA | Closed | NA | Closed | NA | Closed | 7103+ | Open |
| 22-Dec-98 | 0 | Closed | -- | -- | -- | 6.2 | Closed | 255.7 | Closed | -- | -- | 1257 | Open | 295.7 | Closed | 9680 | Open | 1205 | Open | 1435 | Open | 728.9 | Closed | 2230 | Open | 263.2 | Closed |
| 6-Jan-99 | NA | Open | -- | -- | -- | NA | Open | NA | Open | -- | -- | NA | Open | NA | Open | NA | Open | NA | Closed | NA | Open | NA | Open | NA | Open | NA | Open |
| 11-Jan-99 | NA | Open | -- | -- | -- | NA | Open | NA | Open | -- | -- | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open |
| 22-Jan-99 | NA | Open | -- | -- | -- | NA | Open | NA | Open | -- | -- | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open |
| 27-Jan-99 | 1.2 | Closed | -- | -- | -- | 8.7 | Closed | 209.4 | Closed | -- | -- | 1360 | Open | 308.9 | Closed | 8790 | Open | 1560 | Open | 2010 | Open | 887.1 | Closed | 4460 | Open | 318.7 | Closed |
| 2-Feb-99 | 1.6 | Closed | -- | -- | -- | 10.4 | Closed | 189.7 | Closed | -- | -- | 1440 | Open | 264.5 | Closed | 8544 | Open | 1780 | Open | 2230 | Open | 754.6 | Closed | 4010 | Open | 328.1 | Closed |
| 8-Feb-99 | 1.9 | Closed | -- | -- | -- | 12.6 | Closed | 208.9 | Closed | -- | -- | 1240 | Open | 200.1 | Closed | 6450 | Open | 1238 | Open | 1870 | Open | 667.3 | Closed | 3870 | Open | 299.4 | Closed |
| 16-Feb-99 | 0.5 | Closed | -- | -- | -- | 0.4 | Closed | 9.1 | Closed | -- | -- | 3.9 | Open | 276.5 | Closed | 21441 | Open | 866.1 | Open | 443.3 | Open | 13.5 | Closed | 1415 | Open | 28.1 | Closed |
| 26-Feb-99 | 0 | Closed | -- | -- | -- | 1.2 | Closed | 12.6 | Closed | -- | -- | 0 | Open | 256.7 | Closed | 15400 | Open | 669.7 | Open | 338.9 | Open | 18.4 | Closed | 1680 | Open | 36.8 | Closed |
| 3-Mar-99 | 0 | Closed | -- | -- | -- | 0 | Closed | 15.8 | Closed | -- | -- | 1 | Open | 384.1 | Closed | 20110 | Open | 881.4 | Open | 404.6 | Open | 22.1 | Closed | 1820 | Open | 40.8 | Closed |
| 15-Mar-99 | NA | Closed | -- | -- | -- | NA | Closed | NA | Closed | -- | -- | NA | Open | NA | Closed | NA | Open | NA | Open | NA | Open | NA | Closed | NA | Open | NA | Closed |
| 30-Mar-99 | 2.3 | Open | Open | Open | Open | 322.6 | Open | 238.7 | Open | Open | Open | 47.4 | Open | 3618 | Open | 1680 | Open | 2122 | Open | 18261 | Open | 150.9 | Open | 5091 | Open | 464.6 | Open |
| 13-Apr-99 | 6.3 | Closed | C | C | C | 8 | Closed | 7.8 | C | C | C | 13.8 | Closed | 1315 | Open | 1875 | Open | 135.6 | 50% O | 99.5 | Open | 29.7 | Closed | 207.3 | Open | 36.1 | Closed |
| 20-Apr-99 | 5.3 | Closed | C | C | C | 7.2 | Closed | 10.2 | C | C | C | 15.9 | Closed | 1180 | Open | 1665 | Open | 147.6 | 50% O | 80.9 | Closed | 31.4 | Closed | 253.8 | Open | 26.7 | Closed |
| 27-Apr-99 | 2.4 | Closed | C | C | C | 0 | Closed | 0.7 | C | C | C | 0 | Closed | 865.8 | Open | 1130 | Open | 125.6 | 50% O | 16.6 | Closed | 0 | Closed | 198.3 | Open | 9 | Closed |
| 3-May-99 | 4.7 | Closed | C | C | C | 0 | Closed | 0 | C | C | C | 0 | Closed | 667.8 | Open | 938.1 | Open | 120.4 | 50% O | 28.7 | Closed | 0.2 | Closed | 168.4 | Open | 8.7 | Closed |
| 11-May-99 | 6.8 | Closed | C | C | C | 0 | Closed | 0 | C | C | C | 0 | Closed | 742.3 | Open | 889.9 | Open | 130.4 | 50% O | 30.9 | Closed | 0 | Closed | 154.8 | Open | 6.2 | Closed |
| 17-May-99 | 5.4 | Closed | C | C | C | 0 | Closed | 0 | C | C | C | 0 | Closed | 776.3 | Open | 628.6 | Open | 110.2 | 50% O | 28.7 | Closed | 0 | Closed | 140.9 | Open | 4.8 | Closed |
| 27-May-99 | 0 | Closed | C | C | C | 0 | Closed | 2.3 | C | C | C | 0 | Closed | 113.7 | Open | 325.8 | Open | 112.1 | 50% O | 32 | Closed | 3.4 | Closed | 209.5 | Open | 4.3 | Closed |
| 1-Jun-99 | 0 | Closed | C | C | C | 0 | Closed | 2.1 | C | C | C | 0 | Closed | 289.6 | Open | 628.9 | Open | 201.4 | 50% O | 48.6 | Closed | 2.1 | Closed | 330.1 | Open | 5.4 | Closed |
| 6-Jun-99 | NA | Closed | C | C | C | NA | Closed | NA | C | C | C | NA | Closed | NA | Open | NA | Open | NA | 50% O | NA | Closed | NA | Closed | NA | Open | NA | Closed |
| 1-Sep-99 | NA | Closed | C | C | C | NA | Closed | NA | C | C | C | NA | Closed | NA | Open | NA | Open | NA | 50% O | NA | Closed | NA | Closed | NA | Open | NA | Closed |
| 10-Sep-99 | NA | Closed | C | C | C | NA | Closed | NA | C | C | C | NA | Closed | NA | Open | NA | Open | NA | 50% O | NA | Closed | NA | Closed | NA | Open | NA | Closed |
| 14-Sep-99 | NA | Closed | C | C | C | NA | Closed | NA | C | C | C | NA | Closed | NA | Open | NA | Open | NA | 50% O | NA | Closed | NA | Closed | NA | Open | NA | Closed |
| 21-Sep-99 | NA | Closed | C | C | C | NA | Closed | NA | C | C | C | NA | Closed | NA | Open | NA | Open | NA | 50% O | NA | Closed | NA | Closed | NA | Open | NA | Closed |
| 29-Sep-99 | NA | Closed | C | C | C | NA | Closed | NA | C | C | C | NA | Closed | NA | Open | NA | Open | NA | 50% O | NA | Closed | NA | Closed | NA | Open | NA | Closed |
| 5-Oct-99 | NA | Closed | C | C | C | NA | Closed | NA | C | C | C | NA | Closed | NA | Open | NA | Open | NA | 50% O | NA | Closed | NA | Closed | NA | Open | NA | Closed |
| 12-Oct-99 | NA | Closed | C | C | C | NA | Closed | NA | C | C | C | NA | Closed | NA | Open | NA | Open | NA | 50% O | NA | Closed | NA | Closed | NA | Open | NA | Closed |
| 22-Oct-99 | NA | Open | C | C | C | NA | Closed | NA | Open | C | C | NA | Closed | NA | Open | NA | Open | NA | Open | NA | Closed | NA | Closed | NA | Open | NA | Closed |

**TABLE 2**
**INDIVIDUAL WELL FIELD CONCENTRATION DATA**
**ARCO FACILITY NO. 6176**
**1001 EAST AMAR ROAD**
**WEST COVINA, CALIFORNIA**

