



Libby Goldstein  
Washington State Department of Ecology  
NW Regional Office  
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Bellevue, WA, 98008-5452

Subject:

Annual Groundwater Monitoring Report, 2011  
Former ARCO Facility No. 11060  
Multi-Site VCP No. NW2463  
4580 Fauntleroy Way Southwest  
Seattle, WA, 98126

Dear Ms. Goldstein:

On behalf of BP West Coast Products, LLC. (BP), ARCADIS U.S., Inc. (ARCADIS) is pleased to submit this *Annual Groundwater Monitoring Report, 2011* for the above referenced facility (the Site). The Site is currently an inactive 76 gas station and retail store located at the southwest corner of the intersection of Southwest Alaska Street and Fauntleroy Way Southwest, in King County, Washington. A Site location map is presented in **Figure 1**.

On May 10 and November 29, 2011, ARCADIS conducted semi-annual groundwater monitoring activities at the Site. During this event, monitoring wells GMW-1, MW-1, MW-2, MW-3, MW-5, MW-6, and MW-9 were gauged and sampled via no-purge methods. Field data sheets are included as **Attachment A**. Groundwater samples were collected using a disposable bailer and were analyzed for total petroleum hydrocarbons – gasoline range organics (GRO) according to Northwest Method NWTPH-Gx, for total petroleum hydrocarbons – diesel range organics (DRO) and heavy oil (HO) according to Northwest Method NWTPH-Dx, for benzene, toluene, ethylbenzene, total xylenes (BTEX collectively), and methyl tertiary butyl ether (MTBE) by Environmental Protection Agency (EPA) Method 8260, and total lead by EPA method 6010. MTBE analysis was not done for the November 29 sampling event. Samples were collected in laboratory provided bottles and placed in a cooler with ice. Samples were submitted to Pace Analytical Services, Inc., in Seattle, Washington, under standard chain-of-custody protocol. The laboratory analytical report and chain-of-custody documentation are included as **Attachment B**. No investigation derived waste (IDW) was generated during this sampling event.

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ENVIRONMENT

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GP09BPNA.WA48.N0000

Imagine the result

During the May 10, 2011 monitoring event, groundwater conditions at the Site remained generally consistent with previous events. The depth to groundwater during this sampling event ranged between 20.70 feet below top of casing (toc) in well MW-9 to 24.61 feet below toc in well MW-5. Groundwater elevations during this sampling event ranged from 243.85 feet above mean sea level (msl) in well MW-5 to 242.65 feet above msl in well MW-9. The inferred direction of groundwater flow is to the northeast. Groundwater gauging data are presented in **Table 1**. Groundwater elevations are presented on **Figure 2**.

Groundwater samples collected from five monitoring wells contained constituents of concern (COCs) at concentrations greater than the Model Toxics Control Act Method A Cleanup Levels (MTCA A CULs) for GRO (800 micrograms per liter ( $\mu\text{g/L}$ )), DRO (500  $\mu\text{g/L}$ ), HO (500  $\mu\text{g/L}$ ), benzene (5  $\mu\text{g/L}$ ) and total lead (15  $\mu\text{g/L}$ ). The samples collected from wells GMW-1, MW-2, including its duplicate sample (DUP), MW-3 and MW-5 contained concentrations of GRO (5,930  $\mu\text{g/L}$ , 5,520  $\mu\text{g/L}$ , 5,000  $\mu\text{g/L}$ , 3,280  $\mu\text{g/L}$  and 4,710  $\mu\text{g/L}$ , respectively) greater than MTCA A CULs. The samples collected from wells GMW-1, MW-1, MW-2, including its DUP and MW-3 contained concentrations of DRO (1,900  $\mu\text{g/L}$ , 840  $\mu\text{g/L}$ , 1,000  $\mu\text{g/L}$ , 850  $\mu\text{g/L}$  and 820  $\mu\text{g/L}$ , respectively) greater than MTCA A CULs. The samples collected from wells MW-2, including its DUP and MW-3 contained concentrations of HO (2,000  $\mu\text{g/L}$ , 1,600  $\mu\text{g/L}$  and 840  $\mu\text{g/L}$ , respectively) greater than MTCA A CULs. The samples collected from wells MW-1, MW-2, including its DUP, MW-3 and MW-5 contained concentrations of benzene (17.8  $\mu\text{g/L}$ , 281  $\mu\text{g/L}$ , 156  $\mu\text{g/L}$ , 33.6  $\mu\text{g/L}$  and 12.4  $\mu\text{g/L}$ , respectively) greater than MTCA A CULs. The Sample collected from well GMW-1 contained a concentration of total lead (28.4  $\mu\text{g/L}$ ) greater than MTCA A CULs.

GRO was detected at concentrations greater than laboratory reporting limits (RLs) but less than MTCA A CULs in the samples collected from wells MW-1 and MW-6 (642  $\mu\text{g/L}$  and 96.0  $\mu\text{g/L}$ , respectively). DRO was detected at concentrations greater than laboratory RLs but less than MTCA A CULs in the samples collected from wells MW-5, MW-6 and MW-9 (470  $\mu\text{g/L}$ , 180  $\mu\text{g/L}$  and 160  $\mu\text{g/L}$ , respectively). Benzene was detected at a concentration greater than laboratory RLs but less than MTCA A CULs in the sample collected from GMW-1 (2.4  $\mu\text{g/L}$ ). Toluene was detected at concentrations greater than laboratory RLs but less than MTCA A CULs in the samples collected from wells MW-1, MW-2 including its DUP, MW-3 and MW-5 (6.6  $\mu\text{g/L}$ , 4.2  $\mu\text{g/L}$ , 3.9  $\mu\text{g/L}$ , 1.2  $\mu\text{g/L}$  and 4.1  $\mu\text{g/L}$ , respectively). Ethylbenzene was detected at concentrations greater than laboratory RLs but less than MTCA A CULs

in the samples collected from wells GMW-1, MW-1, MW-2, including its DUP, MW-3 and MW-5 (69.7 µg/L, 1.8 µg/L, 69.9 µg/L, 76.3 µg/L, 57.5 µg/L and 39.3 µg/L, respectively). Total xylenes were detected at concentrations greater than laboratory RLs but less than MTCA A CULs in the samples collected from wells GMW-1, MW-1, MW-2, including its DUP, MW-3 and MW-5 (94.8 µg/L, 10.9 µg/L, 49.9 µg/L, 53.2 µg/L, 7.9 µg/L and 25.5 µg/L, respectively). MTBE was detected at concentrations greater than laboratory RLs but less than MTCA A CULs in the samples collected from wells MW-1, MW-2, including its DUP and MW-3 (2.5 µg/L, 7.3 µg/L, 5.6 µg/L and 2.4 µg/L, respectively). Groundwater analytical data are presented in **Table 1**, and illustrated on **Figure 2**.

During the November 29, 2011 monitoring event, groundwater conditions at the Site remained generally consistent with previous events. The depth to groundwater during this sampling event ranged between 22.64 feet below toc in well MW-9 to 25.55 feet below toc in well MW-5. Groundwater elevations during this sampling event ranged from 263.35 feet above msl in well MW-9 to 268.46 feet above msl in well MW-5. The inferred direction of groundwater flow is to the northeast. Groundwater gauging data are presented in **Table 1**. Groundwater elevations are presented on **Figure 3**.

Groundwater samples collected from five monitoring wells contained COCs at concentrations greater than the MTCA A CULs for GRO, DRO and benzene. The samples collected from wells GMW-1, MW-1, MW-2, MW-3 and MW-5 contained concentrations of GRO (6,080 µg/L, 815 µg/L, 5,640 µg/L, 3,130 µg/L and 2,210 µg/L, respectively) greater than MTCA A CULs. The sample collected from well GMW-1 contained a concentration of DRO (610 µg/L) greater than MTCA A CULs. The samples collected from wells MW-1, MW-2, MW-3 and MW-5 contained concentrations of benzene (5.5 µg/L, 549 µg/L, 30.4 µg/L and 12.3 µg/L, respectively) greater than MTCA A CULs.

DRO was detected at concentrations greater than laboratory RLs but less than MTCA A CULs in the samples collected from wells MW-2 and MW-5 (98 µg/L, 95 µg/L, respectively). Toluene was detected at concentrations greater than laboratory RLs but less than MTCA A CULs in the samples collected from wells MW-2 and MW-5 (7.0 µg/L and 2.2 µg/L, respectively). Ethylbenzene was detected at concentrations greater than laboratory RLs but less than MTCA A CULs in the samples collected from wells GMW-1, MW-2, MW-3 and MW-5 (86.9 µg/L, 82.6 µg/L, 21.0 µg/L and 6.4 µg/L, respectively). Total xylenes were detected at concentrations greater than laboratory RLs but less than MTCA A CULs in the samples collected

from wells GMW-1, MW-2, MW-3 and MW-5 (113 µg/L, 61.6 µg/L, 6.9 µg/L and 3.1 µg/L, respectively). Total lead was detected at concentrations greater than laboratory RLs but less than MTCA A CULs in the samples collected from wells MW-1 and MW-5 (10.3 µg/L and 10.5 µg/L, respectively).

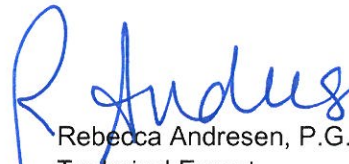
Analytical results for groundwater collected from monitoring wells MW-6 including its DUP and MW-9 did not identify COCs at concentrations greater than laboratory RLs. Groundwater analytical data are presented in **Table 1**, and illustrated on **Figure 3**.

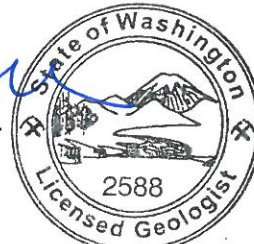
The next groundwater monitoring event at the Site is scheduled for the first half of 2012. Should you have any questions or if ARCADIS can be of further assistance, please contact Scott Zorn at (206) 726-4709.

Sincerely,

ARCADIS U.S., Inc.

  
Scott Zorn  
Senior Geologist

  
Rebecca Andresen, P.G.  
Technical Expert

  
Rebecca K. Andresen

CC: Brandon Kim; Washington Petroleum Inc.

**Attachments:**

|              |                                                                      |
|--------------|----------------------------------------------------------------------|
| Table 1      | Groundwater Gauging Data and Select Analytical Results               |
| Figure 1     | Site Location Map                                                    |
| Figure 2     | Groundwater Elevation Map with Analytical Results, May 10, 2011      |
| Figure 3     | Groundwater Elevation Map with Analytical Results, November 29, 2011 |
| Attachment A | Groundwater Monitoring Field Data Sheets                             |
| Attachment B | Laboratory Report and Chain-of-Custody Documentation                 |