| Date Monitored | BC-1 (note1) VOC Conc. (ppmv) | BC-1 Status Departure (O/C) | VW-4 Status Departure (O/C) | VW-5 Status Departure (O/C) | VW-6 Status Departure (O/C) | GW-1 VOC Conc. (ppmv) | GW-1 Status Departure (O/C) | BC-5 (note 2) VOC Conc. (ppmv) | BC-5 Status Departure (O/C) | VW-7 Status Departure (O/C) | VW-8 Status Departure (O/C) | BC-3 VOC Conc. (ppmv) | BC-3 Status Departure (O/C) | BC-6 VOC Conc. (ppmv) | BC-6 Status Departure (O/C) | BC-7 VOC Conc. (ppmv) | BC-7 Status Departure (O/C) | VW-3 VOC Conc. (ppmv) | VW-3 Status Departure (O/C) | BC-4 VOC Conc. (ppmv) | BC-4 Status Departure (O/C) | VW-2 VOC Conc. (ppmv) | VW-2 Status Departure (O/C) | VW-1 VOC Conc. (ppmv) | VW-1 Status Departure (O/C) | GW-2 VOC Conc. (ppmv) | GW-2 Status Departure (O/C) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 29-Oct-99 | NA | Open | C | C | C | NA | Closed | NA | Open | C | C | NA | Closed | NA | Open | NA | Open | NA | Open | NA | Closed | NA | Closed | NA | Open | NA | Closed |
| 4-Nov-99 | NA | Open | C | C | C | NA | Closed | NA | Open | C | C | NA | Closed | NA | Open | NA | Open | NA | Open | NA | Closed | NA | Closed | NA | Open | NA | Closed |
| 5-Nov-99 | NA | Open | C | C | C | NA | Closed | NA | Open | C | C | NA | Closed | NA | Open | NA | Open | NA | Open | NA | Closed | NA | Closed | NA | Open | NA | Closed |
| 11-Nov-99 | NA | Open | C | C | C | NA | Closed | NA | Open | C | C | NA | Closed | NA | Open | NA | Open | NA | Open | NA | Closed | NA | Closed | NA | Open | NA | Closed |
| 18-Nov-99 | 1.4 | Open | Open | Open | Open | 0 | Closed | 24.7 | Open | Open | Open | 0 | Closed | 35.1 | Closed | 240 | Open | 334.6 | Open | 121.7 | Open | 13.7 | Closed | 701.4 | Open | 62.8 | Closed |
| 3-Jan-00 | NA | Open | Open | Open | Open | NA | Open | NA | Open | Open | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open |
| 4-Jan-00 | NA | Open | Open | Open | Open | NA | Open | NA | Open | Open | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open |
| 6-Jan-00 | NA | Open | Open | Open | Open | NA | Open | NA | Open | Open | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open |
| 10-Jan-00 | 25.1 | Open | Open | Open | Open | 0 | Closed | 35.4 | Open | Open | Open | 0 | Closed | 15.3 | Closed | 488.6 | Open | 628.9 | Open | 385.1 | Open | 20.2 | Closed | 1220 | Open | 17.5 | Closed |
| 17-Jan-00 | NA | Open | Open | Open | Open | NA | Closed | NA | Open | Open | Open | NA | Closed | NA | Closed | NA | Open | NA | Open | NA | Open | NA | Closed | NA | Open | NA | Closed |
| 24-Jan-00 | 4 | Open | Open | Open | Open | 4.9 | Closed | 14.5 | Open | Open | Open | 2.2 | Closed | 394.8 | Open | 228.7 | Open | 2863 | Open | 612.8 | Open | 45.6 | Closed | 3962 | Open | 10.6 | Closed |
| 26-Jan-00 | NA | Open | Open | Open | Open | NA | Closed | NA | Open | Open | Open | NA | Closed | NA | Open | NA | Open | NA | Open | NA | Open | NA | Closed | NA | Open | NA | Closed |
| 1-Feb-00 | NA | Open | Open | Open | Open | NA | Closed | NA | Open | Open | Open | NA | Closed | NA | Open | NA | Open | NA | Open | NA | Open | NA | Closed | NA | Open | NA | Closed |
| 28-Feb-00 | NA | Open | Open | Open | Open | NA | Closed | NA | Open | Open | Open | NA | Closed | NA | Open | NA | Open | NA | Open | NA | Open | NA | Closed | NA | Open | NA | Closed |
| 2-Mar-00 | NA | Open | Open | Open | Open | NA | Closed | NA | Open | Open | Open | NA | Closed | NA | Open | NA | Open | NA | Open | NA | Open | NA | Closed | NA | Open | NA | Closed |
| 22-Mar-00 | NA | Open | Open | Open | Open | NA | Closed | NA | Open | Open | Open | NA | Closed | NA | Open | NA | Open | NA | Open | NA | Open | NA | Closed | NA | Open | NA | Closed |
| 29-Mar-00 | 0 | Closed | C | C | C | 0 | Closed | 0 | Closed | C | C | 0 | Closed | 3.8 | Closed | 6.2 | Closed | 112.6 | Open | 12.6 | Open | 0 | Closed | 957.1 | Open | 0 | Closed |
| 2-May-00 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 8-May-00 | NA | Closed | C | C | C | NA | Closed | NA | Closed | C | C | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed |
| 11-May-00 | NA | Open | Open | Open | Open | NA | Open | NA | Open | Open | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open |
| 12-May-00 | NA | Open | Open | Open | Open | NA | Open | NA | Open | Open | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open |
| 17-May-00 | 3.5 | Closed | C | C | C | 0 | Closed | 0 | Closed | C | C | 0 | Closed | 17.2 | Closed | 16.9 | Open | 23.8 | Open | 13.9 | 50% O | 0 | Closed | 115.4 | Open | 9.6 | Closed |
| 24-May-00 | NA | Closed | C | C | C | NA | Closed | NA | Closed | C | C | NA | Closed | NA | Closed | NA | Closed | NA | 50% O | NA | 50% O | NA | Closed | NA | Open | NA | Closed |
| 25-May-00 | 0 | Closed | C | C | C | 0 | Closed | 0 | Closed | C | C | 0 | Closed | 15.4 | Closed | 13.2 | Closed | 44.9 | 50% O | 52.6 | 50% O | 0 | Closed | 185.7 | Open | 8.4 | Closed |
| 31-May-00 | NA | Closed | C | C | C | NA | Closed | NA | Closed | C | C | NA | Closed | NA | Closed | NA | Closed | NA | 50% O | NA | 50% O | NA | Closed | NA | Open | NA | Closed |
| 3-Jun-00 | NA | Closed | C | C | C | NA | Closed | NA | Closed | C | C | NA | Closed | NA | Closed | NA | Closed | NA | 50% O | NA | 50% O | NA | Closed | NA | Open | NA | Closed |
| 7-Jun-00 | NA | Closed | C | C | C | NA | Closed | NA | Closed | C | C | NA | Closed | NA | Closed | NA | Closed | NA | 50% O | NA | 50% O | NA | Closed | NA | Open | NA | Closed |
| 14-Jun-00 | NA | Closed | C | C | C | NA | Closed | NA | Closed | C | C | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed |
| 5-Jul-00 | NA | Closed | C | C | C | NA | Closed | NA | Closed | C | C | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed |
| 10-Jul-00 | NA | Open | Open | Open | Open | NA | Open | NA | Open | Open | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open |
| 12-Jul-00 | NA | Closed | C | C | C | NA | Closed | NA | Closed | C | C | NA | Closed | NA | Closed | NA | Closed | NA | 50% O | NA | 50% O | NA | Closed | NA | Open | NA | Closed |
| 19-Jul-00 | 2.4 | Closed | C | C | C | 0 | Closed | 11.4 | Closed | C | C | 0 | Closed | 0 | Closed | 0.7 | Closed | 31.2 | Open | 18.7 | 50% O | 2.3 | Closed | 625.7 | Open | 0 | Closed |
| 28-Jul-00 | NA | Closed | C | C | C | NA | Closed | NA | Closed | C | C | NA | Closed | NA | Closed | NA | Closed | NA | Open | NA | 50% O | NA | Closed | NA | Open | NA | Closed |
| 3-Aug-00 | NA | Closed | C | C | C | NA | Closed | NA | Closed | C | C | NA | Closed | NA | Closed | NA | Closed | NA | Open | NA | 50% O | NA | Closed | NA | Open | NA | Closed |
| 8-Aug-00 | NA | Closed | C | C | C | NA | Closed | NA | Closed | C | C | NA | Closed | NA | Closed | NA | Closed | NA | Open | NA | 50% O | NA | Closed | NA | Open | NA | Closed |
| 16-Aug-00 | 3.3 | Closed | C | C | C | 0 | Closed | 0 | Closed | C | C | 0 | Closed | 475.6 | Open | 0 | Closed | 60.9 | 50% O | 27.1 | Closed | 0 | Closed | 2401 | Open | 192.6 | Open |
| 23-Aug-00 | NA | Closed | C | C | C | NA | Closed | NA | Closed | C | C | NA | Closed | NA | Open | NA | Closed | NA | 50% O | NA | Closed | NA | Closed | NA | Open | NA | Open |
| 29-Aug-00 | NA | 50% O | 50% O | 50% O | 50% O | NA | Closed | NA | 50% O | 50% O | 50% O | NA | Closed | NA | Open | NA | Closed | NA | 50% O | NA | Closed | NA | Closed | NA | Open | NA | Open |
| 6-Sep-00 | NA | 50% O | 50% O | 50% O | 50% O | NA | Closed | NA | 50% O | 50% O | 50% O | NA | Closed | NA | Open | NA | Closed | NA | 50% O | NA | Closed | NA | Closed | NA | Open | NA | Open |
| 13-Sep-00 | NA | 50% O | 50% O | 50% O | 50% O | NA | Closed | NA | 50% O | 50% O | 50% O | NA | Closed | NA | Open | NA | Closed | NA | 50% O | NA | Closed | NA | Closed | NA | Open | NA | Open |
| 19-Sep-00 | NA | 50% O | 50% O | 50% O | 50% O | NA | Closed | NA | 50% O | 50% O | 50% O | NA | Closed | NA | Open | NA | Closed | NA | 50% O | NA | Closed | NA | Closed | NA | Open | NA | Open |
| 26-Sep-00 | 0 | 25% O | 25% O | 25% O | 25% O | 0 | Closed | 0 | 25% O | 25% O | 25% O | 0 | Closed | 0 | Closed | 28.9 | Open | 9.6 | Closed | 0 | 25% O | 0 | Closed | 405.2 | Open | 0 | Closed |
| 3-Oct-00 | NA | 25% O | 25% O | 25% O | 25% O | NA | Closed | NA | 25% O | 25% O | 25% O | NA | Closed | NA | Closed | NA | 50% O | NA | Closed | NA | 25% O | NA | Closed | NA | Open | NA | Closed |
| 10-Oct-00 | NA | 25% O | 25% O | 25% O | 25% O | NA | Closed | NA | 25% O | 25% O | 25% O | NA | Closed | NA | Closed | NA | 50% O | NA | Closed | NA | 25% O | NA | Closed | NA | Open | NA | Closed |
| 17-Oct-00 | NA | 25% O | 25% O | 25% O | 25% O | NA | Closed | NA | 25% O | 25% O | 25% O | NA | Closed | NA | Closed | NA | 50% O | NA | Closed | NA | 25% O | NA | Closed | NA | Open | NA | Closed |
| 24-Oct-00 | 0.1 | 25% O | 25% O | 25% O | 25% O | 0.6 | Closed | 0.9 | 25% O | 25% O | 25% O | 0 | Closed | 0 | Closed | 38.2 | 50% O | 12.9 | Closed | 1.2 | 25% O | 0 | Closed | 353.2 | Open | 0 | Closed |
| 31-Oct-00 | NA | 25% O | 25% O | 25% O | 25% O | NA | Closed | NA | 25% O | 25% O | 25% O | NA | Closed | NA | Closed | NA | 50% O | NA | Closed | NA | 25% O | NA | Closed | NA | Open | NA | Closed |
| 7-Nov-00 | NA | 25% O | 25% O | 25% O | 25% O | NA | Closed | NA | 25% O | 25% O | 25% O | NA | Closed | NA | Closed | NA | 50% O | NA | Closed | NA | 25% O | NA | Closed | NA | Open | NA | Closed |
| 15-Nov-00 | NA | Open | Open | Open | Open | NA | Open | NA | Open | Open | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open |
| 17-Nov-00 | NA | Open | Open | Open | Open | NA | Open | NA | Open | Open | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open |
| 18-Nov-00 | NA | Closed | Closed | Closed | Closed | NA | Closed | NA | Closed | Closed | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed |
| 28-Nov-00 | NA | Closed | Closed | Closed | Closed | NA | Closed | NA | Closed | Closed | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed |
| 5-Dec-00 | 0.4 | 25% O | 25% O | 25% O | 25% O | 0 | Closed | 0 | 25% O | 25% O | 25% O | 75.4 | Closed | 9.2 | Closed | 0 | Closed | 103.4 | Open | 0.8 | Closed | 0 | Closed | 465.7 | Open | 44.7 | 50 % O |
| 11-Dec-00 | NA | 25% O | 25% O | 25% O | 25% O | NA | Closed | NA | 25% O | 25% O | 25% O | NA | Closed | NA | Closed | NA | Closed | NA | Open | NA | Closed | NA | Closed | NA | Open | NA | 50 % O |
| 17-Dec-00 | NA | 25% O | 25% O | 25% O | 25% O | NA | Closed | NA | 25% O | 25% O | 25% O | NA | Closed | NA | Closed | NA | Closed | NA | Open | NA | Closed | NA | Closed | NA | Open | NA | 50 % O |
| 27-Dec-00 | NA | 25% O | 25% O | 25% O | 25% O | NA | Closed | NA | 25% O | 25% O | 25% O | NA | Closed | NA | Closed | NA | Closed | NA | Open | NA | Closed | NA | Closed | NA | Open | NA | 50 % O |