**Table 1**  
**Groundwater Gauging Data and Select Analytical Results**  
**WA-11060**

**4580 Fautleroy Way Sw, Seattle, WA 98126**

*All analytical results are presented in micrograms per liter (µg/L)*

| Well                                                                   | Date       | Notes     | TOC    | DTW   | NAPL | GWE    | GRO       | DRO   | HO   | Benzene | Toluene | Ethylbenzene | Total Xylenes | MTBE  | EDB  | EDC | Total Lead | Dissolved Lead |
|------------------------------------------------------------------------|------------|-----------|--------|-------|------|--------|-----------|-------|------|---------|---------|--------------|---------------|-------|------|-----|------------|----------------|
| Model Toxics Control Act (MTCA) Method A Cleanup Levels (CULs) in µg/L |            |           |        |       |      |        | 800/1,000 | 500   | 500  | 5       | 1,000   | 700          | 1,000         | 20    | 0.01 | 5   | 15         | --             |
| GMW-1                                                                  | 5/10/2011  | (NP)      | --     | 22.08 | 0.0  | --     | 5,930     | 1,900 | <420 | 2.4     | <1.0    | 69.7         | 94.8          | <1.0  | --   | --  | 28.4       | --             |
| GMW-1                                                                  | 11/29/2011 | (NP)      | --     | 23.83 | 0.0  | --     | 6,080     | 610   | <380 | <1.0    | <1.0    | 86.9         | 113           | --    | --   | --  | <10.0      | --             |
| MW-1                                                                   | 5/11/1993  |           | 99.89  | 23.02 | --   | 76.87  | 3,300     | --    | --   | 82      | 11      | 8            | 14            | --    | --   | --  | --         | --             |
| MW-1                                                                   | 3/4/1994   |           | 99.89  | 24.32 | --   | 75.57  | 830       | 580   | --   | 6       | 3       | 3            | 11            | --    | --   | --  | 38         | <3             |
| MW-1                                                                   | 7/6/1994   |           | 99.89  | 24.60 | --   | 75.29  | 900       | <250  | --   | 5       | <0.5    | 2            | 10            | --    | --   | --  | --         | --             |
| MW-1                                                                   | 10/7/1994  |           | 99.89  | 24.97 | --   | 74.92  | 1,500     | --    | --   | 6       | <0.5    | 3            | 11            | --    | --   | --  | --         | --             |
| MW-1                                                                   | 12/28/1994 |           | 99.89  | 24.86 | --   | 75.03  | 1,400     | --    | --   | 5       | <0.5    | 2            | 7             | --    | --   | --  | --         | --             |
| MW-1                                                                   | 3/13/1995  |           | 99.89  | 24.16 | --   | 75.73  | 1,400     | --    | --   | 16      | <0.5    | 3            | 9             | --    | --   | --  | --         | --             |
| MW-1                                                                   | 6/30/1995  |           | 99.89  | 23.98 | --   | 75.91  | 1,400     | --    | --   | 4       | <0.5    | 3            | 7             | --    | --   | --  | --         | --             |
| MW-1                                                                   | 9/6/1995   |           | 99.89  | 24.30 | --   | 75.59  | 1,300     | --    | --   | 5       | <0.5    | 3            | 6             | --    | --   | --  | --         | --             |
| MW-1                                                                   | 12/8/1995  |           | 99.89  | 24.41 | --   | 75.48  | 1,300     | --    | --   | 7       | 2       | 2            | 7             | --    | --   | --  | --         | --             |
| MW-1                                                                   | 3/11/1996  |           | 99.89  | 23.11 | --   | 76.78  | 900       | --    | --   | 3       | <0.5    | <0.5         | 1             | --    | --   | --  | --         | --             |
| MW-1                                                                   | 6/18/1996  |           | 99.89  | 22.80 | --   | 77.09  | 400       | --    | --   | 1       | 1       | <0.5         | 2             | --    | --   | --  | --         | --             |
| MW-1                                                                   | 9/9/1996   |           | 99.89  | 23.11 | --   | 76.78  | 600       | --    | --   | 2       | <0.5    | 1            | 1             | 13    | --   | --  | --         | --             |
| MW-1                                                                   | 12/11/1996 |           | 99.89  | 23.07 | --   | 76.82  | 710       | --    | --   | 4       | 2       | 2            | 4             | <10   | --   | --  | --         | --             |
| MW-1                                                                   | 3/13/1997  |           | 99.89  | 22.12 | --   | 77.77  | 100       | --    | --   | <0.5    | <0.5    | <0.5         | <1.0          | <5    | --   | --  | --         | --             |
| MW-1                                                                   | 6/5/1997   |           | 99.89  | 21.75 | --   | 78.14  | 250       | --    | --   | 2       | 2       | <0.5         | <1.5          | 5     | --   | --  | --         | --             |
| MW-1                                                                   | 9/5/1997   |           | 99.89  | 22.03 | --   | 77.86  | 300       | --    | --   | 8       | 4       | 2            | 6             | 8     | --   | --  | --         | --             |
| MW-1                                                                   | 4/2/1998   |           | 99.89  | 21.27 | --   | 78.62  | 210       | --    | --   | 1       | 3       | <0.5         | <1.5          | <5    | --   | --  | --         | --             |
| MW-1                                                                   | 6/8/1998   |           | 99.89  | 21.53 | --   | 78.36  | 300       | --    | --   | <0.5    | 3       | 1            | 4             | 6     | --   | --  | --         | --             |
| MW-1                                                                   | 12/9/1998  |           | 99.89  | 22.22 | --   | 77.67  | <500      | --    | --   | <0.5    | <5.0    | <5.0         | <5.0          | <5.0  | --   | --  | --         | --             |
| MW-1                                                                   | 6/26/1999  |           | 99.89  | 21.08 | --   | 78.81  | <100      | --    | --   | <1.0    | <1.0    | <1.0         | <1.0          | <1.0  | --   | --  | --         | --             |
| MW-1                                                                   | 9/28/1999  |           | 99.89  | 21.88 | --   | 78.01  | --        | --    | --   | --      | --      | --           | --            | --    | --   | --  | --         | --             |
| MW-1                                                                   | 1/19/2000  |           | 99.89  | 21.46 | --   | 78.43  | <50       | --    | --   | <0.5    | 4       | 1            | 3             | <0.5  | --   | --  | --         | --             |
| MW-1                                                                   | 3/24/2000  |           | 99.89  | 21.40 | --   | 78.49  | --        | --    | --   | --      | --      | --           | --            | --    | --   | --  | --         | --             |
| MW-1                                                                   | 7/2/2000   |           | 99.89  | 21.92 | --   | 77.97  | 120       | --    | --   | 1       | <0.5    | 1            | 2             | 2     | --   | --  | --         | --             |
| MW-1                                                                   | 9/14/2000  |           | 99.89  | 22.54 | --   | 77.35  | --        | --    | --   | --      | --      | --           | --            | --    | --   | --  | --         | --             |
| MW-1                                                                   | 12/14/2000 |           | 99.89  | 22.81 | --   | 77.08  | 1,700     | --    | --   | <10     | 19      | <10          | <30           | <40   | --   | --  | --         | --             |
| MW-1                                                                   | 9/22/2001  |           | 99.89  | 23.55 | --   | 76.34  | --        | --    | --   | --      | --      | --           | --            | --    | --   | --  | --         | --             |
| MW-1                                                                   | 12/9/2001  |           | 99.89  | 23.63 | --   | 76.26  | --        | --    | --   | --      | --      | --           | --            | --    | --   | --  | --         | --             |
| MW-1                                                                   | 3/20/2002  |           | 99.89  | 22.88 | --   | 77.01  | --        | --    | --   | --      | --      | --           | --            | --    | --   | --  | --         | --             |
| MW-1                                                                   | 6/11/2002  |           | 99.89  | 23.02 | --   | 76.87  | --        | --    | --   | --      | --      | --           | --            | --    | --   | --  | --         | --             |
| MW-1                                                                   | 12/21/2002 | (NS)      | 99.89  | 24.54 | --   | 75.35  | --        | --    | --   | --      | --      | --           | --            | --    | --   | --  | --         | --             |
| MW-1                                                                   | 3/19/2003  | (NS)      | 99.89  | 24.50 | --   | 75.39  | --        | --    | --   | --      | --      | --           | --            | --    | --   | --  | --         | --             |
| MW-1                                                                   | 6/18/2003  | (NS)      | 99.89  | 24.36 | --   | 75.53  | --        | --    | --   | --      | --      | --           | --            | --    | --   | --  | --         | --             |
| MW-1                                                                   | 9/23/2003  | (NS)      | 99.89  | --    | --   | --     | --        | --    | --   | --      | --      | --           | --            | --    | --   | --  | --         | --             |
| MW-1                                                                   | 10/21/2003 | (P)       | 99.89  | 25.04 | --   | 74.85  | 3,270     | --    | --   | 32.5    | 4.61    | 17.3         | 19.2          | <1.00 | --   | --  | --         | --             |
| MW-1                                                                   | 6/29/2004  | (NS)      | 99.89  | 24.22 | --   | 75.67  | --        | --    | --   | --      | --      | --           | --            | --    | --   | --  | --         | --             |
| MW-1                                                                   | 11/15/2004 | (NS)      | 99.89  | 25.11 | --   | 74.78  | --        | --    | --   | --      | --      | --           | --            | --    | --   | --  | --         | --             |
| MW-1                                                                   | 4/14/2005  | (NS)      | 99.89  | 25.10 | --   | 74.79  | --        | --    | --   | --      | --      | --           | --            | --    | --   | --  | --         | --             |
| MW-1                                                                   | 12/18/2005 | (NP)      | 99.89  | 25.46 | --   | 74.43  | 2,960     | --    | --   | 10.8    | 2.04    | 1.23         | 2.76          | <1.00 | --   | --  | --         | --             |
| MW-1                                                                   | 6/11/2006  | (NP)      | 99.89  | 24.54 | --   | 75.35  | 1,840     | --    | --   | 11.4    | 1.12    | 1.6          | 2.34          | 19.8  | --   | --  | --         | --             |
| MW-1                                                                   | 11/5/2006  | (NP)      | 99.89  | 25.59 | --   | 74.30  | 3,880     | --    | --   | 73.2    | 6.12    | 2.04         | <6.00         | --    | --   | --  | --         | --             |
| MW-1                                                                   | 9/25/2007  | (NP)      | 99.89  | 25.08 | --   | 74.81  | 1,640     | --    | --   | 27.8    | 1.67    | 0.86         | <3.00         | --    | --   | --  | --         | --             |
| MW-1                                                                   | 12/31/2007 | (NP)      | 99.89  | 25.23 | --   | 74.66  | 1,970     | --    | --   | 22.7    | 1.34    | 1.03         | <3.00         | --    | --   | --  | --         | --             |
| MW-1                                                                   | 5/29/2008  | (NP)      | 99.89  | 25.01 | --   | 74.88  | 2,370     | --    | --   | 3.58    | 0.58    | <0.500       | <3.00         | --    | --   | --  | --         | --             |
| MW-1                                                                   | 10/28/2008 | (NP)      | 99.89  | 25.80 | --   | 74.09  | 1,450     | --    | --   | 2.8     | 1.07    | <0.500       | <3.00         | --    | --   | --  | --         | --             |
| MW-1                                                                   | 6/22/2009  | (NP)      | 99.89  | 26.11 | --   | 73.78  | 2,200     | --    | --   | 30      | 5.7     | 24           | 30.5          | --    | --   | --  | 4.9        | <2.00          |
| MW-1                                                                   | 12/15/2009 | (NP)      | 99.89  | 26.31 | --   | 73.58  | 1,500     | --    | --   | 11      | 2       | 4.8          | 3.6           | --    | --   | --  | 3.8        | <2.00          |
| MW-1                                                                   | 3/24/2010  | (NS)      | 267.43 | 21.03 | 0.0  | 246.40 | --        | --    | --   | --      | --      | --           | --            | --    | --   | --  | --         | --             |
| MW-1                                                                   | 5/24/2010  | (NP)      | 99.89  | 25.20 | --   | 74.69  | 940       | --    | --   | 18      | <2.5    | <2.5         | 6.4           | --    | --   | --  | --         | --             |
| MW-1                                                                   | 5/24/2010  | (Dup)(NP) | 99.89  | 25.20 | --   | 74.69  | 940       | --    | --   | 22      | <2.5    | <2.5         | 6.8           | --    | --   | --  | --         | --             |
| MW-1                                                                   | 10/12/2010 | (NP)      | 267.43 | 25.09 | 0.0  | 242.34 | 849       | --    | --   | 2.8     | <1.0    | 1.2          | <3.0          | 5.2   | --   | --  | <10.0      | --             |
| MW-1                                                                   | 5/10/2011  | (NP)      | 267.43 | 23.60 | 0.0  | 243.83 | 642       | 840   | <420 | 17.8    | 6.6     | 1.8          | 10.9          | 2.5   | --   | --  | <10.0      | --             |
| MW-1                                                                   | 11/29/2011 | (NP)      | 267.43 | 24.84 | 0.0  | 242.59 | 815       | <75   | <380 | 5.5     | <1.0    | <1.0         | <3.0          | --    | --   | --  | 10.3       | --             |

**Table 1**  
**Groundwater Gauging Data and Select Analytical Results**  
**WA-11060**

**4580 Fauntleroy Way Sw, Seattle, WA 98126**

*All analytical results are presented in micrograms per liter (µg/L)*

| Well                                                                   | Date       | Notes     | TOC    | DTW   | NAPL | GWE    | GRO       | DRO   | HO    | Benzene | Toluene | Ethylbenzene | Total Xylenes | MTBE  | EDB  | EDC | Total Lead | Dissolved Lead |
|------------------------------------------------------------------------|------------|-----------|--------|-------|------|--------|-----------|-------|-------|---------|---------|--------------|---------------|-------|------|-----|------------|----------------|
| Model Toxics Control Act (MTCA) Method A Cleanup Levels (CULs) in µg/L |            |           |        |       |      |        | 800/1,000 | 500   | 500   | 5       | 1,000   | 700          | 1,000         | 20    | 0.01 | 5   | 15         | --             |
| MW-2                                                                   | 5/11/1993  |           | 99.05  | 22.98 | --   | 76.07  | 17,000    | --    | --    | 2,500   | 48      | 100          | 240           | --    | --   | --  | --         | --             |
| MW-2                                                                   | 3/4/1994   |           | 99.05  | 24.30 | --   | 74.75  | 4,300     | 1,300 | --    | 1,500   | 20      | 130          | 180           | --    | --   | --  | 5          | <3             |
| MW-2                                                                   | 7/6/1994   |           | 99.05  | 24.54 | --   | 74.51  | 4,400     | 390   | --    | 1,100   | 16      | 53           | 97            | --    | --   | --  | --         | --             |
| MW-2                                                                   | 10/7/1994  |           | 99.05  | 24.94 | --   | 74.11  | 4,400     | --    | --    | 1,100   | 18      | 57           | 82            | --    | --   | --  | --         | --             |
| MW-2                                                                   | 12/28/1994 |           | 99.05  | 24.60 | --   | 74.45  | 2,100     | --    | --    | 250     | 5       | 13           | 14            | --    | --   | --  | --         | --             |
| MW-2                                                                   | 3/13/1995  |           | 99.05  | 23.84 | --   | 75.21  | 2,700     | --    | --    | 200     | 12      | 29           | 50            | --    | --   | --  | --         | --             |
| MW-2                                                                   | 6/30/1995  |           | 99.05  | 23.72 | --   | 75.33  | 3,400     | --    | --    | 400     | 8       | 50           | 39            | --    | --   | --  | --         | --             |
| MW-2                                                                   | 9/6/1995   |           | 99.05  | 23.97 | --   | 75.08  | 3,400     | --    | --    | 350     | 8       | 50           | 35            | --    | --   | --  | --         | --             |
| MW-2                                                                   | 12/8/1995  |           | 99.05  | 23.97 | --   | 75.08  | 3,100     | --    | --    | 610     | 5       | 29           | 36            | --    | --   | --  | --         | --             |
| MW-2                                                                   | 3/11/1996  |           | 99.05  | 22.66 | --   | 76.39  | 5,400     | --    | --    | 280     | 12      | 100          | 120           | --    | --   | --  | --         | --             |
| MW-2                                                                   | 6/18/1996  |           | 99.05  | 22.18 | --   | 76.87  | 4,500     | --    | --    | 280     | 12      | 130          | 56            | --    | --   | --  | --         | --             |
| MW-2                                                                   | 9/9/1996   |           | 99.05  | 22.72 | --   | 76.33  | 4,100     | --    | --    | 790     | 5       | 78           | 35            | <1.0  | --   | --  | --         | --             |
| MW-2                                                                   | 12/11/1996 |           | 99.05  | 22.67 | --   | 76.38  | 3,700     | --    | --    | 460     | 13      | 65           | 41            | 43    | --   | --  | --         | --             |
| MW-2                                                                   | 3/13/1997  |           | 99.05  | 21.91 | --   | 77.14  | 3,200     | --    | --    | 140     | 12      | 130          | 48            | <50   | --   | --  | --         | --             |
| MW-2                                                                   | 6/5/1997   |           | 99.05  | 21.06 | --   | 77.99  | 3,400     | --    | --    | 160     | 22      | 180          | 79            | <100  | --   | --  | --         | --             |
| MW-2                                                                   | 9/5/1997   |           | 99.05  | 21.74 | --   | 77.31  | --        | --    | --    | --      | --      | --           | --            | --    | --   | --  | --         | --             |
| MW-2                                                                   | 4/2/1998   |           | 99.05  | 20.71 | --   | 78.34  | 4,700     | --    | --    | 170     | 51      | 35           | 210           | <50   | --   | --  | --         | --             |
| MW-2                                                                   | 6/8/1998   |           | 99.05  | 21.25 | --   | 77.80  | 3,800     | --    | --    | 420     | 26      | 150          | 75            | 140   | --   | --  | --         | --             |
| MW-2                                                                   | 9/17/1998  |           | 99.05  | 22.10 | --   | 76.95  | 2,900     | --    | --    | 720     | 15      | 79           | 44            | <5.0  | --   | --  | --         | --             |
| MW-2                                                                   | 12/9/1998  |           | 99.05  | 21.99 | --   | 77.06  | 4,500     | --    | --    | 520     | 8       | 100          | 62            | <5.0  | --   | --  | --         | --             |
| MW-2                                                                   | 3/17/1999  |           | 99.05  | 19.67 | --   | 79.38  | 5,000     | --    | --    | 19      | 27      | 300          | 230           | <5.0  | --   | --  | --         | --             |
| MW-2                                                                   | 6/26/1999  |           | 99.05  | 21.26 | --   | 77.79  | 3,400     | --    | --    | 400     | 29      | 160          | 130           | 13    | --   | --  | --         | --             |
| MW-2                                                                   | 9/28/1999  |           | 99.05  | 21.75 | --   | 77.30  | 7,300     | --    | --    | 690     | 20      | 23           | 110           | 87    | --   | --  | --         | --             |
| MW-2                                                                   | 1/19/2000  |           | 99.05  | 21.12 | --   | 77.93  | 8,700     | --    | --    | 920     | 20      | 260          | 74            | <0.5  | --   | --  | --         | --             |
| MW-2                                                                   | 3/24/2000  |           | 99.05  | 20.74 | --   | 78.31  | 10,000    | --    | --    | 310     | 79      | 240          | 97            | <5    | --   | --  | --         | --             |
| MW-2                                                                   | 7/2/2000   |           | 99.05  | 21.51 | --   | 77.54  | 8,200     | --    | --    | 520     | 35      | 190          | 85            | 49    | --   | --  | --         | --             |
| MW-2                                                                   | 9/14/2000  |           | 99.05  | 22.31 | --   | 76.74  | 14,000    | --    | --    | 1,100   | 100     | 110          | 100           | <5    | --   | --  | --         | --             |
| MW-2                                                                   | 12/14/2000 |           | 99.05  | 22.97 | --   | 76.08  | 15,000    | --    | --    | 740     | <10     | 68           | <30           | <40   | --   | --  | --         | --             |
| MW-2                                                                   | 9/22/2001  |           | 99.05  | 23.59 | --   | 75.46  | 12,000    | --    | --    | 180     | 9       | 240          | 110           | 20    | --   | --  | --         | --             |
| MW-2                                                                   | 12/9/2001  |           | 99.05  | 23.27 | --   | 75.78  | 14,000    | --    | --    | 310     | 9.5     | 100          | 96            | <4.0  | --   | --  | --         | --             |
| MW-2                                                                   | 3/20/2002  |           | 99.05  | 22.41 | --   | 76.64  | 15,000    | --    | --    | 250     | <5.0    | 220          | 98            | 280   | --   | --  | --         | --             |
| MW-2                                                                   | 6/11/2002  |           | 99.05  | 22.61 | --   | 76.44  | 13,000    | --    | --    | 290     | <10     | 160          | 57            | <40   | --   | --  | --         | --             |
| MW-2                                                                   | 12/21/2002 | (P)       | 99.05  | 24.30 | --   | 74.75  | 5,970     | --    | --    | 111     | 13.4    | 211          | 70.3          | 148   | --   | --  | --         | --             |
| MW-2                                                                   | 3/19/2003  | (P)       | 266.69 | 23.90 | 0.0  | 242.79 | 5,270     | --    | --    | 79.9    | 8.71    | 156          | 55            | <25.0 | --   | --  | --         | --             |
| MW-2                                                                   | 6/18/2003  | (P)       | 99.05  | 23.87 | --   | 75.18  | 6,770     | --    | --    | 36.7    | 14.7    | 245          | 119           | 143   | --   | --  | --         | --             |
| MW-2                                                                   | 9/23/2003  | (P)       | 266.69 | 24.33 | 0.0  | 242.36 | 6,490     | --    | --    | 40.5    | 15.8    | 179          | 103           | <20.0 | --   | --  | --         | --             |
| MW-2                                                                   | 10/21/2003 | (P)       | 99.05  | 24.38 | --   | 74.67  | 4,600     | --    | --    | 31.1    | 9.38    | 86           | 61            | <1.00 | --   | --  | --         | --             |
| MW-2                                                                   | 6/29/2004  | (NP)      | 99.05  | 23.74 | --   | 75.31  | 5,550     | --    | --    | 17.8    | 11.2    | 228          | 76.5          | 95.2  | --   | --  | --         | --             |
| MW-2                                                                   | 11/15/2004 | (NP)      | 99.05  | 24.70 | --   | 74.35  | 5,670     | --    | --    | 12.3    | 6.11    | 135          | 63.3          | <2.00 | --   | --  | --         | --             |
| MW-2                                                                   | 4/14/2005  | (NP)      | 99.05  | 24.69 | --   | 74.36  | 4,680     | --    | --    | 130     | 2.8     | 41.8         | 26.6          | <2.00 | --   | --  | --         | --             |
| MW-2                                                                   | 12/18/2005 | (NP)      | 99.05  | 25.15 | --   | 73.90  | 5,700     | --    | --    | 122     | 3.5     | 43.9         | 27.8          | <5.00 | --   | --  | --         | --             |
| MW-2                                                                   | 6/11/2006  | (NP)      | 99.05  | 24.01 | --   | 75.04  | 5,450     | --    | --    | 4.48    | 5.8     | 118          | 56.7          | <2.00 | --   | --  | --         | --             |
| MW-2                                                                   | 11/5/2006  | (NP)      | 99.05  | 25.40 | --   | 73.65  | 7,490     | --    | --    | 263     | <5.00   | 46.2         | <30.0         | --    | --   | --  | --         | --             |
| MW-2                                                                   | 9/25/2007  | (NP)      | 99.05  | 24.72 | --   | 74.33  | 7,530     | --    | --    | 715     | 9.74    | 50.8         | 64            | --    | --   | --  | --         | --             |
| MW-2                                                                   | 12/31/2007 | (NP)      | 99.05  | 24.67 | --   | 74.38  | 6,000     | --    | --    | 477     | 10.6    | 69.3         | 76.3          | --    | --   | --  | --         | --             |
| MW-2                                                                   | 5/29/2008  | (NP)      | 99.05  | 24.73 | --   | 74.32  | 9,600     | --    | --    | 648     | 11.1    | 55.9         | 48.4          | --    | --   | --  | --         | --             |
| MW-2                                                                   | 10/28/2008 | (NP)      | 99.05  | 25.74 | --   | 73.31  | 10,300    | --    | --    | 1,430   | 16      | 194          | 145           | --    | --   | --  | --         | --             |
| MW-2                                                                   | 6/22/2009  | (NP)      | 99.05  | 25.91 | --   | 73.14  | 4,800     | --    | --    | 1,200   | 40      | 100          | 130           | --    | --   | --  | <2.00      | <2.00          |
| MW-2                                                                   | 12/15/2009 | (NP)      | 99.05  | 25.87 | --   | 73.18  | 4,300     | --    | --    | 1,600   | 8.2     | 66           | 82            | --    | --   | --  | <2.00      | <2.00          |
| MW-2                                                                   | 3/24/2010  | (NS)      | 266.69 | 21.11 | 0.0  | 245.58 | --        | --    | --    | --      | --      | --           | --            | --    | --   | --  | --         | --             |
| MW-2                                                                   | 5/24/2010  | (NP)      | 99.05  | 24.64 | --   | 74.41  | 4,200     | --    | --    | 320     | 7.7     | 69           | 84            | --    | --   | --  | --         | --             |
| MW-2                                                                   | 10/12/2010 | (NP)      | 266.69 | 25.03 | 0.0  | 241.66 | 3,590     | --    | --    | 1,890   | 14.8    | 54.8         | 39.7          | 15.5  | --   | --  | <10.0      | --             |
| MW-2                                                                   | 5/10/2011  | (NP)      | 266.69 | 23.23 | 0.0  | 243.46 | 5,520     | 1,000 | 2,000 | 281     | 4.2     | 69.9         | 49.9          | 7.3   | --   | --  | <10.0      | --             |
| MW-2                                                                   | 5/10/2011  | (Dup)(NP) | 266.69 | 23.23 | 0.0  | 243.46 | 5,000     | 850   | 1,600 | 156     | 3.9     | 76.3         | 53.2          | 5.6   | --   | --  | <10.0      | --             |
| MW-2                                                                   | 11/29/2011 | (NP)      | 266.69 | 24.82 | 0.0  | 241.87 | 5,640     | 98    | <380  | 549     | 7.0     | 82.6         | 61.6          | --    | --   | --  | <10.0      | --             |