**TABLE 2**
**INDIVIDUAL WELL FIELD CONCENTRATION DATA**
**ARCO FACILITY NO. 6176**
**1001 EAST AMAR ROAD**
**WEST COVINA, CALIFORNIA**

| Date Monitored | BC-1 (note1) VOC Conc. (ppmv) | BC-1 Status Departure (O/C) | VW-4 Status Departure (O/C) | VW-5 Status Departure (O/C) | VW-6 Status Departure (O/C) | GW-1 VOC Conc. (ppmv) | GW-1 Status Departure (O/C) | BC-5 (note 2) VOC Conc. (ppmv) | BC-5 Status Departure (O/C) | VW-7 Status Departure (O/C) | VW-8 Status Departure (O/C) | BC-3 VOC Conc. (ppmv) | BC-3 Status Departure (O/C) | BC-6 VOC Conc. (ppmv) | BC-6 Status Departure (O/C) | BC-7 VOC Conc. (ppmv) | BC-7 Status Departure (O/C) | VW-3 VOC Conc. (ppmv) | VW-3 Status Departure (O/C) | BC-4 VOC Conc. (ppmv) | BC-4 Status Departure (O/C) | VW-2 VOC Conc. (ppmv) | VW-2 Status Departure (O/C) | VW-1 VOC Conc. (ppmv) | VW-1 Status Departure (O/C) | GW-2 VOC Conc. (ppmv) | GW-2 Status Departure (O/C) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8-Jan-01 | NA | 25%O | 25%O | 25%O | 25%O | NA | Open | NA | 25%O | 25%O | 25%O | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open |
| 31-Jan-01 | 1.0 | 25%O | 25%O | 25%O | 25%O | NA | Closed | NA | 25%O | 25%O | 25%O | NA | Closed | NA | Closed | NA | Closed | 15.3 | 50% O | NA | Closed | 1.3 | Closed | 192.5 | Open | 3.9 | 25% O |
| 16-Feb-01 | NA | 25%O | 25%O | 25%O | 25%O | NA | Closed | NA | 25%O | 25%O | 25%O | NA | Closed | NA | Closed | NA | Closed | NA | 50% O | NA | Closed | NA | Closed | NA | Open | NA | 25% O |
| 21-Feb-01 | NA | 25% O | 25% O | 25% O | 25% O | NA | Closed | NA | 25% O | 25% O | 25% O | NA | Closed | NA | Closed | NA | Closed | NA | 50% O | NA | Closed | NA | Closed | NA | Open | NA | 25 % O |
| 25-Feb-01 | NA | 25% O | 25% O | 25% O | 25% O | NA | Closed | NA | 25% O | 25% O | 25% O | NA | Closed | NA | Closed | NA | Closed | NA | 50% O | NA | Closed | NA | Closed | NA | Open | NA | Closed |
| 28-Feb-01 | 1.9 | 25% O | 25% O | 25% O | 25% O | 0 | Closed | 2.8 | 25% O | 25% O | 25% O | 0.2 | Closed | 0 | Closed | 0 | Closed | 89.2 | 50% O | 9.8 | Closed | 12.2 | Closed | 146.7 | Open | 47.9 | 50 % O |
| 16-Mar-01 | NA | 25%O | 25%O | 25%O | 25%O | NA | Closed | NA | 25%O | 25%O | 25%O | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed |
| 27-Mar-01 | NA | 25%O | 25%O | 25%O | 25%O | NA | Open | NA | 25%O | 25%O | 25%O | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open |
| 30-Mar-01 | NA | 25%O | 25%O | 25%O | 25%O | 0.5 | Closed | NA | 25%O | 25%O | 25%O | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | 1.6 | 50% O | 32.4 | Open | NA | Closed |
| 5-Apr-01 | NA | 25%O | 25%O | 25%O | 25%O | NA | Open | NA | 25%O | 25%O | 25%O | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open |
| 11-Apr-01 | NA | 25%O | 25%O | 25%O | 25%O | NA | Open | NA | 25%O | 25%O | 25%O | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open |
| 13-Apr-01 | NA | 25%O | 25%O | 25%O | 25%O | NA | Open | NA | 25%O | 25%O | 25%O | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open |
| 25-Apr-01 | NA | Open | C | C | C | NA | Closed | NA | C | C | C | NA | Closed | NA | Closed | NA | Open | NA | Closed | NA | Closed | NA | Closed | NA | Open | NA | Closed |
| 2-May-01 | NA | Open | C | C | C | NA | Closed | NA | C | C | C | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Open | NA | Closed |
| 9-May-01 | NA | Open | C | C | C | NA | Closed | NA | C | C | C | NA | Closed | NA | Closed | NA | 25% O | NA | Closed | NA | Closed | NA | Closed | NA | Open | NA | Closed |
| 17-May-01 | NA | Closed | C | C | C | NA | Closed | NA | C | C | C | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed |
| 22-May-01 | NA | Open | C | C | C | NA | Closed | NA | C | C | C | NA | Closed | NA | Closed | NA | Open | NA | Closed | NA | Closed | NA | Closed | NA | Open | NA | Closed |
| 24-May-01 | NA | Open | C | C | C | NA | Closed | NA | C | C | C | NA | Closed | NA | Closed | NA | Open | NA | Closed | NA | Closed | NA | Closed | NA | Open | NA | Closed |
| 31-May-01 | NA | Open | C | C | C | NA | Closed | NA | C | C | C | NA | Closed | NA | Closed | NA | Open | NA | Closed | NA | Open | NA | Closed | NA | Open | NA | Closed |
| 6-Jun-01 | NA | Open | C | C | C | NA | Closed | NA | C | C | C | NA | Closed | NA | Closed | NA | Open | NA | Closed | NA | Open | NA | Closed | NA | Open | NA | Closed |
| 12-Jun-01 | NA | Open | C | C | C | NA | Closed | NA | C | C | C | NA | Closed | NA | Closed | NA | Open | NA | Closed | NA | Open | NA | Closed | NA | Open | NA | Closed |
| 19-Jun-01 | NA | Open | C | C | C | NA | Closed | NA | C | C | C | NA | Closed | NA | Closed | NA | Open | NA | Closed | NA | Open | NA | Closed | NA | Open | NA | Closed |
| 20-Jun-01 | NA | Open | C | C | C | NA | Closed | NA | C | C | C | NA | Closed | NA | Closed | NA | Open | NA | Closed | NA | Open | NA | Closed | NA | Open | NA | Closed |
| 27-Jun-01 | NA | Open | C | C | C | NA | Closed | NA | C | C | C | NA | Closed | NA | Closed | NA | Open | NA | Closed | NA | Open | NA | Closed | NA | Open | NA | Closed |
| 3-Jul-01 | NA | Open | C | C | C | NA | Closed | NA | Closed | Closed | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Open | NA | Closed | NA | Open | NA | Closed |
| 10-Jul-01 | NA | Closed | C | C | C | NA | Closed | NA | Closed | Closed | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed |
| 17-Jul-01 | 127 | Open | C | C | C | 5 | Closed | 6.2 | Closed | Closed | Closed | 0 | Closed | 0 | Closed | 8.9 | Closed | 223 | Open | 210 | Open | 13 | Closed | 154.9 | Open | 0 | Closed |
| 24-Jul-01 | NA | Open | C | C | C | NA | Closed | NA | Closed | Closed | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Open | NA | Open | NA | Closed | NA | Open | NA | Closed |
| 1-Aug-01 | NA | Open | C | C | C | NA | Closed | NA | Closed | Closed | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Open | NA | Open | NA | Closed | NA | Open | NA | Closed |
| 9-Aug-01 | NA | Open | C | C | C | NA | Closed | NA | Closed | Closed | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Open | NA | Open | NA | Closed | NA | Open | NA | Closed |
| 15-Aug-01 | NA | Open | C | C | C | NA | Closed | NA | Closed | Closed | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Open | NA | Closed |
| 23-Aug-01 | 7.4 | Open | C | C | C | 0 | Closed | 0 | Closed | Closed | Closed | 0 | Closed | 0 | Closed | 0 | Closed | 0 | Closed | 0 | Closed | 0 | Closed | 7.6 | Open | 0 | Closed |
| 4-Sep-01 | NA | Open | C | C | C | NA | Closed | NA | Closed | Closed | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Open | NA | Closed |
| 14-Sep-01 | NA | Open | C | C | C | NA | Closed | NA | Closed | Closed | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed |
| 19-Sep-01 | NA | Open | C | C | C | NA | Closed | NA | Closed | Closed | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Open | NA | Closed |
| 24-Sep-01 | NA | Open | C | C | C | NA | Closed | NA | Closed | Closed | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Open | NA | Closed |
| 1-Oct-01 | NA | Open | C | C | C | NA | Closed | NA | Closed | Closed | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Open | NA | Closed |
| 8-Oct-01 | NA | Open | C | C | C | NA | Closed | NA | Closed | Closed | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Open | NA | Closed |
| 15-Oct-01 | NA | Open | C | C | C | NA | Closed | NA | Closed | Closed | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Open | NA | Closed |
| 18-Oct-01 | 16.4 | Open | C | C | C | 0 | Closed | 0 | Closed | Closed | Closed | 0 | Closed | 9.2 | Closed | 15.1 | Closed | 51.7 | Closed | 0 | Closed | 0 | Closed | 181.2 | Open | 4.8 | Closed |
| 22-Oct-01 | NA | Open | C | C | C | NA | Closed | NA | Closed | Closed | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Open | NA | Closed |
| 19-Nov-01 | NA | Open | C | C | C | NA | Closed | NA | Closed | Closed | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Open | NA | Closed |
| 21-Nov-01 | 28.7 | Open | Open | Open | Open | 0 | Open | 10 | Open | Open | Open | 7.7 | Open | 0 | Open | 0 | Open | 43.6 | Open | 0 | Open | 0 | Open | 137.4 | Open | 6.2 | Open |
| 28-Nov-01 | NA | Open | Open | Open | Open | NA | Open | NA | Open | Open | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open |
| 5-Dec-01 | NA | Open | Open | Open | Open | NA | Open | NA | Open | Open | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open |
| 14-Dec-01 | NA | Open | Open | Open | Open | NA | Open | NA | Open | Open | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open |
| 18-Dec-01 | 15 | Open | Open | Open | Open | 0 | Open | 0 | Open | Open | Open | 0 | Open | 0 | Open | 0 | Open | 32 | Open | 0 | Open | 0 | Open | 98 | Open | 3 | Open |
| 26-Dec-01 | NA | Open | Open | Open | Open | NA | Open | NA | Open | Open | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open |
| 3-Jan-02 | NA | Closed | Closed | Closed | Closed | NA | Closed | NA | Closed | Closed | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed |
| 8-Jan-02 | 27.9 | Open | Open | Open | Open | 0 | Open | 0 | Open | Open | Open | 0 | Open | 0 | Open | 0 | Open | 55.2 | Open | 0 | Open | 0 | Open | 246.9 | Open | 12.4 | Open |
| 23-Jan-02 | NA | Closed | Closed | Closed | Closed | NA | Closed | NA | Closed | Closed | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed |
| 29-Jan-02 | NA | Open | Open | Open | Open | NA | Open | NA | Open | Open | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open |
| 7-Feb-02 | NA | Closed | Closed | Closed | Closed | NA | Closed | NA | Closed | Closed | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed |
| 12-Feb-02 | 90.6 | Open | Open | Open | Open | 0 | Closed | 87.6 | Open | Open | Open | 0 | Closed | 0 | Closed | 0 | Closed | 112.3 | Open | 0 | Closed | 0 | Closed | 361.7 | Open | 81.7 | Open |
| 26-Feb-02 | NA | Open | Open | Open | Open | NA | Closed | NA | Open | Open | Open | NA | Open | NA | Closed | NA | Closed | NA | Open | NA | Closed | NA | Closed | NA | Open | NA | Open |
| 8-Mar-02 | NA | Closed | Closed | Closed | Closed | NA | Closed | NA | Closed | Closed | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed |

**TABLE 2**
**INDIVIDUAL WELL FIELD CONCENTRATION DATA**
**ARCO FACILITY NO. 6176**
**1001 EAST AMAR ROAD**
**WEST COVINA, CALIFORNIA**

| Date Monitored | BC-1 (note1) VOC Conc. (ppmv) | Status Departure (O/C) BC-1 | VW-4 | VW-5 | VW-6 | GW-1 VOC Conc. (ppmv) | Status Departure (O/C) | BC-5 (note 2) VOC Conc. (ppmv) | Status Departure (O/C) BC-5 | VW-7 | VW-8 | BC-3 VOC Conc. (ppmv) | Status Departure (O/C) | BC-6 VOC Conc. (ppmv) | Status Departure (O/C) | BC-7 VOC Conc. (ppmv) | Status Departure (O/C) | VW-3 VOC Conc. (ppmv) | Status Departure (O/C) | BC-4 VOC Conc. (ppmv) | Status Departure (O/C) | VW-2 VOC Conc. (ppmv) | Status Departure (O/C) | VW-1 VOC Conc. (ppmv) | Status Departure (O/C) | GW-2 VOC Conc. (ppmv) | Status Departure (O/C) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12-Mar-02 | NA | Open | Open | Open | Open | NA | Open | NA | Open | Open | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open |
| 21-Mar-02 | 11 | Closed | Closed | Closed | Closed | 0 | Open | 9.7 | Closed | Closed | Closed | 0 | Open | 0 | Open | 0 | Open | 68.3 | Open | 0 | Open | 0 | Open | 147.2 | Open | 6.6 | Open |
| 27-Mar-02 | NA | Open | Open | Open | Open | NA | Open | NA | Open | Open | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open |
| 4-Apr-02 | NA | Closed | Closed | Closed | Closed | NA | Closed | NA | Closed | Closed | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed |
| 9-Apr-02 | NA | Open | Open | Open | Open | NA | Open | NA | Open | Open | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open |
| 16-Apr-02 | 1.8 | Open | Open | Open | Open | 0 | Open | 0 | Open | Open | Open | 0 | Open | 0 | Open | 0 | Open | 117.9 | Open | 23.3 | Open | 0 | Open | 206.6 | Open | 0 | Open |
| 24-Apr-02 | NA | Open | Open | Open | Open | NA | Open | NA | Open | Open | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open |
| 1-May-02 | NA | Closed | Closed | Closed | Closed | NA | Closed | NA | Closed | Closed | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed |
| 10-Jul-02 | NA | Open | Open | Open | Open | NA | Open | NA | Open | Open | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open |
| 16-Jul-02 | 29.8 | Open | Open | Open | Open | 0 | Open | 31.1 | Open | Open | Open | 0 | Open | 0 | Open | 0 | Open | 224.5 | Open | 67.2 | Open | 0 | Open | 243.7 | Open | 65 | Open |
| 23-Jul-02 | NA | Closed | Closed | Closed | Closed | NA | Closed | NA | Closed | Closed | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed |
| 1-Aug-02 | NA | Closed | Closed | Closed | Closed | NA | Closed | NA | Closed | Closed | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed |
| 7-Aug-02 | 0.9 | Open | Open | Open | Open | 0.7 | Open | 0.8 | Open | Open | Open | 7 | Open | 2.6 | Open | 4 | Open | 53.3 | Open | 62.1 | Open | 14.5 | Open | 336 | Open | 1.2 | Open |
| 14-Aug-02 | 52.2 | Open | Open | Open | Open | 0.1 | Open | 41.3 | Open | Open | Open | 0.1 | Open | 0.1 | Open | 1.1 | Open | 124 | Open | 22.8 | Open | 34.5 | Open | 534 | Open | 155 | Open |
| 21-Aug-02 | NA | Closed | Closed | Closed | Closed | NA | Closed | NA | Closed | Closed | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed |
| 28-Aug-02 | NA | Closed | Closed | Closed | Closed | NA | Closed | NA | Closed | Closed | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed |
| 4-Sep-02 | NA | Closed | Closed | Closed | Closed | NA | Closed | NA | Closed | Closed | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed |
| 11-Sep-02 | NA | Closed | Closed | Closed | Closed | NA | Closed | NA | Closed | Closed | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed |
| 25-Sep-02 | 489 | Open | Open | Open | Open | 2.2 | Open | 392 | Open | Open | Open | 0.5 | Open | 0.5 | Open | 0.5 | Open | 635 | Open | 1 | Open | 2.2 | Open | 140 | Open | 1095 | Open |
| 3-Oct-02 | 1.5 | Open | Open | Open | Open | 2.1 | Open | 2.4 | Open | Open | Open | 4.5 | Open | 9 | Open | 12 | Open | 171 | Open | 43.7 | Open | 20.9 | Open | 534 | Open | 35.1 | Open |
| 9-Oct-02 | 261 | Open | Open | Open | Open | 4.4 | Open | 175 | Open | Open | Open | 0.4 | Open | 1.5 | Open | 8.3 | Open | 326 | Open | 0.8 | Open | 3.2 | Open | 53.5 | Open | 617 | Open |
| 16-Oct-02 | 3.5 | Open | Open | Open | Open | 0.9 | Open | 0.9 | Open | Open | Open | 3.5 | Open | 4.5 | Open | 9.5 | Open | 165 | Open | 115 | Open | 31.1 | Open | 401 | Open | 105 | Open |
| 23-Oct-02 | 2.9 | Open | Open | Open | Open | 0.3 | Open | 0.7 | Open | Open | Open | 2.9 | Open | 3.3 | Open | 6.1 | Open | 140 | Open | 83.1 | Open | 19.2 | Open | 153 | Open | 66 | Open |
| 30-Oct-02 | 172 | Open | Open | Open | Open | 5 | Open | 135 | Open | Open | Open | 2 | Open | 3.4 | Open | 5.9 | Open | 225 | Open | 2.4 | Open | 4.7 | Open | 4.1 | Open | 43.1 | Open |
| 6-Nov-02 | 196 | Open | Open | Open | Open | 7 | Open | 128 | Open | Open | Open | 3.1 | Open | 3.1 | Open | 4.6 | Open | 312 | Open | 2.3 | Open | 5.9 | Open | 8.6 | Open | 66.6 | Open |
| 13-Nov-02 | NA | Open | Open | Open | Open | NA | Open | NA | Open | Open | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open |
| 14-Nov-02 | NA | Open | Open | Open | Open | NA | Open | NA | Open | Open | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open |
| 21-Nov-02 | 168 | Open | Open | Open | Open | 9.5 | 20% O | 125 | Open | Open | Open | 8.4 | 20% O | 4.1 | 20% O | 2.4 | 20% O | 197 | Open | 12.9 | 20% O | 6.5 | 20% O | 16.2 | 50% O | 322 | Open |
| 27-Nov-02 | 141 | Open | Open | Open | Open | 9.6 | 10% O | 127 | Open | Open | Open | 4.6 | 10% O | 5 | 10% O | 8.3 | 10% O | 78.6 | Open | 6.9 | 10% O | 13.3 | 10% O | 40.3 | 30% O | 501 | Open |
| 4-Dec-02 | 61.9 | Open | Open | Open | Open | 0.1 | Closed | 49.2 | Open | Open | Open | 0.1 | Closed | 2 | Closed | 7.3 | 10% O | 70.2 | Open | 9 | 10% O | 0.1 | Closed | 313 | Open | 951 | Open |
| 11-Dec-02 | 136 | 60% O | 60% O | 60% O | 60% O | 6.1 | 10% O | 100 | Open | Open | Open | 2.2 | 10% O | 2.9 | 10% O | 3.4 | 10% O | 103 | 60% O | 111.9 | 60% O | 22.7 | 10% O | 1155 | Open | 1128 | Open |
| 18-Dec-02 | 166 | Open | Open | Open | Open | 0.4 | Closed | 95.7 | Open | Open | Open | 0.1 | Closed | 0.4 | 10% O | 2 | 10% O | 142 | Open | 0.2 | Open | 1.1 | 10% O | 71.4 | Open | 754 | Open |
| 22-Dec-02 | 173.2 | Open | Open | Open | Open | 1.3 | 5% O | 103.6 | Open | Open | Open | 1.1 | 5% O | 0.9 | 10% O | 1.8 | 10% O | 163.9 | Open | 1.1 | Open | 5.6 | 10% O | 6.6 | Open | 787 | Open |
| 27-Dec-02 | NA | Open | Open | Open | Open | NA | Closed | NA | 50% O | 50% O | 50% O | NA | Closed | NA | 25% O | NA | 25% O | NA | 25% O | NA | 25% O | NA | 25% O | NA | Open | NA | Open |
| 2-Jan-03 | 1.9 | Open | Open | Open | Open | 1.0 | 20% O | 116 | Open | Open | Open | 1.1 | 20% O | 0.7 | 20% O | 2.3 | 20% O | 179.6 | 20% O | 1.0 | 20% O | 4.3 | 20% O | 7.9 | Open | 803.1 | Open |
| 8-Jan-03 | 102.2 | Open | Open | Open | Open | 1.3 | 20% O | 85.7 | Open | Open | Open | 0.2 | 10% O | 2.9 | 10% O | 1.5 | 10% O | 87.0 | Open | 6.3 | 10% O | 2.3 | 10% O | 43.1 | Open | 655.0 | Open |
| 15-Jan-03 | 127.0 | Open | Open | Open | Open | 2.0 | Open | 94.0 | Open | Open | Open | 0.1 | Open | 0.1 | Open | 0.3 | Open | 93.3 | Open | 0.1 | Open | 0.1 | Open | 5.8 | Open | 303.0 | Open |
| 20-Jan-03 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 22-Jan-03 | NA | Open | Open | Open | Open | NA | Open | NA | Open | Open | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open |
| 29-Jan-03 | 266.0 | Open | Open | Open | Open | 19.8 | 10% O | 219.0 | Open | Open | Open | 7.2 | 10% O | 8.9 | 10% O | 10.5 | 10% O | 269.0 | Open | 6.2 | 10% O | 21.7 | 10% O | 220.0 | Open | 1225.0 | Open |
| 5-Feb-03 | 894.0 | Open | Open | Open | Open | 0.1 | Open | 698 | Open | Open | Open | 0.4 | Open | 0.1 | Open | 115.5 | Open | 135.0 | Open | NA | Open | 59.0 | Open | 711.0 | Open | 994.0 | Open |
| 12-Feb-03 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 19-Feb-03 | NA | Open | Open | Open | Open | NA | Open | NA | Open | Open | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open |
| 26-Feb-03 | NA | Open | Open | Open | Open | NA | Open | NA | Open | Open | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open |
| 6-Mar-03 | 141 | Open | Open | Open | Open | 2.4 | Open | 60.3 | Open | Open | Open | 1.3 | Open | 2.3 | Open | 0.9 | Open | 31.3 | Open | 0.2 | Open | 6.6 | Open | 51.3 | Open | 710 | Open |
| 12-Mar-03 | 0.1 | 10% O | 10% O | 10% O | 10% O | 13.6 | 10% O | NA | Open | Open | Open | 23.6 | 10% O | 10.1 | 10% O | 27.5 | 10% O | 353 | Open | 13.8 | Open | 11.7 | 10% O | 703 | Open | 2.6 | 10% O |
| 20-Mar-03 | NA | Open | Open | Open | Open | NA | Open | NA | Open | Open | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open | NA | Open |
| 26-Mar-03 | 0.1 | 5% O | 5% O | 5% O | 5% O | 0.1 | 5% O | NA | Open | Open | Open | 0.1 | 5% O | 0.1 | 5% O | 0.1 | 5% O | 122 | Open | 45.8 | Open | 12.3 | Open | 626 | Open | 0.1 | 5% O |
| 2-Apr-03 | 0.1 | 5% O | 5% O | 5% O | 5% O | 0.1 | 5% O | 0.1 | 5% O | 5% O | 5% O | 0.1 | 5% O | 0.1 | 5% O | 0.1 | 5% O | 157 | Open | 69.9 | Open | 6.5 | 5% O | 710 | Open | 0.1 | 5% O |
| 9-Apr-03 | 6.0 | 5% O | 5% O | 5% O | 5% O | 52.0 | 5% O | 35.2 | 5% O | 5% O | 5% O | 46.3 | 5% O | 60.0 | 5% O | 18.3 | 5% O | 5.5 | Open | 4.0 | Open | 5.5 | 5% O | 5.3 | Open | 8.5 | 5% O |
| 17-Apr-03 | 2.0 | 5% O | 5% O | 5% O | 5% O | 30.1 | 5% O | 16.3 | 5% O | 5% O | 5% O | 14.8 | 5% O | 24.3 | 5% O | 2.3 | 5% O | 29.4 | Open | 64.3 | Open | 19.4 | 5% O | 68.4 | Open | 4.1 | 5% O |
| 23-Apr-03 | NA | 10% O | 10% O | 10% O | 10% O | NA | 50% O | NA | 10% O | 10% O | 10% O | NA | 10% O | NA | 10% O | NA | 10% O | NA | Open | NA | Open | NA | 10% O | NA | Open | NA | 50% O |
| 30-Apr-03 | 0.1 | 5% O | 5% O | 5% O | 5% O | 0.1 | 5% O | 0.1 | 5% O | 5% O | 5% O | 7.1 | 5% O | 6.0 | 5% O | 8.2 | 5% O | 102 | Open | 22.1 | 50% O | 38.9 | 50% O | 425 | Open | 273 | Open |
| 7-May-03 | 0.1 | 5% O | 5% O | 5% O | 5% O | 0.1 | 5% O | 0.1 | 5% O | 5% O | 5% O | 5.1 | 5% O | 4.3 | 5% O | 4.0 | 5% O | 68.9 | Open | 27.3 | 50% O | 46.4 | 50% O | 503 | Open | 291 | Open |
| 15-May-03 | 0.1 | 5% O | 5% O | 5% O | 5% O | 0.1 | 5% O | 0.1 | 5% O | 5% O | 5% O | 0.2 | 5% O | 0.1 | 5% O | 2.1 | 5% O | 47.3 | Open | 12.0 | 50% O | 8.1 | 50% O | 107 | Open | 20.1 | Open |
| 20-May-03 | 0.1 | 5% O | 5% O | 5% O | 5% O | 0.2 | 5% O | 0.1 | 5% O | 5% O | 5% O | 2.7 | 5% O | 0.1 | 5% O | 3.2 | 5% O | 52.2 | Open | 18.4 | 50% O | 9.2 | 50% O | 98.4 | Open | 3.2 | Open |
| 27-May-03 | NA | Closed | Closed | Closed | Closed | NA | Closed | NA | Closed | Closed | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed |
| 4-Jun-03 | NA | Closed | Closed | Closed | Closed | NA | Closed | NA | Closed | Closed | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed |
| 11-Jun-03 | NA | Closed | Closed | Closed | Closed | NA | Closed | NA | Closed | Closed | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed |

**TABLE 2**
**INDIVIDUAL WELL FIELD CONCENTRATION DATA**
**ARCO FACILITY NO. 6176**
**1001 EAST AMAR ROAD**
**WEST COVINA, CALIFORNIA**

| Date Monitored | BC-1 (note1) | | | | | GW-1 | | BC-5 (note 2) | | | | BC-3 | | BC-6 | | BC-7 | | VW-3 | | BC-4 | | VW-2 | | VW-1 | | GW-2 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VOC Conc. (ppmv) | Status Departure (O/C) BC-1 | VW-4 | VW-5 | VW-6 | VOC Conc. (ppmv) | Status Departure (O/C) | VOC Conc. (ppmv) | Status Departure (O/C) BC-5 | VW-7 | VW-8 | VOC Conc. (ppmv) | Status Departure (O/C) | VOC Conc. (ppmv) | Status Departure (O/C) | VOC Conc. (ppmv) | Status Departure (O/C) | VOC Conc. (ppmv) | Status Departure (O/C) | VOC Conc. (ppmv) | Status Departure (O/C) | VOC Conc. (ppmv) | Status Departure (O/C) | VOC Conc. (ppmv) | Status Departure (O/C) | VOC Conc. (ppmv) | Status Departure (O/C) |
| 18-Jun-03 | >4,000 | 50% O | 50% O | 50% O | 50% O | >4,000 | 50% O | >4,000 | 50% O | 50% O | 50% O | >4,000 | 50% O | >4,000 | 50% O | 121 | 50% O | >4,000 | Open | >4,000 | 50% O | >4,000 | 50% O | >4,000 | Open | >4,000 | Open |
| 25-Jun-03 | >4,000 | 50% O | 50% O | 50% O | 50% O | >4,000 | 50% O | >4,000 | 50% O | 50% O | 50% O | 2891 | 50% O | >4,000 | 50% O | 212 | 50% O | >4,000 | Open | >4,000 | 50% O | >4,000 | 50% O | >4,000 | Open | >4,000 | Open |
| 2-Jul-03 | >4,000 | 50% O | 50% O | 50% O | 50% O | >4,000 | 50% O | >4,000 | 50% O | 50% O | 50% O | 2907 | 50% O | >4,000 | 50% O | 271 | 50% O | >4,000 | Open | >4,000 | 50% O | >4,000 | 50% O | >4,000 | Open | >4,000 | Open |
| 10-Jul-03 | 0 | 50% O | 50% O | 50% O | 50% O | 0 | 50% O | 0 | 50% O | 50% O | 50% O | 0.7 | 50% O | 0.6 | 50% O | 1.4 | 50% O | 6.4 | Open | 1.9 | 50% O | 1.3 | 50% O | 15.1 | Open | 1.9 | Open |
| 16-Jul-03 | 0 | 50% O | 50% O | 50% O | 50% O | 0 | 50% O | 0 | 50% O | 50% O | 50% O | 0 | 50% O | 0 | 50% O | 0 | 50% O | 3 | Open | 0 | 50% O | 0 | 50% O | 6 | Open | 0 | 50% O |
| 25-Jul-03 | 0 | 50% O | 50% O | 50% O | 50% O | 0 | 50% O | 0 | 50% O | 50% O | 50% O | 0 | 50% O | 0 | 50% O | 0 | 50% O | 10 | Open | 0 | 50% O | 0 | 50% O | 4 | Open | 0 | 50% O |
| 31-Jul-03 | NA | 50% O | 50% O | 50% O | 50% O | NA | 50% O | NA | 50% O | 50% O | 50% O | NA | 50% O | NA | 50% O | NA | 50% O | 9 | Open | NA | 50% O | NA | 50% O | 8 | Open | NA | 50% O |
| 7-Aug-03 | 0 | 50% O | 50% O | 50% O | 50% O | 0 | 50% O | 0 | 50% O | 50% O | 50% O | 0 | 50% O | 0 | 50% O | 0 | 50% O | 5 | Open | 0 | 50% O | 0 | 50% O | 5 | Open | 0 | 50% O |
| 12-Aug-03 | 0 | Open | Open | Open | Open | 0 | Open | 0 | Open | Open | Open | 0 | Open | 0 | Open | 0 | Open | 0 | Open | 0 | Open | 0 | Open | 0 | Open | 0 | Open |
| 19-Aug-03 | 0 | Open | Open | Open | Open | 0 | Open | 0 | Open | Open | Open | 0 | Open | 0 | Open | 0 | Open | 0 | Open | 0 | Open | 0 | Open | 0 | Open | 0 | Open |
| 26-Aug-03 | 0 | Open | Open | Open | Open | 0 | Open | 1 | Open | Open | Open | 0 | Open | 0 | Open | 0 | Open | 0 | Open | 0 | Open | 0 | Open | 0 | Open | 0 | Open |
| 4-Sep-03 | 0 | Open | Open | Open | Open | 0 | Open | 0 | Open | Open | Open | 0 | Open | 0 | Open | 0 | Open | 0 | Open | 0 | Open | 0 | Open | 0 | Open | 0 | Open |
| 9-Sep-03 | 0 | Open | Open | Open | Open | 0 | Open | 0 | Open | Open | Open | 0 | Open | 0 | Open | 0 | Open | 4 | Open | 0 | Open | 0 | Open | 2 | Open | 0 | Open |
| 16-Sep-03 | 0 | Open | Open | Open | Open | 0 | Open | 0 | Open | Open | Open | 0 | Open | 0 | Open | 0 | Open | 2 | Open | 0 | Open | 0 | Open | 2 | Open | 0 | Open |
| 23-Sep-03 | 1.3 | Open | Open | Open | Open | 6.1 | Open | 0.2 | Open | Open | Open | 2.1 | Open | 1.3 | Open | 1.6 | Open | 2.3 | Open | 0.8 | Open | 0.3 | Open | 0.9 | Open | 1.2 | Open |
| 30-Sep-03 | 0 | Open | Open | Open | Open | 0 | Open | 0 | Open | Open | Open | 0 | Open | 0 | Open | 0 | Open | 0 | Open | 0 | Open | 0 | Open | 0 | Open | 0 | Open |
| 7-Oct-03 | 0 | Open | Open | Open | Open | 0 | Open | 0 | Open | Open | Open | 0 | Open | 0 | Open | 0 | Open | 0 | Open | 0 | Open | 0 | Open | 0 | Open | 0 | Open |
| 14-Oct-03 | 1.3 | Open | Open | Open | Open | 1.9 | Open | 1.5 | Open | Open | Open | 1.9 | Open | 3.4 | Open | 6 | Open | 25.6 | Open | 10.9 | Open | 2 | Open | 50.3 | Open | 34.1 | Open |
| 21-Oct-03 | NA | Closed | Closed | Closed | Closed | NA | Closed | NA | Closed | Closed | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed |
| 28-Oct-03 | NA | Closed | Closed | Closed | Closed | NA | Closed | NA | Closed | Closed | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed |
| 30-Oct-03 | NA | Closed | Closed | Closed | Closed | NA | Closed | NA | Closed | Closed | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed |
| 4-Nov-03 | 41 | Open | Open | Open | Open | 0 | Closed | 22 | Open | Open | Open | 0 | Closed | 0 | Closed | 0 | Closed | 302 | Open | 0 | Closed | 0 | Closed | 10 | Open | 118 | Open |
| 11-Nov-03 | 0 | Open | Open | Open | Open | 0 | Closed | 0 | Open | Open | Open | 0 | Closed | 0 | Closed | 0 | Closed | 0 | Open | 0 | Closed | 0 | Closed | 0 | Open | 0 | Open |
| 12-Nov-03 | NA | Open | Open | Open | Open | NA | Closed | NA | Open | Open | Open | NA | Open | NA | Open | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Open | NA | Open |
| 18-Nov-03 | 71 | Open | Open | Open | Open | 0 | Closed | 41 | Open | Open | Open | 0 | Open | 0 | Open | 0 | Closed | 0 | Closed | 0 | Closed | 0 | Closed | 5 | Open | 38 | Open |
| 2-Dec-03 | 692 | Open | Open | Open | Open | 0 | Closed | 402 | Open | Open | Open | 0 | Closed | 0 | Closed | 0 | Closed | 11 | Open | 0 | 50% Open | 0 | 50% Open | 38 | Open | 1325 | Open |
| 9-Dec-03 | 40 | Open | Open | Open | Open | 0 | Closed | 15 | Open | Open | Open | 0 | Closed | 0 | Closed | 0 | Closed | 0 | Open | 0 | 50% Open | 0 | 50% Open | 0 | Open | 7 | Open |
| 16-Dec-03 | 97 | Open | Open | Open | Open | 0 | Closed | 33 | Open | Open | Open | 0 | Open | 0 | Open | 0 | Closed | 0 | Closed | 0 | Closed | 0 | Closed | 0 | Closed | 192 | Open |
| 22-Dec-03 | 55 | Open | Open | Open | Open | 0 | Closed | 11 | Open | Open | Open | 0 | Open | 0 | Open | 0 | Closed | 0 | Closed | 0 | Closed | 0 | Closed | 0 | Closed | 62 | Open |
| 27-Jan-04 | NA | Closed | Closed | Closed | Closed | NA | Closed | NA | Closed | Closed | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed |
| 3-Feb-04 | NA | Closed | Closed | Closed | Closed | NA | Closed | NA | Closed | Closed | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed |
| 5-Feb-04 | 60 | Open | Open | Open | Open | 4 | Open | 38 | Open | Open | Open | 6 | Open | 1 | Closed | 1 | Closed | 0 | Closed | 2 | Closed | 0 | Closed | 10 | Open | 15 | Open |
| 10-Feb-04 | 0 | Open | Open | Open | Open | 0 | Open | 0 | Open | Open | Open | 0 | Open | 0 | Open | 0 | Open | 0 | Open | 0 | Open | 0 | Open | 0 | Open | 1 | Open |
| 3-Mar-04 | NA | Closed | Closed | Closed | Closed | NA | Closed | NA | Closed | Closed | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed |
| 13-May-04 | NA | Closed | Closed | Closed | Closed | NA | Closed | NA | Closed | Closed | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed |
| 18-May-04 | 55 | Open | Open | Open | Open | 68 | Open | 40 | Open | Open | Open | 6 | Open | 1 | Closed | 1 | Closed | 0 | Closed | 16 | Open | 0 | Closed | 18 | Open | 61 | Open |
| 25-May-04 | NA | Closed | Closed | Closed | Closed | NA | Closed | NA | Closed | Closed | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed | NA | Closed |

Notes:
VOC = Volatile organic compound
Conc. = Concentration
ppmv = Parts per million by volume
O/C = Open/closed
NA = Not available/applicable

As of March 30, 1999, wells VW-4, VW-5, VW-6 and BC-1 are connected to the influent manifold labeled BC-1.
As of March 30, 1999, wells VW-7, VW-8, and BC-5 are connected to the influent manifold labeled BC-5.