**Table 1**  
**Groundwater Gauging Data and Select Analytical Results**  
**WA-11060**

4580 Fauntleroy Way Sw, Seattle, WA 98126

All analytical results are presented in micrograms per liter (µg/L)

| Well                                                                           | Date       | Notes | TOC    | DTW   | NAPL | GWE    | GRO              | DRO        | HO         | Benzene  | Toluene      | Ethylbenzene | Total Xylenes | MTBE      | EDB         | EDC      | Total Lead | Dissolved Lead |
|--------------------------------------------------------------------------------|------------|-------|--------|-------|------|--------|------------------|------------|------------|----------|--------------|--------------|---------------|-----------|-------------|----------|------------|----------------|
| <b>Model Toxics Control Act (MTCOA) Method A Cleanup Levels (CULs) in µg/L</b> |            |       |        |       |      |        | <b>800/1,000</b> | <b>500</b> | <b>500</b> | <b>5</b> | <b>1,000</b> | <b>700</b>   | <b>1,000</b>  | <b>20</b> | <b>0.01</b> | <b>5</b> | <b>15</b>  | <b>--</b>      |
| MW-3                                                                           | 6/7/1993   |       | 98.53  | 22.28 | --   | 76.25  | 2,200            | --         | --         | 140      | 7            | 13           | 14            | --        | --          | --       | --         | --             |
| MW-3                                                                           | 3/4/1994   |       | 98.53  | 23.62 | --   | 74.91  | 1,200            | 590        | --         | 99       | 2            | 11           | 10            | --        | --          | --       | 4          | <3             |
| MW-3                                                                           | 7/6/1994   |       | 98.53  | 23.84 | --   | 74.69  | 1,500            | 270        | --         | 44       | 6            | 26           | 27            | --        | --          | --       | --         | --             |
| MW-3                                                                           | 10/7/1994  |       | 98.53  | 24.21 | --   | 74.32  | 1,500            | --         | --         | 63       | 4            | 16           | 13            | --        | --          | --       | --         | --             |
| MW-3                                                                           | 12/28/1994 |       | 98.53  | 23.91 | --   | 74.62  | 1,800            | --         | --         | 77       | 3            | 13           | 9             | --        | --          | --       | --         | --             |
| MW-3                                                                           | 3/13/1995  |       | 98.53  | 23.12 | --   | 75.41  | 1,700            | --         | --         | 87       | 4            | 18           | 10            | --        | --          | --       | --         | --             |
| MW-3                                                                           | 6/30/1995  |       | 98.53  | 23.87 | --   | 74.66  | 1,800            | --         | --         | 90       | 3            | 52           | 13            | --        | --          | --       | --         | --             |
| MW-3                                                                           | 9/6/1995   |       | 98.53  | 23.14 | --   | 75.39  | 1,700            | --         | --         | 96       | 3            | 41           | 14            | --        | --          | --       | --         | --             |
| MW-3                                                                           | 12/8/1995  |       | 98.53  | 23.20 | --   | 75.33  | 1,800            | --         | --         | 73       | 4            | 23           | 15            | --        | --          | --       | --         | --             |
| MW-3                                                                           | 3/11/1996  |       | 98.53  | 21.63 | --   | 76.90  | 2,800            | --         | --         | 120      | 11           | 170          | 36            | --        | --          | --       | --         | --             |
| MW-3                                                                           | 6/18/1996  |       | 98.53  | 21.20 | --   | 77.33  | 3,500            | --         | --         | 150      | 18           | 320          | 59            | --        | --          | --       | --         | --             |
| MW-3                                                                           | 9/9/1996   |       | 98.53  | 21.67 | --   | 76.86  | 3,500            | --         | --         | 62       | 16           | 220          | 96            | 15        | --          | --       | --         | --             |
| MW-3                                                                           | 12/11/1996 |       | 98.53  | 21.87 | --   | 76.66  | 2,100            | --         | --         | 96       | 9            | <0.5         | 34            | <10       | --          | --       | --         | --             |
| MW-3                                                                           | 3/13/1997  |       | 98.53  | 20.67 | --   | 77.86  | 3,100            | --         | --         | 97       | 13           | 250          | 65            | <50       | --          | --       | --         | --             |
| MW-3                                                                           | 6/5/1997   |       | 98.53  | 19.83 | --   | 78.70  | 3,900            | --         | --         | 46       | 19           | 250          | 130           | <100      | --          | --       | --         | --             |
| MW-3                                                                           | 9/5/1997   |       | 98.53  | 20.72 | --   | 77.81  | 4,400            | --         | --         | 98       | 29           | 270          | 140           | <5        | --          | --       | --         | --             |
| MW-3                                                                           | 4/2/1998   |       | 98.53  | 19.63 | --   | 78.90  | 3,700            | --         | --         | 80       | 25           | 320          | 150           | <50       | --          | --       | --         | --             |
| MW-3                                                                           | 6/8/1998   |       | 98.53  | 20.26 | --   | 78.27  | 3,500            | --         | --         | 60       | 22           | 240          | 96            | <50       | --          | --       | --         | --             |
| MW-3                                                                           | 9/17/1998  |       | 98.53  | 21.21 | --   | 77.32  | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-3                                                                           | 12/9/1998  |       | 98.53  | 21.06 | --   | 77.47  | 3,200            | --         | --         | 63       | 9            | 170          | 59            | <5.0      | --          | --       | --         | --             |
| MW-3                                                                           | 3/17/1999  |       | 98.53  | 18.72 | --   | 79.81  | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-3                                                                           | 6/26/1999  |       | 98.53  | 19.92 | --   | 78.61  | 3,100            | --         | --         | 72       | 16           | 270          | 52            | 56        | --          | --       | --         | --             |
| MW-3                                                                           | 9/28/1999  |       | 98.53  | 20.79 | --   | 77.74  | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-3                                                                           | 1/19/2000  |       | 98.53  | 20.19 | --   | 78.34  | 5,700            | --         | --         | 72       | 29           | 430          | 110           | <0.5      | --          | --       | --         | --             |
| MW-3                                                                           | 3/24/2000  |       | 98.53  | 19.64 | --   | 78.89  | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-3                                                                           | 7/2/2000   |       | 98.53  | 20.53 | --   | 78.00  | 3,300            | --         | --         | 35       | 18           | 230          | 64            | 7         | --          | --       | --         | --             |
| MW-3                                                                           | 9/14/2000  |       | 98.53  | 21.34 | --   | 77.19  | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-3                                                                           | 12/14/2000 |       | 98.53  | 21.90 | --   | 76.63  | 5,500            | --         | --         | 40       | <10          | 210          | <30           | <40       | --          | --       | --         | --             |
| MW-3                                                                           | 9/22/2001  |       | 98.53  | 22.82 | --   | 75.71  | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-3                                                                           | 12/9/2001  |       | 98.53  | 22.50 | --   | 76.03  | 4,200            | --         | --         | 42       | 4.1          | 77           | 22            | <4.0      | --          | --       | --         | --             |
| MW-3                                                                           | 3/20/2002  |       | 98.53  | 21.55 | --   | 76.98  | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-3                                                                           | 6/11/2002  |       | 98.53  | 21.69 | --   | 76.84  | 8,400            | --         | --         | 77       | <5.0         | 320          | 54            | <20       | --          | --       | --         | --             |
| MW-3                                                                           | 12/21/2002 |       | 98.53  | 24.37 | --   | 74.16  | 3,440            | --         | --         | 37.7     | 3.31         | 68.6         | 18.3          | 39.3      | --          | --       | --         | --             |
| MW-3                                                                           | 3/19/2003  | (NS)  | 98.53  | 23.17 | --   | 75.36  | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-3                                                                           | 6/18/2003  |       | 98.53  | 22.82 | --   | 75.71  | 4,020            | --         | --         | 39.1     | 4.22         | 113          | 30.3          | 62.6      | --          | --       | --         | --             |
| MW-3                                                                           | 9/23/2003  | (NS)  | 98.53  | 23.55 | --   | 74.98  | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-3                                                                           | 10/21/2003 |       | 98.53  | 23.52 | --   | 75.01  | 3,190            | --         | --         | 19.8     | 2.92         | 31.2         | 16.3          | <1.00     | --          | --       | --         | --             |
| MW-3                                                                           | 6/29/2004  | (NS)  | 98.53  | --    | --   | --     | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-3                                                                           | 11/15/2004 | (NP)  | 98.53  | 23.95 | --   | 74.58  | 3,170            | --         | --         | 15.8     | 2.36         | 20.9         | 11.1          | 2.36      | --          | --       | --         | --             |
| MW-3                                                                           | 4/14/2005  | (NP)  | 98.53  | 23.90 | --   | 74.63  | 3,340            | --         | --         | 17.1     | 5.21         | 14.3         | 11.2          | <2.00     | --          | --       | --         | --             |
| MW-3                                                                           | 12/18/2005 | (NP)  | 98.53  | 24.42 | --   | 74.11  | 4,150            | --         | --         | 15.1     | 2.92         | 20.7         | 15.1          | <1.00     | --          | --       | --         | --             |
| MW-3                                                                           | 6/11/2006  | (NP)  | 98.53  | 23.48 | --   | 75.05  | 4,000            | --         | --         | 20.9     | 3.6          | 30           | 21.3          | 1.11      | --          | --       | --         | --             |
| MW-3                                                                           | 11/5/2006  | (NP)  | 98.53  | 24.59 | --   | 73.94  | 4,970            | --         | --         | 16.8     | 2.85         | 19           | 16.6          | --        | --          | --       | --         | --             |
| MW-3                                                                           | 9/25/2007  | (NP)  | 98.53  | 23.84 | --   | 74.69  | 4,530            | --         | --         | 18.2     | 2.34         | 17.1         | 13.8          | --        | --          | --       | --         | --             |
| MW-3                                                                           | 12/31/2007 | (NP)  | 98.53  | 23.83 | --   | 74.70  | 4,490            | --         | --         | 16.5     | 2.38         | 32.7         | 16.1          | --        | --          | --       | --         | --             |
| MW-3                                                                           | 5/29/2008  | (NP)  | 98.53  | 23.90 | --   | 74.63  | 5,350            | --         | --         | 16.5     | 1.83         | 14.4         | 15            | --        | --          | --       | --         | --             |
| MW-3                                                                           | 10/28/2008 | (NP)  | 98.53  | 24.97 | --   | 73.56  | 3,250            | --         | --         | 14.4     | 1.86         | 13.8         | 10.3          | --        | --          | --       | --         | --             |
| MW-3                                                                           | 6/22/2009  | (NP)  | 98.53  | 25.29 | --   | 73.24  | 2,000            | --         | --         | 15       | 1.7          | 35           | 7.3           | --        | --          | --       | <2.00      | <2.00          |
| MW-3                                                                           | 12/15/2009 | (NP)  | 98.53  | 25.14 | --   | 73.39  | 2,100            | --         | --         | 13       | 1.5          | 28           | 7.3           | --        | --          | --       | 7.7        | <2.00          |
| MW-3                                                                           | 3/24/2010  | (NS)  | 266.00 | 21.21 | 0.0  | 244.79 | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-3                                                                           | 5/24/2010  | (NP)  | 98.53  | 24.10 | --   | 74.43  | 2,300            | --         | --         | 29       | 6.2          | 28           | 19            | --        | --          | --       | --         | --             |
| MW-3                                                                           | 10/12/2010 | (NP)  | 266.00 | 24.40 | 0.0  | 241.60 | 2,380            | --         | --         | 31.1     | <1.0         | 16.6         | 4.7           | <1.0      | --          | --       | <10.0      | --             |
| MW-3                                                                           | 5/10/2011  | (NP)  | 266.00 | 22.55 | 0.0  | 243.45 | 3,280            | 820        | 840        | 33.6     | 1.2          | 57.5         | 7.9           | 2.4       | --          | --       | <10.0      | --             |
| MW-3                                                                           | 11/29/2011 | (NP)  | 266.00 | 24.19 | 0.0  | 241.81 | 3,130            | <76        | <380       | 30.4     | <1.0         | 21.0         | 6.9           | --        | --          | --       | <10.0      | --             |
| MW-4                                                                           | 5/11/1993  |       | 100.26 | 23.03 | --   | 77.23  | 31,000           | --         | --         | 8,700    | 4,000        | 57           | 3,200         | --        | --          | --       | --         | --             |
| MW-4                                                                           | 3/4/1994   |       | 100.26 | 26.83 | 4.00 | 76.63  | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |



**Table 1**  
**Groundwater Gauging Data and Select Analytical Results**  
**WA-11060**

**4580 Fauntleroy Way Sw, Seattle, WA 98126**

*All analytical results are presented in micrograms per liter (µg/L)*

| Well                                                                           | Date       | Notes | TOC    | DTW   | NAPL | GWE    | GRO              | DRO        | HO         | Benzene  | Toluene      | Ethylbenzene | Total Xylenes | MTBE      | EDB         | EDC      | Total Lead | Dissolved Lead |
|--------------------------------------------------------------------------------|------------|-------|--------|-------|------|--------|------------------|------------|------------|----------|--------------|--------------|---------------|-----------|-------------|----------|------------|----------------|
| <b>Model Toxics Control Act (MTCOA) Method A Cleanup Levels (CULs) in µg/L</b> |            |       |        |       |      |        | <b>800/1,000</b> | <b>500</b> | <b>500</b> | <b>5</b> | <b>1,000</b> | <b>700</b>   | <b>1,000</b>  | <b>20</b> | <b>0.01</b> | <b>5</b> | <b>15</b>  | <b>--</b>      |
| MW-4                                                                           | 7/6/1994   |       | 100.26 | 25.63 | 1.43 | 75.77  | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-4                                                                           | 10/7/1994  |       | 100.26 | 26.07 | 1.63 | 75.49  | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-4                                                                           | 12/28/1994 |       | 100.26 | 25.85 | 1.43 | 75.55  | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-4                                                                           | 3/13/1995  |       | 100.26 | 25.59 | 1.88 | 76.17  | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-4                                                                           | 6/30/1995  |       | 100.26 | 24.64 | 1.11 | 76.51  | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-4                                                                           | 9/6/1995   |       | 100.26 | 24.78 | 1.05 | 76.32  | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-4                                                                           | 12/8/1995  |       | 100.26 | 24.94 | 1.05 | 76.16  | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-4                                                                           | 3/11/1996  |       | 100.26 | 24.68 | 2.38 | 77.48  | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-4                                                                           | 6/18/1996  |       | 100.26 | 24.04 | 2.11 | 77.91  | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-4                                                                           | 9/9/1996   |       | 100.26 | 24.08 | 1.85 | 77.66  | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-4                                                                           | 12/11/1996 |       | 100.26 | 23.07 | 0.38 | 77.49  | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-4                                                                           | 3/17/1999  |       | 100.26 | --    | --   | --     | 100,000          | --         | --         | 12,000   | 17,000       | 1,800        | 10,000        | <50       | --          | --       | --         | --             |
| MW-4                                                                           | 9/28/1999  |       | 100.26 | --    | --   | --     | 97,000           | --         | --         | 27,000   | 65,000       | 18,000       | 100,000       | <1,000    | --          | --       | --         | --             |
| MW-4                                                                           | 1/19/2000  |       | 100.26 | --    | --   | --     | 100,000          | --         | --         | 22,000   | 18,000       | 2,400        | 15,000        | <5        | --          | --       | --         | --             |
| MW-4                                                                           | 3/24/2000  |       | 100.26 | --    | --   | --     | 100,000          | --         | --         | 13,000   | 18,000       | 2,200        | 13,000        | <5        | --          | --       | --         | --             |
| MW-4                                                                           | 7/2/2000   |       | 100.26 | --    | --   | --     | 92,000           | --         | --         | 13,000   | 17,000       | 1,800        | 10,000        | 220       | --          | --       | --         | --             |
| MW-4                                                                           | 9/14/2000  | (Dup) | 100.26 | --    | --   | --     | 160,000          | --         | --         | 16,000   | 22,000       | <500         | 7,800         | <2,000    | --          | --       | --         | --             |
| MW-4                                                                           | 9/14/2000  |       | 100.26 | --    | --   | --     | 160,000          | --         | --         | 22,000   | 27,000       | 6,900        | 23,000        | <5        | --          | --       | --         | --             |
| MW-4                                                                           | 9/22/2001  |       | 100.26 | 26.60 | 3.27 | 76.28  | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-4                                                                           | 12/9/2001  |       | 100.26 | 25.50 | 2.37 | 76.66  | 110,000          | --         | --         | 12,000   | 10,000       | 1,900        | 8,800         | <40       | --          | --       | --         | --             |
| MW-4                                                                           | 3/20/2002  |       | 100.26 | 26.50 | 3.73 | 76.74  | 100,000          | --         | --         | 13,000   | 19,000       | 2,500        | 13,000        | 360       | --          | --       | --         | --             |
| MW-4                                                                           | 6/11/2002  |       | 100.26 | 24.25 | 1.10 | 76.89  | 95,000           | --         | --         | 13,000   | 17,000       | 2,300        | 12,000        | <400      | --          | --       | --         | --             |
| MW-4                                                                           | 12/21/2002 | (NS)  | 100.26 | --    | --   | --     | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-4                                                                           | 3/19/2003  | (NS)  | 100.26 | --    | --   | --     | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-4                                                                           | 6/18/2003  | (NS)  | 100.26 | --    | --   | --     | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-4                                                                           | 9/23/2003  |       | 100.26 | 22.31 | 0.07 | 78.01  | 75,900           | --         | --         | 7,140    | 8,980        | 1,270        | 8,820         | <50.0     | --          | --       | --         | --             |
| MW-4                                                                           | 10/21/2003 |       | 100.26 | 21.79 | --   | 78.47  | 44,700           | --         | --         | 3,190    | 6,370        | 779          | 6,160         | <500      | --          | --       | --         | --             |
| MW-4                                                                           | 6/29/2004  | (NP)  | 267.78 | 22.88 | 0.0  | 244.90 | 378,000          | --         | --         | 11,200   | 16,300       | 3,550        | 22,600        | 2,500     | --          | --       | --         | --             |
| MW-4                                                                           | 11/15/2004 | (NS)  | 100.26 | 23.07 | 1.45 | 78.35  | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-4                                                                           | 4/14/2005  | (NS)  | 100.26 | 23.82 | 1.89 | 77.95  | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-4                                                                           | 12/18/2005 | (NP)  | 100.26 | 23.43 | 0.08 | 76.89  | 214,000          | --         | --         | 9,430    | 12,800       | 2,000        | 13,500        | <100      | --          | --       | --         | --             |
| MW-4                                                                           | 6/11/2006  | (NP)  | 100.26 | 21.87 | 0.01 | 78.40  | 117,000          | --         | --         | 13,000   | 18,200       | 2,300        | 14,000        | <1,000    | --          | --       | --         | --             |
| MW-4                                                                           | 11/5/2006  | (NP)  | 100.26 | 22.92 | 0.01 | 77.35  | 120,000          | --         | --         | 6,950    | 10,500       | 2,070        | 13,500        | --        | --          | --       | --         | --             |
| MW-4                                                                           | 9/25/2007  | (NS)  | 100.26 | 22.15 | 0.02 | 78.13  | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-4                                                                           | 12/31/2007 | (NS)  | 100.26 | --    | --   | --     | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-4                                                                           | 5/29/2008  | (NM)  | 267.78 | --    | --   | --     | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-4                                                                           | 10/28/2008 | (DRY) | 100.26 | --    | --   | --     | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-4                                                                           | 6/22/2009  | (NS)  | 100.26 | 24.21 | 0.04 | 76.08  | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-4                                                                           | 12/15/2009 | (NS)  | 100.26 | 24.04 | 0.28 | 76.44  | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-4                                                                           | 5/24/2010  | (NM)  | 267.78 | --    | --   | --     | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-4                                                                           | 5/10/2011  | (NM)  | 267.78 | --    | --   | --     | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-4                                                                           | 11/29/2011 | (NM)  | 267.78 | --    | --   | --     | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |
|                                                                                |            |       |        |       |      |        |                  |            |            |          |              |              |               |           |             |          |            |                |
| MW-5                                                                           | 5/11/1993  |       | 100.88 | 22.97 | --   | 77.91  | 1,800            | --         | --         | 130      | 25           | 23           | 22            | --        | --          | --       | --         | --             |
| MW-5                                                                           | 3/4/1994   |       | 100.88 | 24.35 | --   | 76.53  | 710              | 420        | --         | 26       | 6            | 11           | 8             | --        | --          | --       | 27         | <3             |
| MW-5                                                                           | 7/6/1994   |       | 100.88 | 24.72 | --   | 76.16  | 400              | <250       | --         | 11       | 3            | 1            | 4             | --        | --          | --       | --         | --             |
| MW-5                                                                           | 10/7/1994  |       | 100.88 | 25.02 | --   | 75.86  | 510              | --         | --         | 13       | 4            | 2            | 4             | --        | --          | --       | --         | --             |
| MW-5                                                                           | 12/28/1994 |       | 100.88 | 24.98 | --   | 75.90  | 1,300            | --         | --         | 46       | 13           | 20           | 22            | --        | --          | --       | --         | --             |
| MW-5                                                                           | 3/13/1995  |       | 100.88 | 24.41 | --   | 76.47  | 2,800            | --         | --         | 34       | 8            | 40           | 28            | --        | --          | --       | --         | --             |
| MW-5                                                                           | 6/30/1995  |       | 100.88 | 24.06 | --   | 76.82  | 1,100            | --         | --         | 50       | 11           | 12           | 15            | --        | --          | --       | --         | --             |
| MW-5                                                                           | 9/6/1995   |       | 100.88 | 24.27 | --   | 76.61  | 1,100            | --         | --         | 42       | 14           | 30           | 18            | --        | --          | --       | --         | --             |
| MW-5                                                                           | 12/8/1995  |       | 100.88 | 24.49 | --   | 76.39  | 1,700            | --         | --         | 32       | 7            | 42           | 62            | --        | --          | --       | --         | --             |
| MW-5                                                                           | 3/11/1996  |       | 100.88 | 23.33 | --   | 77.55  | 8,100            | --         | --         | 85       | 9            | 210          | 140           | --        | --          | --       | --         | --             |
| MW-5                                                                           | 6/18/1996  |       | 100.88 | 22.91 | --   | 77.97  | 2,700            | --         | --         | 100      | 17           | 88           | 25            | --        | --          | --       | --         | --             |
| MW-5                                                                           | 9/9/1996   |       | 100.88 | 23.07 | --   | 77.81  | 2,200            | --         | --         | 180      | 29           | 100          | 27            | <1.0      | --          | --       | --         | --             |
| MW-5                                                                           | 12/11/1996 |       | 100.88 | 23.13 | --   | 77.75  | 4,900            | --         | --         | 110      | 18           | 96           | 250           | 12        | --          | --       | --         | --             |
| MW-5                                                                           | 3/13/1997  |       | 100.88 | 22.28 | --   | 78.60  | 5,500            | --         | --         | 190      | 35           | 190          | 73            | <50       | --          | --       | --         | --             |

**Table 1**  
**Groundwater Gauging Data and Select Analytical Results**  
**WA-11060**

4580 Fauntleroy Way Sw, Seattle, WA 98126

All analytical results are presented in micrograms per liter (µg/L)

| Well                                                                    | Date       | Notes     | TOC    | DTW   | NAPL | GWE    | GRO       | DRO | HO   | Benzene | Toluene | Ethylbenzene | Total Xylenes | MTBE  | EDB  | EDC | Total Lead | Dissolved Lead |
|-------------------------------------------------------------------------|------------|-----------|--------|-------|------|--------|-----------|-----|------|---------|---------|--------------|---------------|-------|------|-----|------------|----------------|
| Model Toxics Control Act (MTCOA) Method A Cleanup Levels (CULs) in µg/L |            |           |        |       |      |        | 800/1,000 | 500 | 500  | 5       | 1,000   | 700          | 1,000         | 20    | 0.01 | 5   | 15         | --             |
| MW-5                                                                    | 6/5/1997   |           | 100.88 | 21.78 | --   | 79.10  | 4,100     | --  | --   | 290     | 42      | 200          | 37            | <100  | --   | --  | --         | --             |
| MW-5                                                                    | 9/5/1997   |           | 100.88 | 21.92 | --   | 78.96  | 3,100     | --  | --   | 420     | 83      | 190          | 730           | <50   | --   | --  | --         | --             |
| MW-5                                                                    | 4/2/1998   |           | 100.88 | 21.35 | --   | 79.53  | 5,400     | --  | --   | 470     | 89      | 340          | 83            | <50   | --   | --  | --         | --             |
| MW-5                                                                    | 6/8/1998   |           | 100.88 | 21.48 | --   | 79.40  | 4,200     | --  | --   | 360     | 110     | 220          | 66            | 71    | --   | --  | --         | --             |
| MW-5                                                                    | 9/17/1998  |           | 100.88 | 22.12 | --   | 78.76  | --        | --  | --   | --      | --      | --           | --            | --    | --   | --  | --         | --             |
| MW-5                                                                    | 12/9/1998  |           | 100.88 | 22.33 | --   | 78.55  | 4,900     | --  | --   | 170     | 41      | 120          | 120           | <1.0  | --   | --  | --         | --             |
| MW-5                                                                    | 3/17/1999  |           | 100.88 | 20.93 | --   | 79.95  | --        | --  | --   | --      | --      | --           | --            | --    | --   | --  | --         | --             |
| MW-5                                                                    | 6/26/1999  |           | 100.88 | 21.02 | --   | 79.86  | 3,300     | --  | --   | 180     | 82      | 210          | 24            | 8     | --   | --  | --         | --             |
| MW-5                                                                    | 9/28/1999  |           | 100.88 | 21.76 | --   | 79.12  | --        | --  | --   | --      | --      | --           | --            | --    | --   | --  | --         | --             |
| MW-5                                                                    | 1/19/2000  |           | 100.88 | 21.65 | --   | 79.23  | 6,500     | --  | --   | 480     | 350     | 370          | 87            | <0.5  | --   | --  | --         | --             |
| MW-5                                                                    | 3/24/2000  |           | 100.88 | 21.48 | --   | 79.40  | --        | --  | --   | --      | --      | --           | --            | --    | --   | --  | --         | --             |
| MW-5                                                                    | 7/2/2000   |           | 100.88 | 22.01 | --   | 78.87  | 6,100     | --  | --   | 390     | 110     | 290          | 54            | 20    | --   | --  | --         | --             |
| MW-5                                                                    | 9/14/2000  |           | 100.88 | 22.59 | --   | 78.29  | --        | --  | --   | --      | --      | --           | --            | --    | --   | --  | --         | --             |
| MW-5                                                                    | 12/14/2000 |           | 100.88 | 22.95 | --   | 77.93  | 4,000     | --  | --   | 26      | <10     | <10          | <30           | <40   | --   | --  | --         | --             |
| MW-5                                                                    | 9/22/2001  |           | 100.88 | 23.86 | --   | 77.02  | --        | --  | --   | --      | --      | --           | --            | --    | --   | --  | --         | --             |
| MW-5                                                                    | 12/9/2001  |           | 100.88 | 23.90 | --   | 76.98  | 12,000    | --  | --   | 51      | <10     | 120          | 140           | <10   | --   | --  | --         | --             |
| MW-5                                                                    | 3/20/2002  |           | 100.88 | 23.13 | --   | 77.75  | --        | --  | --   | --      | --      | --           | --            | --    | --   | --  | --         | --             |
| MW-5                                                                    | 6/11/2002  |           | 100.88 | 23.09 | --   | 77.79  | 5,700     | --  | --   | 94      | 21      | 110          | 24            | <20   | --   | --  | --         | --             |
| MW-5                                                                    | 12/21/2002 |           | 100.88 | 24.65 | --   | 76.23  | 1,300     | --  | --   | 6.32    | 2.95    | 6.59         | 11.1          | 5.88  | --   | --  | --         | --             |
| MW-5                                                                    | 3/19/2003  |           | 100.88 | 24.68 | --   | 76.20  | --        | --  | --   | --      | --      | --           | --            | --    | --   | --  | --         | --             |
| MW-5                                                                    | 6/18/2003  |           | 100.88 | 24.37 | --   | 76.51  | 1,950     | --  | --   | 7.18    | 1.95    | 12           | 24.7          | 6     | --   | --  | --         | --             |
| MW-5                                                                    | 9/23/2003  |           | 100.88 | 24.88 | --   | 76.00  | --        | --  | --   | --      | --      | --           | --            | --    | --   | --  | --         | --             |
| MW-5                                                                    | 10/21/2003 |           | 100.88 | 24.99 | --   | 75.89  | 322       | --  | --   | 1.18    | 2.19    | 0.732        | 3.38          | <1.00 | --   | --  | --         | --             |
| MW-5                                                                    | 6/29/2004  | (NP)      | 100.88 | 24.22 | --   | 76.66  | 1,180     | --  | --   | 5.4     | 3.24    | 4.79         | 14.1          | 6.95  | --   | --  | --         | --             |
| MW-5                                                                    | 11/15/2004 | (NP)      | 100.88 | 24.97 | --   | 75.91  | 399       | --  | --   | 0.74    | <0.500  | <0.500       | <1.00         | <2.00 | --   | --  | --         | --             |
| MW-5                                                                    | 4/14/2005  | (NP)      | 100.88 | 25.08 | --   | 75.80  | 2,900     | --  | --   | 14.3    | 13.4    | 33.9         | 40            | <2.00 | --   | --  | --         | --             |
| MW-5                                                                    | 12/18/2005 | (NP)      | 100.88 | 25.47 | --   | 75.41  | 661       | --  | --   | 2.49    | 2.43    | 3.58         | 5.11          | <1.00 | --   | --  | --         | --             |
| MW-5                                                                    | 6/11/2006  | (NP)      | 100.88 | 24.43 | --   | 76.45  | 2,830     | --  | --   | 6.08    | 1.05    | 2.78         | 3.1           | <1.00 | --   | --  | --         | --             |
| MW-5                                                                    | 11/5/2006  | (NP)      | 100.88 | 25.55 | --   | 75.33  | 723       | --  | --   | 1.41    | 0.78    | 1.29         | <3.00         | --    | --   | --  | --         | --             |
| MW-5                                                                    | 9/25/2007  | (NP)      | 100.88 | 24.95 | --   | 75.93  | 712       | --  | --   | 1.86    | 0.53    | 0.77         | <3.00         | --    | --   | --  | --         | --             |
| MW-5                                                                    | 12/31/2007 | (NP)      | 100.88 | 25.16 | --   | 75.72  | 7,190     | --  | --   | 9.4     | 11.3    | 38.1         | 75.7          | --    | --   | --  | --         | --             |
| MW-5                                                                    | 5/29/2008  | (NP)      | 100.88 | 25.01 | --   | 75.87  | 2,740     | --  | --   | 7.47    | 9.12    | 15.7         | 23.7          | --    | --   | --  | --         | --             |
| MW-5                                                                    | 10/28/2008 | (NP)      | 100.88 | 25.89 | --   | 74.99  | 516       | --  | --   | 2.01    | 1.46    | <0.500       | 3.48          | --    | --   | --  | --         | --             |
| MW-5                                                                    | 6/22/2009  | (NP)      | 100.88 | 26.95 | --   | 73.93  | 4,800     | --  | --   | 36      | 24      | 87           | 49.9          | --    | --   | --  | 23         | --             |
| MW-5                                                                    | 12/15/2009 | (NP)      | 100.88 | 26.57 | --   | 74.31  | 2,300     | --  | --   | 24      | 19      | 29           | 23            | --    | --   | --  | 12         | 11             |
| MW-5                                                                    | 5/24/2010  | (NP)      | 100.88 | 25.55 | --   | 75.33  | 4,200     | --  | --   | 59      | 8.4     | 96           | 41            | --    | --   | --  | --         | --             |
| MW-5                                                                    | 10/12/2010 | (NP)      | 268.46 | 25.74 | 0.0  | 242.72 | 2,320     | --  | --   | 31.4    | 2.6     | 12.7         | 4.8           | <1.0  | --   | --  | <10.0      | --             |
| MW-5                                                                    | 10/12/2010 | (Dup)(NP) | 268.46 | 25.74 | 0.0  | 242.72 | 2,260     | --  | --   | 31.6    | 2.6     | 12.6         | 4.8           | <1.0  | --   | --  | --         | --             |
| MW-5                                                                    | 5/10/2011  | (NP)      | 268.46 | 24.61 | 0.0  | 243.85 | 4,710     | 470 | <400 | 12.4    | 4.1     | 39.3         | 25.5          | <1.0  | --   | --  | <10.0      | --             |
| MW-5                                                                    | 11/29/2011 | (NP)      | 268.46 | 25.55 | 0.0  | 242.91 | 2,210     | 95  | <380 | 12.3    | 2.2     | 6.4          | 3.1           | --    | --   | --  | 10.5       | --             |
|                                                                         |            |           |        |       |      |        |           |     |      |         |         |              |               |       |      |     |            |                |
| MW-6                                                                    | 9/5/1997   |           | 98.62  | 21.20 | --   | 77.42  | 930       | --  | --   | <0.5    | 19      | 6            | 15            | 32    | --   | --  | --         | --             |
| MW-6                                                                    | 4/2/1998   |           | 98.62  | 19.70 | --   | 78.92  | 600       | --  | --   | <0.5    | 10      | 3            | 11            | 6     | --   | --  | --         | --             |
| MW-6                                                                    | 6/8/1998   |           | 98.62  | 20.58 | --   | 78.04  | 430       | --  | --   | <0.5    | 6       | 2            | 5             | 10    | --   | --  | --         | --             |
| MW-6                                                                    | 9/17/1998  |           | 98.62  | 21.87 | --   | 76.75  | --        | --  | --   | --      | --      | --           | --            | --    | --   | --  | --         | --             |
| MW-6                                                                    | 12/9/1998  |           | 98.62  | 21.20 | --   | 77.42  | 260       | --  | --   | <1.0    | <1.0    | 1            | 3             | 2     | --   | --  | --         | --             |
| MW-6                                                                    | 3/17/1999  |           | 98.62  | 18.49 | --   | 80.13  | --        | --  | --   | --      | --      | --           | --            | --    | --   | --  | --         | --             |
| MW-6                                                                    | 6/26/1999  |           | 98.62  | 18.49 | --   | 80.13  | --        | --  | --   | --      | --      | --           | --            | --    | --   | --  | --         | --             |
| MW-6                                                                    | 9/28/1999  |           | 98.62  | 21.40 | --   | 77.22  | --        | --  | --   | --      | --      | --           | --            | --    | --   | --  | --         | --             |
| MW-6                                                                    | 1/19/2000  |           | 98.62  | 20.39 | --   | 78.23  | 330       | --  | --   | <0.5    | <0.5    | 6            | 10            | 7     | --   | --  | --         | --             |
| MW-6                                                                    | 3/24/2000  |           | 98.62  | 19.63 | --   | 78.99  | --        | --  | --   | --      | --      | --           | --            | --    | --   | --  | --         | --             |
| MW-6                                                                    | 9/14/2000  |           | 98.62  | 21.92 | --   | 76.70  | --        | --  | --   | --      | --      | --           | --            | --    | --   | --  | --         | --             |
| MW-6                                                                    | 12/14/2000 |           | 98.62  | 22.51 | --   | 76.11  | 1,000     | --  | --   | <10     | <10     | <10          | <30           | <40   | --   | --  | --         | --             |
| MW-6                                                                    | 9/22/2001  |           | 98.62  | 23.31 | --   | 75.31  | --        | --  | --   | --      | --      | --           | --            | --    | --   | --  | --         | --             |
| MW-6                                                                    | 12/9/2001  |           | 98.62  | 22.24 | --   | 76.38  | --        | --  | --   | --      | --      | --           | --            | --    | --   | --  | --         | --             |
| MW-6                                                                    | 3/20/2002  |           | 98.62  | 21.44 | --   | 77.18  | --        | --  | --   | --      | --      | --           | --            | --    | --   | --  | --         | --             |
| MW-6                                                                    | 6/11/2002  |           | 98.62  | 21.90 | --   | 76.72  | --        | --  | --   | --      | --      | --           | --            | --    | --   | --  | --         | --             |

**Table 1**  
**Groundwater Gauging Data and Select Analytical Results**  
**WA-11060**

**4580 Fauntleroy Way Sw, Seattle, WA 98126**

*All analytical results are presented in micrograms per liter (µg/L)*

| Well                                                                          | Date       | Notes       | TOC    | DTW   | NAPL | GWE    | GRO              | DRO        | HO         | Benzene      | Toluene      | Ethylbenzene | Total Xylenes | MTBE      | EDB         | EDC      | Total Lead | Dissolved Lead |
|-------------------------------------------------------------------------------|------------|-------------|--------|-------|------|--------|------------------|------------|------------|--------------|--------------|--------------|---------------|-----------|-------------|----------|------------|----------------|
| <b>Model Toxics Control Act (MTCA) Method A Cleanup Levels (CULs) in µg/L</b> |            |             |        |       |      |        | <b>800/1,000</b> | <b>500</b> | <b>500</b> | <b>5</b>     | <b>1,000</b> | <b>700</b>   | <b>1,000</b>  | <b>20</b> | <b>0.01</b> | <b>5</b> | <b>15</b>  | <b>--</b>      |
| MW-6                                                                          | 12/21/2002 | (NS)        | 98.62  | --    | --   | --     | --               | --         | --         | --           | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-6                                                                          | 3/19/2003  | (NS)        | 98.62  | --    | --   | --     | --               | --         | --         | --           | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-6                                                                          | 6/18/2003  | (NS)        | 98.62  | --    | --   | --     | --               | --         | --         | --           | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-6                                                                          | 9/23/2003  | (NS)        | 98.62  | --    | --   | --     | --               | --         | --         | --           | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-6                                                                          | 10/21/2003 | (P)         | 98.62  | 22.69 | --   | 75.93  | 254              | --         | --         | <b>10</b>    | 3.66         | 0.898        | 5.03          | <1.00     | --          | --       | --         | --             |
| MW-6                                                                          | 6/29/2004  | (NP)        | 98.62  | 22.88 | --   | 75.74  | 540              | --         | --         | <b>6.8</b>   | 1.73         | <0.500       | 5.65          | 6.35      | --          | --       | --         | --             |
| MW-6                                                                          | 11/15/2004 | (NP)        | 98.62  | 24.12 | --   | 74.50  | 370              | --         | --         | <b>43.5</b>  | 14.5         | 0.58         | 10.4          | <2.00     | --          | --       | --         | --             |
| MW-6                                                                          | 4/14/2005  | (NP)        | 98.62  | 23.75 | --   | 74.87  | 443              | --         | --         | <b>6.39</b>  | 0.95         | <0.500       | 3.75          | <2.00     | --          | --       | --         | --             |
| MW-6                                                                          | 12/18/2005 | (NP)        | 98.62  | 24.79 | --   | 73.83  | 694              | --         | --         | <0.500       | <0.500       | <0.500       | 3.01          | <1.00     | --          | --       | --         | --             |
| MW-6                                                                          | 6/11/2006  | (NP)        | 98.62  | 23.09 | --   | 75.53  | 601              | --         | --         | <0.500       | <0.500       | <0.500       | <3.00         | <1.00     | --          | --       | --         | --             |
| MW-6                                                                          | 11/5/2006  | (NP)        | 98.62  | 25.80 | --   | 72.82  | 444              | --         | --         | <0.500       | <0.500       | <0.500       | <3.00         | --        | --          | --       | --         | --             |
| MW-6                                                                          | 9/25/2007  | (NP)        | 98.62  | 24.13 | --   | 74.49  | 321              | --         | --         | <0.500       | <0.500       | <0.500       | <3.00         | --        | --          | --       | --         | --             |
| MW-6                                                                          | 12/31/2007 | (NP)        | 98.62  | 23.59 | --   | 75.03  | 168              | --         | --         | <0.500       | <0.500       | <0.500       | <3.00         | --        | --          | --       | --         | --             |
| MW-6                                                                          | 5/29/2008  | (NP)        | 98.62  | 24.21 | --   | 74.41  | <b>1,620</b>     | --         | --         | <0.500       | <0.500       | <0.500       | <3.00         | --        | --          | --       | --         | --             |
| MW-6                                                                          | 10/28/2008 | (NP)        | 98.62  | 25.47 | --   | 73.15  | 481              | --         | --         | <0.500       | <0.500       | <0.500       | <3.00         | --        | --          | --       | --         | --             |
| MW-6                                                                          | 6/22/2009  | (NP)        | 98.62  | 25.32 | --   | 73.30  | <50.0            | --         | --         | <1.00        | <1.00        | <1.00        | <3.00         | --        | --          | --       | <2.00      | <2.00          |
| MW-6                                                                          | 12/15/2009 | (NP)        | 98.62  | 23.33 | --   | 75.29  | 190              | --         | --         | <1.00        | <1.00        | <1.00        | <2.00         | --        | --          | --       | <2.00      | <2.00          |
| MW-6                                                                          | 3/24/2010  | (NS)        | 266.06 | 22.12 | 0.0  | 243.94 | --               | --         | --         | --           | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-6                                                                          | 5/24/2010  | (NP)        | 98.62  | 22.90 | --   | 75.72  | 280              | --         | --         | <b>8.1</b>   | <2.5         | <2.5         | <5.0          | --        | --          | --       | --         | --             |
| MW-6                                                                          | 10/12/2010 | (NP)        | 266.06 | 23.06 | 0.0  | 243.00 | <50.0            | --         | --         | <1.0         | <1.0         | <1.0         | <3.0          | <1.0      | --          | --       | <10.0      | --             |
| MW-6                                                                          | 5/10/2011  | (NP)        | 266.06 | 22.01 | 0.0  | 244.05 | 96.0             | 180        | <390       | <1.0         | <1.0         | <1.0         | <3.0          | <1.0      | --          | --       | <10.0      | --             |
| MW-6                                                                          | 11/29/2011 | (NP)        | 266.06 | 23.42 | 0.0  | 242.64 | <50.0            | <78        | <390       | <1.0         | <1.0         | <1.0         | <3.0          | --        | --          | --       | <10.0      | --             |
| MW-6                                                                          | 11/29/2011 | (Dup)(NP)   | 266.06 | 23.42 | 0.0  | 242.64 | <50.0            | <77        | <380       | <1.0         | <1.0         | <1.0         | <3.0          | --        | --          | --       | <10.0      | --             |
|                                                                               |            |             |        |       |      |        |                  |            |            |              |              |              |               |           |             |          |            |                |
| MW-7                                                                          | 4/2/1998   |             | 97.32  | 18.79 | --   | 78.53  | <b>13,100</b>    | --         | --         | <5           | 35           | 480          | <b>1,100</b>  | <50       | --          | --       | --         | --             |
| MW-7                                                                          | 6/8/1998   |             | 97.32  | 19.60 | --   | 77.72  | <b>12,000</b>    | --         | --         | <5.0         | 40           | 420          | 810           | <b>63</b> | --          | --       | --         | --             |
| MW-7                                                                          | 9/17/1998  |             | 97.32  | 20.82 | --   | 76.50  | --               | --         | --         | --           | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-7                                                                          | 12/9/1998  |             | 97.32  | 20.21 | --   | 77.11  | <b>9,600</b>     | --         | --         | <5.0         | 26           | 360          | 610           | 11        | --          | --       | --         | --             |
| MW-7                                                                          | 3/17/1999  |             | 97.32  | 17.61 | --   | 79.71  | --               | --         | --         | --           | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-7                                                                          | 6/26/1999  |             | 97.32  | 19.29 | --   | 78.03  | <b>8,300</b>     | --         | --         | <b>11</b>    | 24           | 410          | 600           | <5.0      | --          | --       | --         | --             |
| MW-7                                                                          | 12/14/2000 |             | 97.32  | --    | --   | --     | --               | --         | --         | --           | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-7                                                                          | 12/9/2001  |             | 97.32  | --    | --   | --     | --               | --         | --         | --           | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-7                                                                          | 3/20/2002  |             | 97.32  | --    | --   | --     | --               | --         | --         | --           | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-7                                                                          | 6/11/2002  |             | 97.32  | --    | --   | --     | --               | --         | --         | --           | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-7                                                                          | 6/18/2003  | (ABANDONED) | 97.32  | --    | --   | --     | --               | --         | --         | --           | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-7                                                                          | 3/24/2010  |             | 97.32  | 20.65 | --   | 76.67  | --               | --         | --         | --           | --           | --           | --            | --        | --          | --       | --         | --             |
|                                                                               |            |             |        |       |      |        |                  |            |            |              |              |              |               |           |             |          |            |                |
| MW-8                                                                          | 4/2/1998   |             | 98.49  | 19.99 | --   | 78.50  | <100             | --         | --         | <0.5         | 1            | <0.5         | <1.5          | <5        | --          | --       | --         | --             |
| MW-8                                                                          | 6/8/1998   |             | 98.49  | 20.39 | --   | 78.10  | <100             | --         | --         | <0.5         | 1            | 2            | <1.5          | <5.0      | --          | --       | --         | --             |
| MW-8                                                                          | 9/17/1998  |             | 98.49  | 21.21 | --   | 77.28  | --               | --         | --         | --           | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-8                                                                          | 12/9/1998  |             | 98.49  | 21.03 | --   | 77.46  | <500             | --         | --         | <5.0         | <5.0         | <5.0         | <5.0          | <5.0      | --          | --       | --         | --             |
| MW-8                                                                          | 3/17/1999  |             | 98.49  | 19.03 | --   | 79.46  | --               | --         | --         | --           | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-8                                                                          | 6/26/1999  |             | 98.49  | 20.02 | --   | 78.47  | <500             | --         | --         | <5.0         | <5.0         | <5.0         | <5.0          | <5.0      | --          | --       | --         | --             |
| MW-8                                                                          | 12/14/2000 |             | 98.49  | --    | --   | --     | --               | --         | --         | --           | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-8                                                                          | 12/9/2001  |             | 98.49  | --    | --   | --     | --               | --         | --         | --           | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-8                                                                          | 3/20/2002  |             | 98.49  | --    | --   | --     | --               | --         | --         | --           | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-8                                                                          | 6/11/2002  |             | 98.49  | --    | --   | --     | --               | --         | --         | --           | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-8                                                                          | 6/18/2003  | (ABANDONED) | 98.49  | --    | --   | --     | --               | --         | --         | --           | --           | --           | --            | --        | --          | --       | --         | --             |
| MW-8                                                                          | 3/24/2010  |             | 98.49  | 19.78 | --   | 78.71  | --               | --         | --         | --           | --           | --           | --            | --        | --          | --       | --         | --             |
|                                                                               |            |             |        |       |      |        |                  |            |            |              |              |              |               |           |             |          |            |                |
| MW-9                                                                          | 10/12/2010 | (NP)        | 263.35 | 23.89 | 0.0  | 239.46 | <50.0            | --         | --         | <1.0         | <1.0         | <1.0         | <3.0          | <1.0      | --          | --       | <10.0      | --             |
| MW-9                                                                          | 5/10/2011  | (NP)        | 263.35 | 20.70 | 0.0  | 242.65 | <50.0            | 160        | <420       | <1.0         | <1.0         | <1.0         | <3.0          | <1.0      | --          | --       | <10.0      | --             |
| MW-9                                                                          | 11/29/2011 | (NP)        | 263.35 | 22.64 | 0.0  | 240.71 | <50.0            | <76        | <380       | <1.0         | <1.0         | <1.0         | <3.0          | --        | --          | --       | <10.0      | --             |
|                                                                               |            |             |        |       |      |        |                  |            |            |              |              |              |               |           |             |          |            |                |
| VE-1                                                                          | 4/2/1998   |             | --     | --    | --   | --     | <b>60,500</b>    | --         | --         | <b>3,900</b> | <b>2,300</b> | <b>820</b>   | <b>4,500</b>  | <2,500    | --          | --       | --         | --             |
| VE-1                                                                          | 9/17/1998  |             | --     | --    | --   | --     | <b>240,000</b>   | --         | --         | <b>2,700</b> | <b>2,000</b> | <b>7,700</b> | <b>1,400</b>  | <100      | --          | --       | --         | --             |
| VE-1                                                                          | 12/9/1998  |             | --     | --    | --   | --     | <b>73,000</b>    | --         | --         | <b>2,200</b> | <b>1,400</b> | <b>770</b>   | <b>3,700</b>  | <25       | --          | --       | --         | --             |