**TABLE 3**
**SPARGE SYSTEM PERFORMANCE DATA**
**ARCO FACILITY NO. 6176**
**1001 EAST AMAR ROAD**
**WEST COVINA, CALIFORNIA**

| Date Monitored | System Status | Sparge Point BC-1* (cfm) | BC-3 (cfm) | BC-4 (cfm) | BC-5** (cfm) | BC-6 (cfm) | BC-7 (cfm) | Comments |
|---|---|---|---|---|---|---|---|---|
| 29-Mar-96 | On | NA | NA | NA | NA | NA | NA | Sparging initiated |
| 30-Mar-99 | On | Closed | Closed | Open | Closed | Open | Open | |
| 13-Apr-99 | On | Closed | Closed | 0.8 | Closed | 1.6 | 1.6 | |
| 3-May-99 | On | Closed | Closed | Open | Closed | Open | Open | |
| 27-May-99 | On | Closed | Closed | Open | Closed | Open | Open | Restart Sparge and SVE systems |
| 10-Sep-99 | On | Closed | Closed | Open | Closed | Open | Open | Restart Sparge and SVE systems |
| 22-Oct-99 | On | 1.0 | Closed | Closed | 1.0 | Closed | Closed | |
| 22-Oct-99 | On | 1.0 | Closed | Closed | 1.0 | Closed | Closed | |
| 29-Oct-99 | On | 1.0 | Closed | Closed | 1.0 | Closed | Closed | 3 hrs on/1 hr off |
| 5-Nov-99 | On | 3.5 | Closed | Closed | 3.5 | Closed | Closed | Repaired sparge. 3 hrs on/1 hr off |
| 11-Nov-99 | Off | NA | NA | NA | NA | NA | NA | |
| 18-Nov-99 | Off | NA | NA | NA | NA | NA | NA | |
| 23-Nov-99 | Off | NA | NA | NA | NA | NA | NA | |
| 3-Jan-00 | Off | NA | NA | NA | NA | NA | NA | Sparge off pending drop in SVE influent concentrations |
| 04-Jan-00 | Off | NA | NA | NA | NA | NA | NA | |
| 06-Jan-00 | On | 2.0 | Closed | Closed | 1.0 | Closed | Closed | Restart spare - 3hrs on/1 hr off |
| 17-Jan-00 | On | 1.5 | Closed | Closed | 1.5 | Closed | Closed | |
| 24-Jan-00 | On | 2.0 | Closed | Closed | 1.0 | Closed | Closed | |
| 3-Feb-00 | On | 2.0 | Closed | Closed | 2.0 | Closed | Closed | |
| 15-Feb-00 | On | 2.0 | Closed | Closed | 2.0 | Closed | Closed | |
| 21-Feb-00 | On | 2.0 | Closed | Closed | 2.0 | Closed | Closed | Sparge shut off for gw sampling |
| 2-Mar-00 | On | 2.0 | Closed | Closed | 2.0 | Closed | Closed | Restart sparge and SVE |
| 22-Mar-00 | On | 2.0 | Closed | Closed | 2.0 | Closed | Closed | 3 hours on/1 hour off |
| 29-Mar-00 | On | 2.0 | Closed | Closed | 1.0 | Closed | Closed | |
| 6-Apr-00 | Off | NA | NA | NA | NA | NA | NA | |
| 12-Apr-00 | On | 3.0 | Closed | Closed | 3.0 | Closed | Closed | |
| 20-Apr-00 | Off | NA | NA | NA | NA | NA | NA | |
| 27-Apr-00 | Off | NA | NA | NA | NA | NA | NA | |
| 2-May-00 | Off | NA | NA | NA | NA | NA | NA | |
| 8-May-00 | Off | NA | NA | NA | NA | NA | NA | |
| 11-May-00 | Off | NA | NA | NA | NA | NA | NA | |
| 12-May-00 | Off | NA | NA | NA | NA | NA | NA | |
| 17-May-00 | Off | NA | NA | NA | NA | NA | NA | |
| 24-May-00 | Off | NA | NA | NA | NA | NA | NA | |
| 25-May-00 | Off | NA | NA | NA | NA | NA | NA | |
| 31-May-00 | Off | NA | NA | NA | NA | NA | NA | |
| 3-Jun-00 | Off | NA | NA | NA | NA | NA | NA | |
| 7-Jun-00 | Off | NA | NA | NA | NA | NA | NA | |
| 14-Jun-00 | Off | NA | NA | NA | NA | NA | NA | |
| 5-Jul-00 | Off | NA | NA | NA | NA | NA | NA | |
| 10-Jul-00 | On | 9.0 | Closed | Closed | 9.0 | Closed | Closed | Install new AS compressor |
| 12-Jul-00 | On | 9.0 | Closed | Closed | 9.0 | Closed | 9.0 | Repaired switch on AS timer |
| 19-Jul-00 | Off | NA | NA | NA | NA | NA | NA | AS needs new love joy coupling |
| 28-Jul-00 | Off | NA | NA | NA | NA | NA | NA | |
| 3-Aug-00 | Off | NA | NA | NA | NA | NA | NA | |
| 8-Aug-00 | Off | NA | NA | NA | NA | NA | NA | |
| 16-Aug-00 | Off | NA | NA | NA | NA | NA | NA | |
| 23-Aug-00 | Off | NA | NA | NA | NA | NA | NA | |
| 29-Aug-00 | On | 9.0+ | Closed | 4.0 | 9.0+ | Closed | Closed | Install love joy coupling and flange |
| 6-Sep-00 | On | 10.0 | Closed | Closed | 8.0 | Closed | Closed | |
| 13-Sep-00 | On | 7.8 | Closed | 4.5 | 7.8 | Closed | Closed | BC-4 Flow meter is leaking |
| 19-Sep-00 | On | 8.0+ | Closed | 8.0+ | 8.0+ | Closed | Closed | |
| 26-Sep-00 | On | 8.0+ | Closed | 6.0 | 8.0+ | Closed | Closed | Repair manifold |
| 3-Oct-00 | On | 8.0+ | Closed | 6.0 | 8.0+ | Closed | Closed | |
| 10-Oct-00 | On | 8.0 | Closed | 8.0 | 6.0 | Closed | Closed | |
| 17-Oct-00 | On | 7.5 | Closed | 8.0+ | 6.0 | Closed | Closed | |
| 24-Oct-00 | On | 8+ | Closed | 4.5 | 8.0 | Closed | Closed | |
| 31-Oct-00 | On | 8+ | Closed | 3.5 | 8.0 | Closed | Closed | |

**TABLE 3**
**SPARGE SYSTEM PERFORMANCE DATA**
**ARCO FACILITY NO. 6176**
**1001 EAST AMAR ROAD**
**WEST COVINA, CALIFORNIA**

| Date Monitored | System Status | Sparge Point BC-1* (cfm) | BC-3 (cfm) | BC-4 (cfm) | BC-5** (cfm) | BC-6 (cfm) | BC-7 (cfm) | Comments |
|---|---|---|---|---|---|---|---|---|
| 7-Nov-00 | On | 8+ | Closed | 2.5 | 7.5 | Closed | Closed | |
| 15-Nov-00 | Off | NA | Closed | NA | NA | Closed | Closed | Compressor failure |
| 17-Nov-00 | Off | NA | Closed | NA | NA | Closed | Closed | |
| 18-Nov-00 | Off | NA | Closed | NA | NA | Closed | Closed | Remove failed components |
| 28-Nov-00 | Off | NA | Closed | NA | NA | Closed | Closed | |
| 5-Dec-00 | On | 8+ | Closed | Closed | 8+ | Closed | Closed | Install cooling fan |
| 11-Dec-00 | On | 8+ | Closed | Closed | 8+ | Closed | Closed | |
| 17-Dec-00 | On | 8+ | Closed | Closed | 8+ | Closed | Closed | |
| 27-Dec-00 | On | 8+ | Closed | Closed | 8+ | Closed | Closed | |
| 8-Jan-01 | On | 8+ | Closed | Closed | 8+ | Closed | Closed | pressure 8 psi |
| 10-Jan-01 | Off | NA | NA | NA | NA | NA | NA | SVE system off |
| 29-Jan-01 | On | 8+ | Closed | Closed | 8+ | Closed | Closed | pressure 12 psi |
| 31-Jan-01 | On | 8+ | Closed | Closed | 8+ | Closed | Closed | pressure 7 psi |
| 8-Feb-01 | Off | NA | NA | NA | NA | NA | NA | Off lovejoy coupling failure |
| 21-Feb-01 | Off | NA | Closed | Closed | NA | Closed | Closed | |
| 25-Feb-01 | On | 8+ | Closed | Closed | 8+ | Closed | Closed | Install love joy coupling & filter/10 psi |
| 28-Feb-01 | On | 8+ | Closed | Closed | 8+ | Closed | Closed | pressure 7 psi |
| 6-Mar-01 | On | 8+ | Closed | Closed | 8+ | Closed | Closed | pressure 10 psi |
| 8-Mar-01 | Off | NA | NA | NA | NA | NA | NA | SVE system off |
| 16-Mar-01 | Off | NA | Closed | Closed | NA | Closed | Closed | |
| 27-Mar-01 | Off | NA | Closed | Closed | NA | Closed | Closed | |
| 30-Mar-01 | Off | NA | Closed | Closed | NA | Closed | Closed | |
| 5-Apr-01 | On | Open | Closed | Closed | Open | Closed | Closed | |
| 11-Apr-01 | On | 8+ | Closed | Closed | 8+ | Closed | Closed | |
| 13-Apr-01 | Off | NA | NA | NA | NA | NA | NA | |
| 25-Apr-01 | Off | NA | NA | NA | NA | NA | NA | |
| 2-May-01 | Off | NA | NA | NA | NA | NA | NA | |
| 9-May-01 | Off | NA | NA | NA | NA | NA | NA | |
| 17-May-01 | Off | NA | NA | NA | NA | NA | NA | |
| 22-May-01 | On | 8+ | Closed | Closed | Closed | Closed | Closed | Sparge system repaired/restarted |
| 24-May-01 | On | 9+ | Closed | Closed | Closed | Closed | Closed | |
| 31-May-01 | On | NA | Closed | Closed | Closed | Closed | Closed | |
| 6-Jun-01 | On | 9+ | Closed | Closed | Closed | Closed | Closed | |
| 12-Jun-01 | Off | NA | Closed | Closed | Closed | Closed | Closed | |
| 19-Jun-01 | On | 8+ | Closed | Closed | Closed | Closed | Closed | |
| 20-Jun-01 | On | 8+ | Closed | Closed | Closed | Closed | Closed | |
| 27-Jun-01 | On | 8+ | Closed | Closed | Closed | Closed | Closed | |
| 3-Jul-01 | On | 8+ | Closed | Closed | Closed | Closed | Closed | pressure 12 psi, BC-1 only |
| 10-Jul-01 | Off | NA | Closed | Closed | Closed | Closed | Closed | |
| 17-Jul-01 | On | 8+ | Closed | Closed | Closed | Closed | Closed | pressure 11 psi, BC-1 only |
| 24-Jul-01 | Off | NA | Closed | Closed | Closed | Closed | Closed | |
| 1-Aug-01 | On | 8+ | Closed | Closed | Closed | Closed | Closed | pressure 11 psi, BC-1 only |
| 9-Aug-01 | Off | NA | Closed | Closed | Closed | Closed | Closed | |
| 15-Aug-01 | On | 11.0 | Closed | Closed | Closed | Closed | Closed | pressure 11 psi, BC-1 only |
| 23-Aug-01 | Off | NA | Closed | Closed | Closed | Closed | Closed | |
| 4-Sep-01 | On | 10.0 | Closed | Closed | Closed | Closed | Closed | pressure 10 psi, BC-1 only |
| 14-Sep-01 | Off | NA | Closed | Closed | Closed | Closed | Closed | |
| 19-Sep-01 | On | 8+ | Closed | Closed | Closed | Closed | Closed | pressure 10 psi, BC-1 only |
| 24-Sep-01 | Off | NA | Closed | Closed | Closed | Closed | Closed | |
| 1-Oct-01 | On | 8+ | Closed | Closed | Closed | Closed | Closed | |
| 8-Oct-01 | Off | NA | Closed | Closed | Closed | Closed | Closed | |
| 15-Oct-01 | On | 6.0 | 5.0 | 5.0 | 4.0 | 4.0 | 2.0 | pressure 10 psi |
| 18-Oct-01 | On | 8.0 | 0.0 | 0.0 | 0.0 | 4.8 | 5.3 | pressure 8 psi |
| 22-Oct-01 | Off | NA | NA | NA | NA | NA | NA | |
| 19-Nov-01 | On | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | |
| 21-Nov-01 | On | 8.0 | 4.0 | Closed | 1.0 | 4.5 | 5.0 | pressure 9 psi |
| 28-Nov-01 | Off | NA | Closed | Closed | Closed | Closed | Closed | |
| 5-Dec-01 | On | 6.0 | 6.0 | Closed | 1.0 | 4.0 | 4.0 | |
| 14-Dec-01 | On | NA | Open | Closed | Open | Open | Open | |
| 18-Dec-01 | Off | NA | Closed | Closed | Closed | Closed | Closed | |