**Table 1**  
**Groundwater Gauging Data and Select Analytical Results**  
**WA-11060**

**4580 Fauntleroy Way Sw, Seattle, WA 98126**

*All analytical results are presented in micrograms per liter (µg/L)*

| Well                                                                          | Date       | Notes     | TOC    | DTW   | NAPL | GWE    | GRO              | DRO        | HO         | Benzene  | Toluene      | Ethylbenzene | Total Xylenes | MTBE      | EDB         | EDC      | Total Lead | Dissolved Lead |
|-------------------------------------------------------------------------------|------------|-----------|--------|-------|------|--------|------------------|------------|------------|----------|--------------|--------------|---------------|-----------|-------------|----------|------------|----------------|
| <b>Model Toxics Control Act (MTCA) Method A Cleanup Levels (CULS) in µg/L</b> |            |           |        |       |      |        | <b>800/1,000</b> | <b>500</b> | <b>500</b> | <b>5</b> | <b>1,000</b> | <b>700</b>   | <b>1,000</b>  | <b>20</b> | <b>0.01</b> | <b>5</b> | <b>15</b>  | <b>--</b>      |
| VE-1                                                                          | 3/17/1999  |           | --     | --    | --   | --     | 42,000           | --         | --         | 4,000    | 2,400        | 790          | 4,100         | <25       | --          | --       | --         | --             |
| VE-1                                                                          | 6/26/1999  |           | --     | --    | --   | --     | 42,000           | --         | --         | 3,800    | 2,600        | 670          | 3,500         | <100      | --          | --       | --         | --             |
| VE-1                                                                          | 9/28/1999  |           | --     | --    | --   | --     | 25,000           | --         | --         | 3,400    | 2,000        | 630          | 3,000         | <25       | --          | --       | --         | --             |
| VE-1                                                                          | 3/24/2000  |           | --     | --    | --   | --     | 31,000           | --         | --         | 3,200    | 610          | 27           | 3,600         | <5        | --          | --       | --         | --             |
| VE-1                                                                          | 7/2/2000   |           | --     | --    | --   | --     | 27,000           | --         | --         | 3,200    | 1,900        | 620          | 3,000         | 130       | --          | --       | --         | --             |
| VE-1                                                                          | 9/14/2000  |           | --     | --    | --   | --     | 29,000           | --         | --         | 3,200    | 2,200        | 920          | 3,000         | <5        | --          | --       | --         | --             |
| VE-1                                                                          | 12/14/2000 |           | --     | 23.02 | --   | --     | 28,000           | --         | --         | 2,400    | 1,300        | 580          | 2,600         | <40       | --          | --       | --         | --             |
| VE-1                                                                          | 9/22/2001  |           | --     | 24.22 | --   | --     | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |
| VE-1                                                                          | 12/9/2001  |           | --     | 23.90 | 0.07 | --     | 24,000           | --         | --         | 1,300    | 880          | 510          | 2,400         | <40       | --          | --       | --         | --             |
| VE-1                                                                          | 3/20/2002  |           | --     | 23.30 | 0.05 | --     | 52,000           | --         | --         | 1,800    | 1,300        | 560          | 2,400         | 280       | --          | --       | --         | --             |
| VE-1                                                                          | 6/11/2002  |           | --     | 23.25 | 0.11 | --     | 26,000           | --         | --         | 2,800    | 1,600        | 650          | 2,900         | <80       | --          | --       | --         | --             |
| VE-1                                                                          | 12/21/2002 | (P)       | 268.17 | 24.89 | 0.0  | 243.28 | 25,900           | --         | --         | 1,630    | 1,150        | 741          | 3,660         | <200      | --          | --       | --         | --             |
| VE-1                                                                          | 3/19/2003  | (P)       | 268.17 | 24.71 | 0.0  | 243.46 | 27,100           | --         | --         | 1,590    | 1,450        | 743          | 3,640         | <250      | --          | --       | --         | --             |
| VE-1                                                                          | 6/18/2003  | (P)       | --     | 24.50 | 0.05 | --     | 37,000           | --         | --         | 2,190    | 1,710        | 929          | 5,230         | 79.8      | --          | --       | --         | --             |
| VE-1                                                                          | 9/23/2003  | (P)       | --     | 25.01 | 0.03 | --     | 28,300           | --         | --         | 1,620    | 1,270        | 704          | 3,500         | <20.0     | --          | --       | --         | --             |
| VE-1                                                                          | 10/22/2003 | (P)       | --     | 24.98 | 0.17 | --     | 36,700           | --         | --         | 3,360    | 1,850        | 847          | 4,130         | <50.0     | --          | --       | --         | --             |
| VE-1                                                                          | 6/29/2004  | (NP)      | 268.17 | 25.12 | 0.0  | 243.05 | 192,000          | --         | --         | 8,070    | 7,030        | 2,230        | 10,400        | 820       | --          | --       | --         | --             |
| VE-1                                                                          | 11/15/2004 | (NP)      | --     | 25.40 | 0.61 | --     | 99,900           | --         | --         | 5,680    | 6,280        | 3,430        | 17,600        | <100      | --          | --       | --         | --             |
| VE-1                                                                          | 4/14/2005  | (NP)      | --     | 26.15 | 1.31 | --     | 39,600           | --         | --         | 3,120    | 3,300        | 1,210        | 5,560         | <40.0     | --          | --       | --         | --             |
| VE-1                                                                          | 12/18/2005 | (NP)      | --     | 26.00 | 0.35 | --     | 142,000          | --         | --         | 6,140    | 5,850        | 1,400        | 6,750         | <100      | --          | --       | --         | --             |
| VE-1                                                                          | 6/11/2006  | (NP)      | --     | 26.53 | --   | --     | 68,300           | --         | --         | 7,200    | 8,100        | 3,900        | 25,100        | <500      | --          | --       | --         | --             |
| VE-1                                                                          | 11/5/2006  | (NP)      | --     | 26.33 | 0.45 | --     | 60,500           | --         | --         | 3,780    | 4,320        | 1,190        | 6,390         | --        | --          | --       | --         | --             |
| VE-1                                                                          | 9/25/2007  | (NS)      | --     | 25.02 | 0.14 | --     | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |
| VE-1                                                                          | 12/31/2007 | (NS)      | --     | --    | --   | --     | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |
| VE-1                                                                          | 5/29/2008  | (NS)      | --     | 25.63 | 0.84 | --     | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |
| VE-1                                                                          | 10/28/2008 | (NS)      | --     | 26.07 | 0.27 | --     | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |
| VE-1                                                                          | 6/22/2009  | (DRY, NE) | --     | --    | --   | --     | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |
| VE-1                                                                          | 12/15/2009 | (NS)      | --     | 26.56 | 0.06 | --     | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |
| VE-1                                                                          | 5/24/2010  | (NS)      | 268.17 | 26.70 | 0.0  | 241.47 | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |
| VE-1                                                                          | 5/10/2011  | (NM)      | 268.17 | --    | --   | --     | --               | --         | --         | --       | --           | --           | --            | --        | --          | --       | --         | --             |

msl = Mean sea level  
TOC = Top of casing  
GWE = Groundwater elevation above msl  
DTW = Depth to water below TOC  
ABD = Well abandoned  
All analytical results are in micrograms per liter (µg/L)  
TOC/DTW/LNAPL/GWE measurements are in feet (ft)  
ND = Not detected at or above the laboratory reporting limit  
-- = Not analyzed/not applicable  
NA = Not analyzed  
NM = Not measured  
NE = Top of casing not established  
DUP = Duplicate sample  
NS = Not Sampled  
NAPL = Non-Aqueous Phase Liquid Thickness  
GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics  
DRO = Total Petroleum Hydrocarbons - Diesel Range Organics  
HO = Total Petroleum Hydrocarbons - Heavy Oil Range Organics  
EDB = Ethylene Dibromide  
EDC = 1,2-Dichloroethane  
MTBE = Methyl Tertiary Butyl Ether  
BTEX = Benzene, Toluene, Ethylbenzene and Total Xylenes  
P = Purge sampling  
LFP = Low flow purge sampling  
NP = No purge sampling  
NG = Not Gauged  
GRO, DRO, HO methods by Ecology NW Methods; BTEX, MTBE and EDB by 8260B, lead by EPA 6000/7000 Series, EDC by EPA 8011  
Historic analysis by former consultant of BTEX, MTBE and EDB by EPA 8021B and confirmed with EPA 8260B if necessary  
Groundwater Elevation - If NAPL is present, the elevation is corrected according to the following formula, (TOC elevation - depth to water ) + (0.8 X NAPL Thickness)  
800/1,000 = GRO MTCA cleanup levels with benzene present (800) and without (1,000)  
Data collected prior to 2010 have been provided by previous consultants and are included as historical reference only

Table 1  
Groundwater Gauging Data and Select Analytical Results  
WA-11060

4580 Fauntleroy Way Sw, Seattle, WA 98126

All analytical results are presented in micrograms per liter (µg/L)

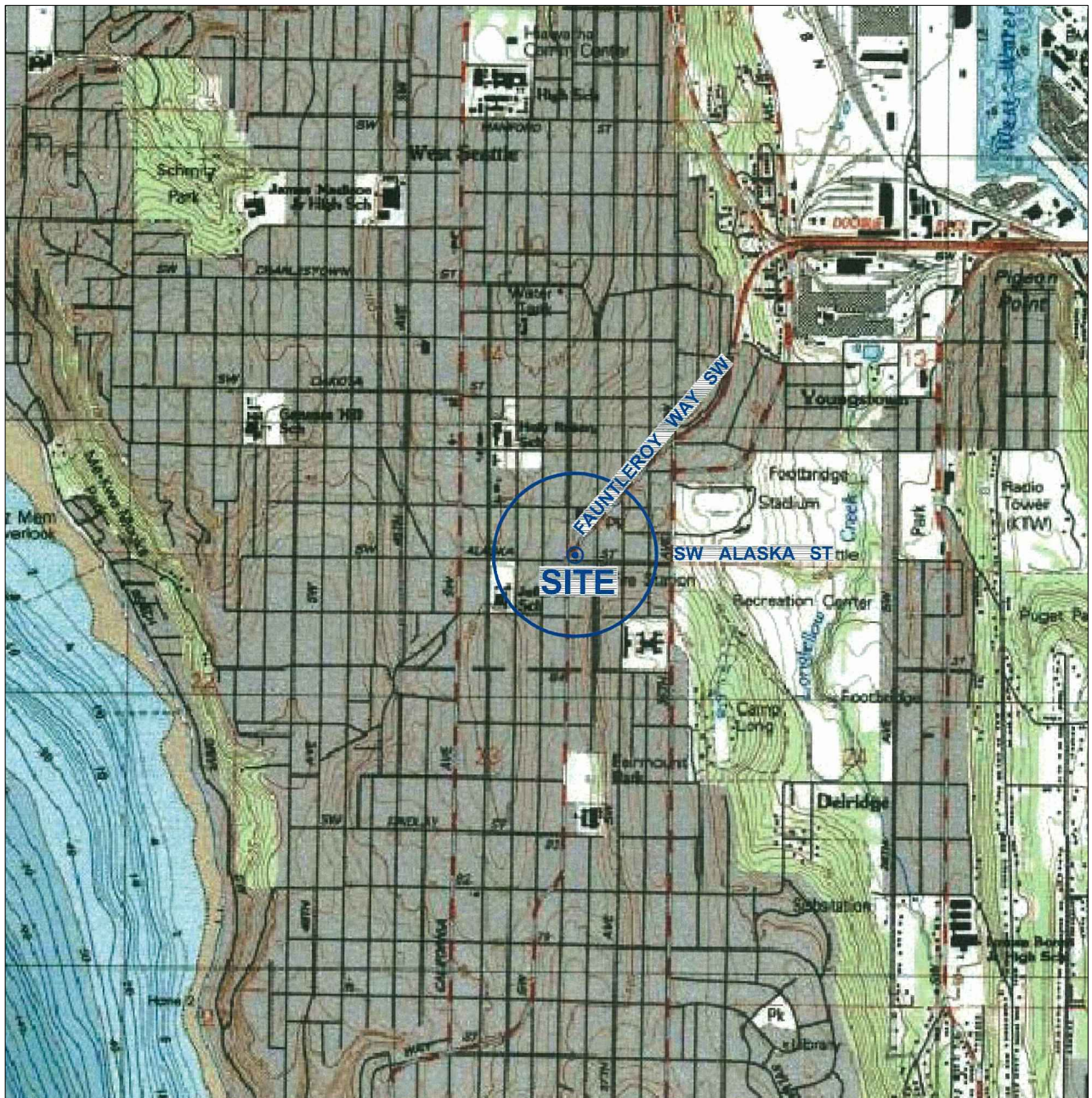
| Well                                                                   | Date | Notes | TOC | DTW | NAPL | GWE | GRO       | DRO | HO  | Benzene | Toluene | Ethylbenzene | Total Xylenes | MTBE | EDB  | EDC | Total Lead | Dissolved Lead |
|------------------------------------------------------------------------|------|-------|-----|-----|------|-----|-----------|-----|-----|---------|---------|--------------|---------------|------|------|-----|------------|----------------|
| Model Toxics Control Act (MTCA) Method A Cleanup Levels (CULs) in µg/L |      |       |     |     |      |     | 800/1,000 | 500 | 500 | 5       | 1,000   | 700          | 1,000         | 20   | 0.01 | 5   | 15         | --             |

Site resurveyed in 2010. TOC elevation in reference to vertical datum N.A.V.D. 88 and horizontal datum NAD 83/98

**BOLD** constituent detected above MTCA Cleanup Levels

ARCADIS

**Figures**



REFERENCE: BASE MAP USGS 7.5X15. MIN. TOPO. QUAD., SEATTLE SOUTH, WA, 1983.

0 2000' 4000'  
Approximate Scale: 1 in. = 2000 ft.



BP WEST COAST PRODUCTS LLC  
FORMER BP STATION NO. 11060  
4580 FAUNTLEROY WAY, SEATTLE, WASHINGTON  
**ANNUAL GROUNDWATER MONITORING REPORT 2011**

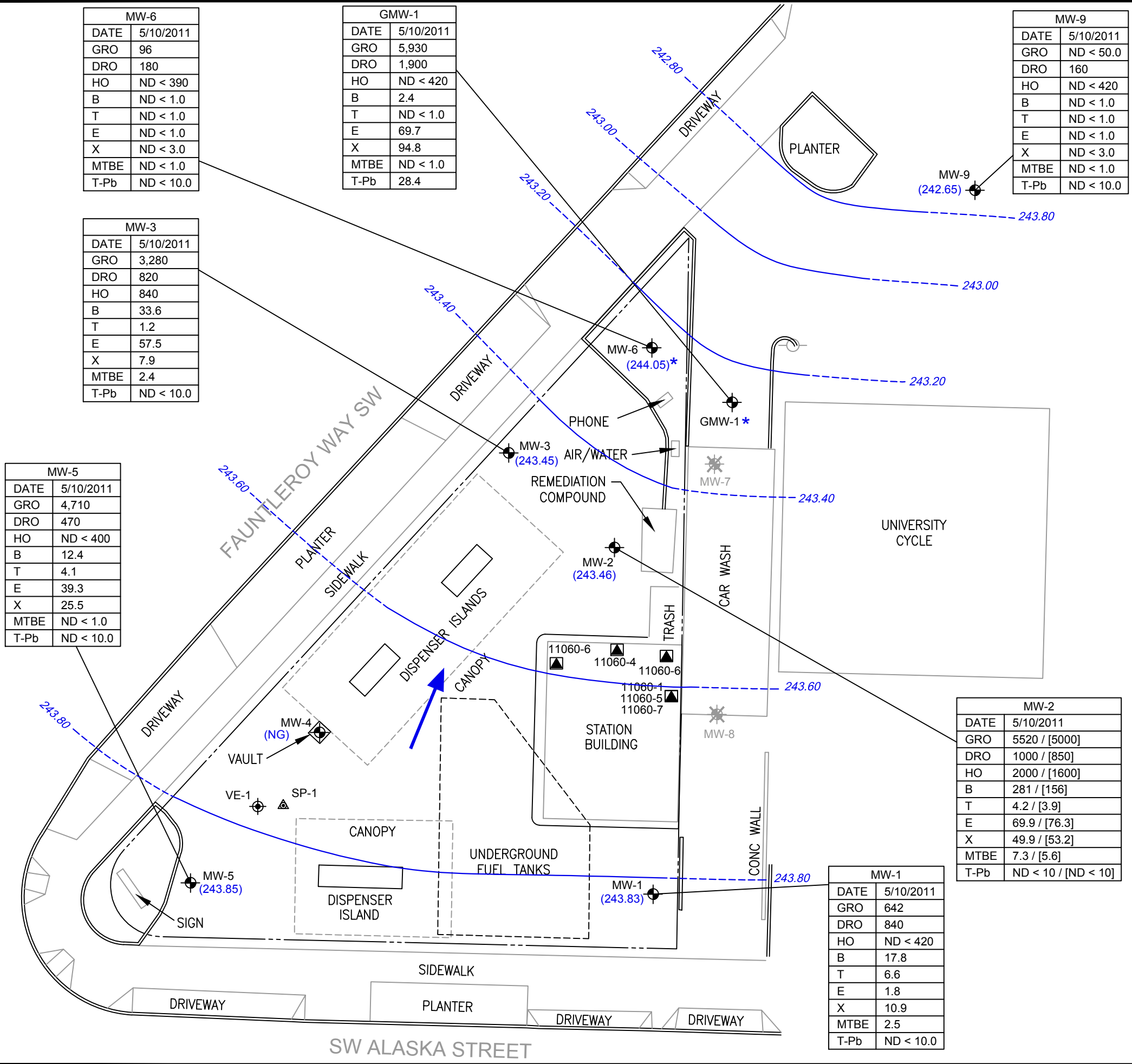
## SITE LOCATION MAP



FIGURE  
**1**



CITY:EMERYVILLE DIV:GROUP:EWV DB:(DCB) LD:(Opt) PIC:(Opt) PM:(Read) TM:(Opt) LVR:(Opt)N="OFF=REF" ACADVER: 18.15 (LMS TECH) PAGES: 2 LAYOUT: 2 G:\ENV\CAD\emeryville\ACT\G09BPNA\W448\0000\Annual\G09BPNA\W448 C02.DWG PLOTTED: 1/13/2012 10:54 AM BY: REYES, ALEC

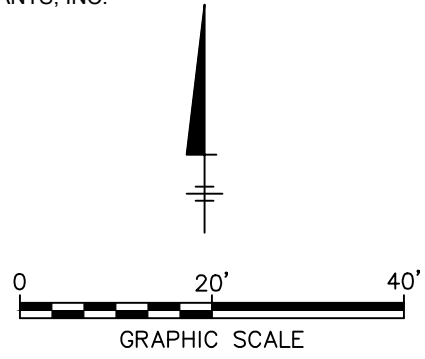


LEGEND

- APPROXIMATE PROPERTY LINE
- MW-2 MONITORING WELL LOCATION
- MW-7 ABANDONED MONITORING WELL LOCATION
- SP-1 AIR SPARGING WELL LOCATION
- VE-1 VAPOR EXTRACTION WELL LOCATION
- 11060-1 PASSIVE VAPOR MONITORING LOCATION
- (242.65) GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- GROUNDWATER ELEVATION CONTOUR, DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL)
- ND NOT DETECTED, VALUE SHOWN IS DETECTION LIMIT
- NG NOT GAUGED
- (µg/L) MICROGRAMS PER LITER
- \* WELLS NOT USED TO DEVELOP CONTOURS

| LOCATION ID |                                                         |
|-------------|---------------------------------------------------------|
| DATE        | DATE SAMPLE COLLECTED                                   |
| GRO         | GASOLINE RANGE ORGANICS (µg/L) / [DUPLICATE (µg/L)]     |
| DRO         | DIESEL RANGE ORGANICS (µg/L) / [DUPLICATE (µg/L)]       |
| HO          | HEAVY OILS (µg/L) / [DUPLICATE (µg/L)]                  |
| B           | BENZENE (µg/L) / [DUPLICATE (µg/L)]                     |
| T           | TOLUENE (µg/L) / [DUPLICATE (µg/L)]                     |
| E           | ETHYLBENZENE (µg/L) / [DUPLICATE (µg/L)]                |
| X           | TOTAL XYLENES (µg/L) / [DUPLICATE (µg/L)]               |
| MTBE        | METHYL TERTIARY BUTYL ETHER (µg/L) / [DUPLICATE (µg/L)] |
| T-Pb        | TOTAL LEAD (µg/L) / [DUPLICATE (µg/L)]                  |

NOTE:  
BASEMAP SUPPLIED BY OTAK, INC., IN 2010. HISTORICAL INFORMATION SUPPLIED BY DELTA ENVIRONMENTAL CONSULTANTS, INC.



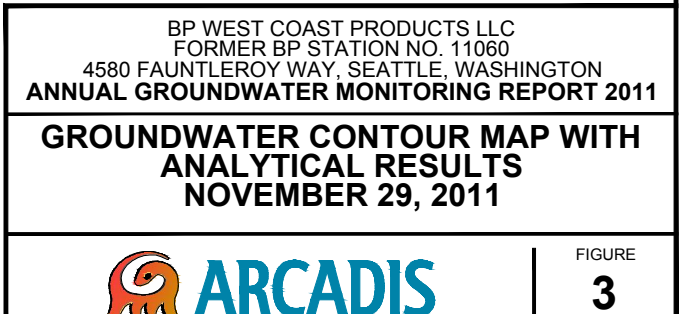
BP WEST COAST PRODUCTS LLC  
FORMER BP STATION NO. 11060  
4580 FAUNTILERROY WAY, SEATTLE, WASHINGTON  
ANNUAL GROUNDWATER MONITORING REPORT 2011

GROUNDWATER CONTOUR MAP WITH  
ANALYTICAL RESULTS  
MAY 10, 2011

ARCADIS

FIGURE  
2





ARCADIS

**Attachments A**

Groundwater Monitoring  
Field Data Sheets

11

BP Tranche 2  
Groundwater Monitoring  
Field Data Forms



GWM Event Field Notes Form

Site ID: ARCO-41069 11060

Project #: GP09BPNA.WA53

Site Address: 1517 W. Dravus Street, Seattle WA

Date: 5.10.2011

Fawcett

Site Conditions / Additional Field Notes:

1045 Arrived on site, greeted Station Manager.  
1050 Completed PTW/Tailgate form. Reviewed HASP and SOW  
1100 Began Setup for well gauging.  
1200 completed well gauging, set up for groundwater sampling.  
1340 collected duplicate sample from well MW-2  
1530 completed groundwater sampling.  
1540 placed approx 3 gallons waste water into AST located  
on site.  
1600 Filled out COC, checked samples for accuracy.  
1615 Departed site for Pace Labs for sample drop off.

AD



Project #: GP09BPNA.WA53

Date: 5.10.2011

Page \_\_\_\_ of \_\_\_\_





# Groundwater Sampling Form

Page 1 of 1

Project No. GP09BPNA.WA53

Well ID MW-3

Date 5.10.011

Project Name/Location ARCO 11069 1517 W. Dravus Street, Seattle, WA

Weather \_\_\_\_\_

| Measuring Pt. |            |
|---------------|------------|
| Description   |            |
|               | North Side |

Screen  
Setting (ft-bmp)

Casing  
Diameter (in.) \_\_\_\_\_

Well Material      x   PVC  
                                    SS

Static Water  
Level (ft-btoc) 22.55

Total Depth (ft-btoc)

Water Column/  
Gallons in Well

Initial PID  
Reading (ppm) \_\_\_\_\_

TOC Elevation \_\_\_\_\_

Pump Intake (ft-btoc)

Purge Method:                      No Purge

Sample

Pump On/Off

Volumes Purged

Centrifugal

Submersible

Other

**Bailer**

Sample Time: Label 1410

Replicate/

Start

Code No.