**TABLE 3**
**SPARGE SYSTEM PERFORMANCE DATA**
**ARCO FACILITY NO. 6176**
**1001 EAST AMAR ROAD**
**WEST COVINA, CALIFORNIA**

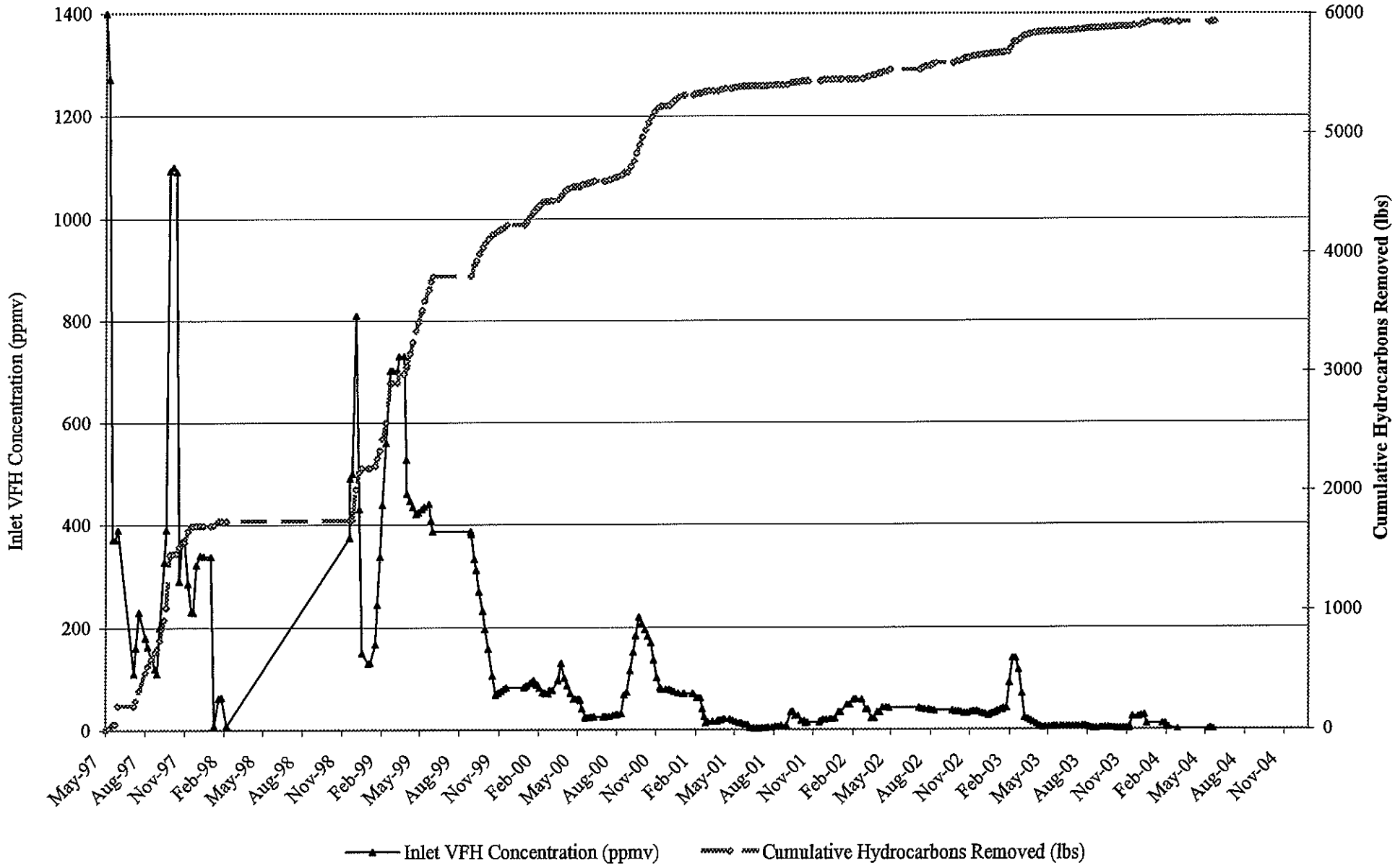
| Date Monitored | System Status | Sparge Point BC-1* (cfm) | BC-3 (cfm) | BC-4 (cfm) | BC-5** (cfm) | BC-6 (cfm) | BC-7 (cfm) | Comments |
|---|---|---|---|---|---|---|---|---|
| 26-Dec-01 | On | 6.0 | 2.0 | Closed | 2.0 | 3.0 | 6.0 | pressure 12 psi |
| 3-Jan-02 | On | NA | NA | Closed | NA | NA | NA | |
| 8-Jan-02 | On | 7.0 | 2.0 | Closed | 2.0 | 4.0 | 7.0 | pressure 10 psi |
| 23-Jan-02 | On | NA | NA | Closed | NA | NA | NA | |
| 29-Jan-02 | Off | NA | NA | Closed | NA | NA | NA | Sparge off pending repairs |
| 7-Feb-02 | Off | NA | NA | Closed | NA | NA | NA | |
| 12-Feb-02 | Off | NA | NA | Closed | NA | NA | NA | |
| 26-Feb-02 | On | 5.0 | 3.5 | Closed | 2.0 | 5.0 | 4.5 | compressor repaired/pressure 10 psi |
| 8-Mar-02 | Off | NA | NA | Closed | NA | NA | NA | |
| 12-Mar-02 | On | 5.0 | 3.0 | Closed | 3.0 | 4.0 | 3.0 | pressure 11 psi |
| 21-Mar-02 | On | NA | NA | NA | NA | NA | NA | |
| 27-Mar-02 | On | 5.0 | 3.0 | Closed | 2.0 | 5.0 | 4.0 | pressure 10 psi |
| 4-Apr-02 | Off | NA | NA | Closed | NA | NA | NA | |
| 9-Apr-02 | On | 5.0 | 3.0 | Closed | 2.0 | 4.0 | 4.0 | pressure 10 psi |
| 16-Apr-02 | Off | 4.5 | 4.0 | Closed | 1.0 | 5.0 | 3.5 | |
| 24-Apr-02 | On | NA | 5.0 | Closed | 1.0 | 4.2 | 5.0 | pressure 11 psi |
| 1-May-02 | Off | NA | NA | Closed | NA | NA | NA | |
| 10-Jul-02 | On | 3.5 | 5.0 | Closed | 1.0 | 3.0 | 2.5 | pressure 12 psi |
| 16-Jul-02 | On | 5.0 | 3.0 | Closed | >1.0 | 9.0 | 5.0 | pressure 10 psi |
| 23-Jul-02 | Off | NA | NA | Closed | NA | NA | NA | |
| 1-Aug-02 | On | 8.0 | 2.2 | 1.1 | 2.2 | 2.1 | 4.6 | pressure 22 psi |
| 7-Aug-02 | On | 7.8 | NA | Closed | NA | 1.9 | NA | pressure 6 psi |
| 14-Aug-02 | On | NA | NA | NA | NA | 4.5 | 5.0 | no reading on BC-1,3,5. pressure 8.2 psi |
| 21-Aug-02 | Off | NA | NA | Closed | NA | NA | NA | system down |
| 28-Aug-02 | Off | NA | NA | Closed | NA | NA | NA | |
| 4-Sep-02 | Off | NA | NA | Closed | NA | NA | NA | |
| 11-Sep-02 | Off | NA | NA | Closed | NA | NA | NA | |
| 25-Sep-02 | Off | NA | NA | Closed | NA | NA | NA | motor needs to be replaced |
| 3-Oct-02 | Off | NA | NA | Closed | NA | NA | NA | motor needs to be replaced |
| 9-Oct-02 | On | 2.1 | 2.0 | Closed | 2.5 | 2.5 | 2.5 | |
| 16-Oct-02 | On | 2.6 | 1.8 | Closed | 1.8 | 4.0 | 3.5 | |
| 23-Oct-02 | Off | 2.0 | 2.0 | Closed | 2.0 | 2.8 | 2.0 | |
| 30-Oct-02 | On | 2.5 | 2.3 | Closed | 2.1 | 2.4 | 2.3 | |
| 6-Nov-02 | On | 3.0 | 2.5 | Closed | 2.3 | 2.5 | 2.5 | |
| 13-Nov-02 | On | NA | NA | NA | NA | NA | NA | pump on - no pressure |
| 3-Oct-02 | Off | NA | NA | Closed | NA | NA | NA | |
| 9-Oct-02 | On | 2.1 | 2.0 | Closed | 2.5 | 2.5 | 2.5 | pressure 5 psi |
| 16-Oct-02 | On | 2.6 | 1.8 | Closed | 1.8 | 4.0 | 3.5 | pressure 7 psi |
| 23-Oct-02 | On | 2.0 | 2.0 | Closed | 2.0 | 2.8 | 2.0 | pressure 6 psi |
| 30-Oct-02 | On | 2.5 | 2.3 | Closed | 2.1 | 2.4 | 2.3 | pressure 5 psi |
| 6-Nov-02 | On | 3.0 | 2.5 | Closed | 2.3 | 2.5 | 2.5 | pressure 5 psi |
| 13-Nov-02 | On | NA | NA | NA | NA | NA | NA | pressure 2 psi |
| 14-Nov-02 | Off | NA | NA | NA | NA | NA | NA | sparge compressor failure |
| 21-Nov-02 | Off | NA | NA | NA | NA | NA | NA | off pending compressor replacement |
| 27-Nov-02 | Off | NA | NA | NA | NA | NA | NA | off pending compressor replacement |
| 4-Dec-02 | Off | NA | NA | NA | NA | NA | NA | off pending compressor replacement |
| 11-Dec-02 | Off | NA | NA | NA | NA | NA | NA | off pending compressor replacement |
| 18-Dec-02 | Off | NA | NA | NA | NA | NA | NA | off pending compressor replacement |
| 22-Dec-02 | Off | NA | NA | NA | NA | NA | NA | off pending compressor replacement |
| 27-Dec-02 | Off | NA | NA | NA | NA | NA | NA | off pending compressor replacement |
| 2-Jan-03 | Off | NA | NA | NA | NA | NA | NA | off pending compressor replacement |
| 8-Jan-03 | Off | NA | NA | NA | NA | NA | NA | off pending compressor replacement |
| 15-Jan-03 | Off | NA | NA | NA | NA | NA | NA | off pending compressor replacement |
| 20-Jan-03 | Off | NA | NA | NA | NA | NA | NA | off pending compressor replacement |
| 22-Jan-03 | Off | NA | NA | NA | NA | NA | NA | off pending compressor replacement |
| 29-Jan-03 | Off | NA | NA | NA | NA | NA | NA | off pending compressor replacement |
| 5-Feb-03 | On | 3.8 | 4.8 | Closed | NA | 4.0 | 3.4 | pressure 11 psi |
| 12-Feb-03 | On | 3.2 | 5.0 | 1.5 | 0.9 | 4.6 | 3.0 | pressure 10 psi |
| 19-Feb-03 | On | 5.0 | 4.5 | 5.0 | <1.0 | 5.0 | 5.0 | pressure 9 psi |
| 26-Feb-03 | On | 5.0 | 4.0 | 4.5 | <1.0 | 4.8 | 5.6 | pressure 11 psi |

**TABLE 3**
**SPARGE SYSTEM PERFORMANCE DATA**
**ARCO FACILITY NO. 6176**
**1001 EAST AMAR ROAD**
**WEST COVINA, CALIFORNIA**

| Date Monitored | System Status | Sparge Point BC-1* (cfm) | BC-3 (cfm) | BC-4 (cfm) | BC-5** (cfm) | BC-6 (cfm) | BC-7 (cfm) | Comments |
|---|---|---|---|---|---|---|---|---|
| 6-Mar-03 | On | 3.9 | 3.9 | 5.3 | 0.1 | 5.1 | 4.6 | pressure 9.0 psi |
| 12-Mar-03 | On | 3.9 | 2.8 | 5.0 | 0.8 | 4.9 | 4.5 | pressure 8.5 psi |
| 20-Mar-03 | On | 3.4 | 4.9 | 3.2 | <1.0 | 4.4 | 4.2 | pressure 9.0 psi |
| 26-Mar-03 | On | 3.5 | 2.5 | 4.3 | <1.0 | 4.2 | 3.6 | pressure 9.0 psi |
| 2-Apr-03 | On | 3.6 | 3.0 | 3.2 | <1.0 | 5.0 | 4.1 | pressure 9.0 psi |
| 9-Apr-03 | On | 3.5 | 3.0 | 3.0 | <1.0 | 5.5 | 4.0 | pressure 8.0 psi |
| 17-Apr-03 | On | 3.6 | >2.0 | 3.2 | >1.0 | 4.0 | 4.0 | pressure 8.0 psi |
| 23-Apr-03 | On | 3.6 | 2.0 | 3.2 | 0.3 | 3.6 | 4.0 | pressure 8.0 psi |
| 30-Apr-03 | On | 3.6 | 3.0 | 3.2 | 0.9 | 3.6 | 4.0 | pressure 8.0 psi |
| 7-May-03 | On | 3.5 | 2.9 | 3.0 | 0.8 | 3.5 | 4.0 | pressure 8.0 psi |
| 15-May-03 | Off | NA | NA | NA | NA | NA | NA | Under repair |
| 20-May-03 | Off | NA | NA | NA | NA | NA | NA | Under repair - compressor replacement |
| 27-May-03 | Off | NA | NA | NA | NA | NA | NA | |
| 4-Jun-03 | Off | NA | NA | NA | NA | NA | NA | |
| 11-Jun-03 | Off | NA | NA | NA | NA | NA | NA | |
| 18-Jun-03 | Off | NA | NA | NA | NA | NA | NA | |
| 25-Jun-03 | Off | NA | NA | NA | NA | NA | NA | |
| 2-Jul-03 | Off | NA | NA | NA | NA | NA | NA | |
| 10-Jul-03 | Off | NA | NA | NA | NA | NA | NA | |
| 16-Jul-03 | Off | NA | NA | NA | NA | NA | NA | |
| 25-Jul-03 | Off | NA | NA | NA | NA | NA | NA | |
| 31-Jul-03 | Off | NA | NA | NA | NA | NA | NA | |
| 7-Aug-03 | Off | NA | NA | NA | NA | NA | NA | |
| 12-Aug-03 | Off | NA | NA | NA | NA | NA | NA | |
| 19-Aug-03 | Off | NA | NA | NA | NA | NA | NA | |
| 26-Aug-03 | Off | NA | NA | NA | NA | NA | NA | |
| 4-Sep-03 | Off | NA | NA | NA | NA | NA | NA | |
| 9-Sep-03 | Off | NA | NA | NA | NA | NA | NA | |
| 16-Sep-03 | Off | NA | NA | NA | NA | NA | NA | |
| 23-Sep-03 | Off | NA | NA | NA | NA | NA | NA | |
| 30-Sep-03 | Off | NA | NA | NA | NA | NA | NA | |
| 7-Oct-03 | Off | NA | NA | NA | NA | NA | NA | |
| 14-Oct-03 | Off | NA | NA | NA | NA | NA | NA | |
| 21-Oct-03 | Off | NA | NA | NA | NA | NA | NA | |
| 28-Oct-03 | Off | NA | NA | NA | NA | NA | NA | |
| 30-Oct-03 | Off | NA | NA | NA | NA | NA | NA | |
| 4-Nov-03 | Off | NA | NA | NA | NA | NA | NA | |
| 11-Nov-03 | Off | NA | NA | NA | NA | NA | NA | |
| 12-Nov-03 | On | 0.0 | 4.0 | 4.0 | 0.0 | 5.0 | 0.0 | |
| 18-Nov-03 | On | 0.0 | 8.0 | NA | 0.0 | 3.0 | 0.0 | |
| 2-Dec-03 | On | 0.0 | 6.0 | NA | 6.2 | 3.4 | 0.0 | |
| 9-Dec-03 | On | 0.0 | 7.0 | NA | 1.0 | 2.5 | 0.0 | |
| 16-Dec-03 | On | 0.0 | 7.0 | NA | 1.0 | 2.5 | 0.0 | |
| 22-Dec-03 | On | 0.0 | 7.0 | NA | 2.0 | 3.0 | 0.0 | |
| 27-Jan-04 | Off | NA | NA | NA | NA | NA | NA | |
| 3-Feb-04 | Off | NA | NA | NA | NA | NA | NA | |
| 5-Feb-04 | On | 5.0 | 5.0 | 4.0 | 1.0 | NA | 8.0 | |
| 10-Feb-04 | On | 5.0 | 5.0 | 4.0 | 1.0 | NA | 8.0 | |
| 3-Mar-04 | Off | NA | NA | NA | NA | NA | NA | Under repair |
| 13-May-04 | Restart | NA | NA | NA | NA | NA | NA | Repaired AS manifold |
| 18-May-04 | On | 4 | 3 | 2 | <1 | >8 | 7 | |
| 25-May-04 | Off | NA | NA | NA | NA | NA | NA | System shut down for biosparging implementation |

Notes:
NA = Not applicable/available
cfm = Cubic feet per minute
psi = Pounds per square inch
* As of March 30, 1999, wells VW-4, VW-5, VW-6 are connected to the influent manifold labeled BC-1.
** As of March 30, 1999, wells VW-7, VW-8, and BC-5 are connected to the influent manifold labeled BC-5.

ARCO Facility No. 6176
SVE Performance
Graph 1



# ATTACHMENT D

Disposal Documentation

NO. 24412

# NON-HAZARDOUS WASTE DATA FORM

| | GENERATING SITE |
|---|---|
| NAME: BP West Coast Products LLC | ARCO STATION # 6176 |
| ADDRESS: P.O. Box 80249 | 1001 E. AMAR ROAD |
| CITY, STATE, ZIP: Rancho Santa Margarita, CA 92688 | WEST COVINA |

PHONE NO. ( 949 )753-5820 SITE CONTACT _____ PROFILE NO. _____

CONTAINERS: No. 1 GALLONS X443 Gallons WEIGHT _____

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

WASTE DESCRIPTION: NON-HAZARDOUS WATER GENERATING PROCESS: GROUNDWATER SAMPLING

| COMPONENTS OF WASTE | PPM | % | COMPONENTS OF WASTE | PPM | % |
|---|---|---|---|---|---|
| 1. WATER | | 99-100% | 4. | | |
| 2. TPH | | <1% | 5. | | |
| 3. | | | 6. BESI # 106994 | | |

PROPERTIES pH 7 ☐ SOLID X LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER _____

HANDLING INSTRUCTIONS: WEAR APPROPRIATE PROTECTIVE CLOTHING

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

Larry Moothart as Agent of BP West Coast Products LLC 12 / 09 / 04

TYPED OR PRINTED FULL NAME & SIGNATURE DATE

NAME: NIETO AND SONS TRUCKING, INC. EPA I.D. NO. _____

ADDRESS: 1281 BREA CANYON ROAD SERVICE ORDER NO. _____

CITY, STATE, ZIP: BREA, CALIFORNIA 92821 PICK UP DATE 12 / 09 / 04

PHONE NO. (714) 990-6855 Salvador Arredondo 12 / 09 / 04

TRUCK UNIT, I.D. NO. X 245 SALVADOR ARREDONDO

TYPED OR PRINTED FULL NAME & SIGNATURE DATE

NAME: DeMenno Kerdoon EPA I.D. NO. _____

ADDRESS: 2000 N. Alameda Street DISPOSAL METHOD: ☐ LANDFILL X ☐ RECYCLER

CITY, STATE, ZIP: Compton, CA 90222 Recycler

PHONE NO. 310-537-7100

Andres Ramirez 12/13 /04

TYPED OR PRINTED FULL NAME & SIGNATURE DATE

FAC# 6176

ID# 25396

| GEN | OLD/NEW | L A | TONS |
|---|---|---|---|
| TRANS | | S B | |
| C/Q | | RT/CD | HWDF NONE |

DISCREPANCY

THIS FACILITY TO BE COMPLETED BY GENERATOR