Sampled by N Olivier

End

[illegible]

| Constituents Sampled | Container   | Number | Preservative |
|----------------------|-------------|--------|--------------|
| GRO                  | 40 mL VOA   | 3      | HCL          |
| DRO/HO               | 1 L Amber   | 2      | HCL          |
| BTEX/MTBE            | 40 mL VOA   | 3      | HCL          |
| Total Lead           | 250 mL Poly | 1      | HNO3         |
|                      |             |        |              |
|                      |             |        |              |
|                      |             |        |              |
|                      |             |        |              |
|                      |             |        |              |

## Well Casing Volumes

|              |              |             |             |             |           |
|--------------|--------------|-------------|-------------|-------------|-----------|
| Gallons/Foot | 1" = 0.04    | 1.5" = 0.09 | 2.5" = 0.26 | 3.5" = 0.50 | 6" = 1.47 |
|              | 1.25" = 0.06 | 2" = 0.16   | 3" = 0.37   | 4" = 0.65   |           |

## Well Information

Well Location: N. side, sidewalk

Well Locked at Arrival:      Yes      /      ~~No~~

Condition of Well: 2 of 2 Stripped

Well Locked at Departure: Yes / ( No

Well Completion: Flush Mount / Stick Up

Key Number To Well:



# Groundwater Sampling Form

Page 1 of 1

Project No. GP09BPNA.WA53

Well ID MW-2

Date 5.10.011

Project Name/Location 11060 Fawcett  
ARCO-41069-1517 W. Dravus Street, Seattle, WA

Weather

|               |       |
|---------------|-------|
| Measuring Pt. | black |
| Description   | mark  |

Screen  
Setting (ft-bmp) \_\_\_\_\_

Casing  
Diameter (in.) \_\_\_\_\_

Well Material     x     PVC  
                              SS

Static Water  
Level (ft-btoc) 23.23

Total Depth (ft-btoc)

Water Column/  
Gallons in Well

Initial PID  
Reading (ppm) \_\_\_\_\_

TOC Elevation                      Pump Intake (ft-btoc)

Purge Method: No Purge

|               |      |
|---------------|------|
| Sample Method | grab |
|---------------|------|

Pump On/Off \_\_\_\_\_ Volumes Purged \_\_\_\_\_

|             |        |
|-------------|--------|
| Centrifugal |        |
| Submersible |        |
| Other       | Bailer |

Sample Time: Label 1340  
Start \_\_\_\_\_  
End \_\_\_\_\_

Replicate/  
Code No. Dup

Sampled by N Olivier

[illegible]

| Constituents Sampled | Container   | Number | Preservative |
|----------------------|-------------|--------|--------------|
| GRO                  | 40 mL VOA   | 3      | HCL          |
| DRO/HO               | 1 L Amber   | 2      | HCL          |
| BTEX/MTBE            | 40 mL VOA   | 3      | HCL          |
| Total Lead           | 250 mL Poly | 1      | HNO3         |
|                      |             |        |              |
|                      |             |        |              |
|                      |             |        |              |
|                      |             |        |              |

### Well Casing Volumes

|              |              |             |             |             |           |
|--------------|--------------|-------------|-------------|-------------|-----------|
| Gallons/Foot | 1" = 0.04    | 1.5" = 0.09 | 2.5" = 0.26 | 3.5" = 0.50 | 6" = 1.47 |
|              | 1.25" = 0.06 | 2" = 0.16   | 3" = 0.37   | 4" = 0.65   |           |

## Well Information

Well Location: by AST  
Condition of Well: 2 of 2 Stumped  
Well Completion: Flush Mount / Stick Up

|                           |     |   |    |
|---------------------------|-----|---|----|
| Well Locked at Arrival:   | Yes | / | No |
| Well Locked at Departure: | Yes | / | No |

Key Number To Well:



# Groundwater Sampling Form

Page 1 of 1

Project No. GP09BPNA.WA53

Well ID MW-5

Date 5.10.011

Project Name/Location ARCO 11069, 1517 W. Dravus Street, Seattle, WA

Weather \_\_\_\_\_

|               |       |
|---------------|-------|
| Measuring Pt. | black |
| Description   | mark  |

Screen  
Setting (ft-bmp)

Casing  
Diameter (in.) \_\_\_\_\_

Well Material      $\frac{x}{\text{SS}}$  PVC

Static Water  
Level (ft-btoc) 24.61

Total Depth (ft-btoc)

Water Column/  
Gallons in Well

Initial PID  
Reading (ppm) \_\_\_\_\_

### TOC Elevation

Pump Intake (ft-btoc)

Purge Method: No Purge

Sample

Pump On/Off \_\_\_\_\_

### Volumes Purged

|             |        |
|-------------|--------|
| Centrifugal |        |
| Submersible |        |
| Other       | Bailer |

Sample Time: Label 1310

Replicate/

Sampled by N Olivier

Start

End

[illegible]

| Constituents Sampled | Container   | Number | Preservative |
|----------------------|-------------|--------|--------------|
| GRO                  | 40 mL VOA   | 3      | HCL          |
| DRO/HO               | 1 L Amber   | 2      | HCL          |
| BTEX/MTBE            | 40 mL VOA   | 3      | HCL          |
| Total Lead           | 250 mL Poly | 1      | HNO3         |
|                      |             |        |              |
|                      |             |        |              |
|                      |             |        |              |
|                      |             |        |              |
|                      |             |        |              |

## Well Casing Volumes

|              |              |             |             |             |           |
|--------------|--------------|-------------|-------------|-------------|-----------|
| Gallons/Foot | 1" = 0.04    | 1.5" = 0.09 | 2.5" = 0.26 | 3.5" = 0.50 | 6" = 1.47 |
|              | 1.25" = 0.06 | 2" = 0.16   | 3" = 0.37   | 4" = 0.65   |           |

## Well Information

Well Location: SW corner

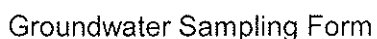
Well Locked at Arrival: Yes / No

Condition of Well: 2 of 2 Stripped

Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up

Key Number To Well: \_\_\_\_\_



Date 5.10.011

Weather

Well Material     x     PVC  
                                        
                              SS

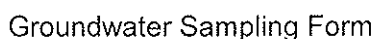
Initial PID  
Reading (ppm)

Sample

|               |      |
|---------------|------|
| Sample Method | grab |
|---------------|------|

Sampled by N Olivier





Project No. GP09BPNA.WA88

Well ID 6MW-1

Date 5.10.011

Project Name/Location ARCO-11069 1517 W. Dravus Street, Seattle, WA

## Weather

|               |       |
|---------------|-------|
| Measuring Pt. | black |
| Description   | Mark  |

Screen  
Setting (ft-bmp)

Casing  
Diameter (in.) 2

Well Material     x     PVC  
                              SS

Static Water  
Level (ft-bloc) 22.08

Total Depth (ft-btoc)

Water Column/  
Gallons in Well

Initial PID  
Reading (ppm)

### TOC Elevation

Pump Intake (ft-bloc)

Purge Method: No Purge

|               |      |
|---------------|------|
| Sample Method | grab |
|---------------|------|

Pump On/Off

### Volumes Purged

Centrifugal \_\_\_\_\_  
Submersible \_\_\_\_\_  
Other \_\_\_\_\_ Bailer \_\_\_\_\_

Sample Time: Label 1450

Replicate/

Start

Code No.

End

Sampled by N Olivier

Well Location: car wash drive

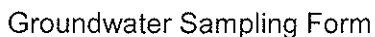
Well Locked at Arrival: Yes / ☒ No

Condition of Well: 3 of 3 good

Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up

Key Number To Well:



Project No. GP09BPNA.WA58

Well ID MW-9

Date 5.10.011

Project Name/Location ARCO-11069-1517 W. Dravus Street, Seattle, WA

Weather

|               |       |
|---------------|-------|
| Measuring Pt. | black |
| Description   | mark  |

Screen  
Setting (ft-bmp)

Casing Diameter (in.) 2

Weil Material  $\frac{x}{\text{SS}}$  PVC

Static Water  
Level (ft-bloc) ~~2~~ 20.70

Total Depth (ft-bloc)

Water Column/  
Gallons in Well

Initial PID  
Reading (ppm)

TOC Elevation

Pump Intake (ft-btoc)

Purge Method: No Purge

Sample

Pump On/Off

Volumes Purged

|             |              |
|-------------|--------------|
| Centrifugal | _____        |
| Submersible | _____        |
| Other       | Bailer _____ |

|        |      |
|--------|------|
| Method | grab |
|--------|------|

Sample Time: Label 1515

Replicate/

Sampled by N Olivier

Start 1510

End

\_\_\_\_\_

[illegible]

| Constituents Sampled | Container   | Number | Preservative |
|----------------------|-------------|--------|--------------|
| GRO                  | 40 mL VOA   | 3      | HCL          |
| DRO/HO               | 1 L Amber   | 2      | HCL          |
| BTEX/MTBE            | 40 mL VOA   | 3      | HCL          |
| Total Lead           | 250 mL Poly | 1      | HNO3         |
|                      |             |        |              |
|                      |             |        |              |
|                      |             |        |              |
|                      |             |        |              |

### Well Casing Volumes

|              |              |             |             |             |           |
|--------------|--------------|-------------|-------------|-------------|-----------|
| Gallons/Foot | 1" = 0.04    | 1.5" = 0.09 | 2.5" = 0.26 | 3.5" = 0.50 | 6" = 1.47 |
|              | 1.25" = 0.06 | 2" = 0.16   | 3" = 0.37   | 4" = 0.65   |           |

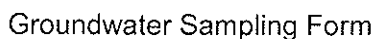
## Well Information

Well Location: Cycle university  
Condition of Well: 2 of 3 good  
Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes / No ☒

Well Locked at Departure: Yes / No

Key Number To Well:



Project No. GP09BPNA.WA53

Well ID

NW-6

Date 5.10.011

Project Name/Location ARCO-11069 1517 W. Dravus Street, Seattle, WA

## Weather

|               |       |
|---------------|-------|
| Measuring Pt. | black |
| Description   | MARK  |

Screen  
Setting (ft-bmp)

Casing  
Diameter (in.) 2

Well Material  $\frac{x}{\text{SS}}$  PVC

Static Water Level (ft-btoc) 22.01

Total Depth (ft-bfoc)

Water Column/  
Gallons in Well

Initial PID  
Reading (ppm)

### TOC Elevation

Pump Intake (ft-btoc)

Purge Method: No Purge

|               |      |
|---------------|------|
| Sample Method | grab |
|---------------|------|

Pump On/Off

### Volumes Purged

|             |        |
|-------------|--------|
| Centrifugal | _____  |
| Submersible | _____  |
| Other       | Bailer |

Sample Time: Label 1215  
Start 1210  
End

Replicate/  
Code No.

Sampled by N Olivier

[illegible]

| Constituents Sampled   | Container   | Number | Preservative |
|------------------------|-------------|--------|--------------|
| GRO                    | 40 mL VOA   | 3      | HCL          |
| DRO/HO                 | 1 L Amber   | 2      | HCL          |
| BTEX/MTBE              | 40 mL VOA   | 3      | HCL          |
| Total Lead             | 250 mL Poly | 1      | HNO3         |
| Dx GL Sample collected | 1 L Amber   | 1      | HCL          |
|                        |             |        |              |
|                        |             |        |              |
|                        |             |        |              |

### Well Casing Volumes

|              |              |             |             |             |           |
|--------------|--------------|-------------|-------------|-------------|-----------|
| Gallons/Foot | 1" = 0.04    | 1.5" = 0.09 | 2.5" = 0.26 | 3.5" = 0.50 | 6" = 1.47 |
|              | 1.25" = 0.06 | 2" = 0.16   | 3" = 0.37   | 4" = 0.65   |           |

## Well Information

Well Location: Planter N end  
Condition of Well: 3 of 3 Stripped  
Well Completion: (Flush Mount) / Stick Up

|                           |     |   |    |
|---------------------------|-----|---|----|
| Well Locked at Arrival:   | Yes | / | No |
| Well Locked at Departure: | Yes | / | No |
| Key Number To Well:       |     |   |    |

11-29-11

Former ARCO 11060

8:30 Arrive on site, safety tailgate, scope of work  
clean PPE ~~on~~

8:49 MOB to MW-6 DTW = 23.42 PID = 0.2

8:55 Take PSI readings

| $^{\circ}\text{C}$ | DO $\text{mg/L}$ | SPC   | pH   | ORP $\text{mV}$ |
|--------------------|------------------|-------|------|-----------------|
| 13.3               | 0.78             | 337.0 | 5.18 | 170.1           |

9:15 Sample MW-6

9:30 MOB to MW-1 DTW = 24.84 PID = 491 Very hot

9:35 Log PSI Readings

| $^{\circ}\text{C}$ | DO   | SPC  | pH   | ORP $\text{mV}$ |
|--------------------|------|------|------|-----------------|
| 13.3               | 2.53 | 1032 | 5.87 | 160.7           |

9:40 Sample MW-1

9:52 MOB to MW-5 DTW = 25.55 PID = 112 V. hot

10:00 PSI readings

| $^{\circ}\text{C}$ | DO   | SPC | pH   | ORP $\text{mV}$ |
|--------------------|------|-----|------|-----------------|
| 13.6               | 2.47 | 972 | 6.18 | 151.3           |

10:10 Sample MW-5

10:20 Gauge MW-2 DTW = 24.82 PID = 180

10:45 Sample MW-2 Get YSI readings

| $^{\circ}\text{C}$ | DO   | SPC   | pH   | ORP $\text{mV}$ |
|--------------------|------|-------|------|-----------------|
| 12.5               | 2.14 | 593.8 | 6.49 | 84.9            |

11:00 Gauge MW-3 DTW = 24.19 PID = 115

|                               |                                                                                                                                                                                                                                                                           |           |             |                                     |                         |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|-------------------------------------|-------------------------|
| 1115                          | Sample                                                                                                                                                                                                                                                                    | MW-3.     | Collect     | YSI                                 | parameters:             |
|                               | <u>C<sup>o</sup></u>                                                                                                                                                                                                                                                      | <u>PH</u> | <u>DO</u>   | <u>SPEC</u><br><u>COND</u>          | <u>ORP</u><br><u>MV</u> |
|                               | 12.2                                                                                                                                                                                                                                                                      | 6.45      | 1.12        | 611.1                               | 71.9                    |
| *ALSO SAMPLE FOR QC CNWTPH DX |                                                                                                                                                                                                                                                                           |           |             |                                     |                         |
| 1130                          | Gauge                                                                                                                                                                                                                                                                     | MW-9.     | DTW: 22.64  | PID: 0.1                            |                         |
| 1145                          | Sample                                                                                                                                                                                                                                                                    | MW-9 & E  | DUP-1.      | Collect                             | YSI parameters:         |
|                               | <u>C<sup>o</sup></u>                                                                                                                                                                                                                                                      | <u>PH</u> | <u>DO</u>   | <u>SPEC</u><br><u>COND</u>          | <u>ORP</u><br><u>MV</u> |
|                               | 12.9                                                                                                                                                                                                                                                                      | 6.72      | 0.70        | 806                                 | 48.9                    |
| 1205                          | Gauge                                                                                                                                                                                                                                                                     | MW-GW-1.  | DTW: 23.83  | PID: 438                            |                         |
| 1220                          | Sample                                                                                                                                                                                                                                                                    | MW-GW-1.  | Collect     | YSI                                 | parameters:             |
|                               | <u>C<sup>o</sup></u>                                                                                                                                                                                                                                                      | <u>PH</u> | <u>DO</u>   | <u>SPEC</u><br><u>COND</u>          | <u>ORP</u><br><u>MV</u> |
|                               | 13.5                                                                                                                                                                                                                                                                      | 6.76      | 0.95        | 268.3                               | 41.9                    |
| 1230                          | Stop sampling. Close down well and pack sample on ice. Mob to VE-1 to bail product.                                                                                                                                                                                       |           |             |                                     |                         |
| 1250                          | Open VE-1.                                                                                                                                                                                                                                                                | Gauge at  | DTW: 24.22  | PID: Not used to not burn out lamp. |                         |
|                               |                                                                                                                                                                                                                                                                           |           | DTW = 24.20 |                                     |                         |
| 1305                          | Finish bailing product. $\approx$ 0.25 gallons of product poured and .75 gallons of water. All waste was put in on site AST. Ladder was used to climb up on AST. Waste was put into AST via drum funnel. Funnel and bucket were decont, then put in trash bag and sealed. |           |             |                                     |                         |
| 1315                          | All equipment packed. SM and RL leave site.                                                                                                                                                                                                                               |           |             |                                     |                         |

*James McQueen*

DRUM SITUATION: All waste stored in AST on site. Ladder not left on site.

METHODOLOGY: All work was done as per SAW. PID/YSI used and calibrated. Clean bailers were used in every well. Samples were brought by ARADIS to LAB.



Groundwater Monitoring Well Gauging Form

Site ID: ARCO # 11060

Project #: GP09BPNA.WA48

Site Address: 4580 Fauntleroy Way SW, Seattle, WA

Date: 11/29/2011

| Well ID | Time                                 | Sheen/<br>Odor  | LNAPL<br>Depth | LNAPL<br>Thickness | DTW   | TD | Notes                                         |
|---------|--------------------------------------|-----------------|----------------|--------------------|-------|----|-----------------------------------------------|
| MW-6    | 8:50                                 | -               | -              | -                  | 23.42 | -  | PID 0.2                                       |
| MW-1    | 930                                  | HCL             | -              | -                  | 24.84 | -  | PID 491 V. Hot<br>1                           |
| MW-5    | 1000                                 | -               | -              | -                  | 25.55 | -  | PID 424 V. Hot                                |
| MW-2    | 1028                                 | HCL or<br>Sheen | -              | -                  | 24.82 | -  | PID 182<br>2 1/2 Bolts / 1/2 stripped         |
| MW-3    | 1100                                 | -               | -              | -                  | 24.19 | -  | PID 115<br>2 1/2 Bolts Stripped<br>- Shrimper |
| MW-4    | WAS ELIMINATED DUE TO CONFINED SPACE |                 |                |                    |       |    |                                               |
| MW-9    | 1130                                 | -               | -              | -                  | 22.64 | -  | 3/3 Bolts Good<br>PID = 0.1                   |
| MW-609  | 1205                                 | YES BUTT        | -              | -                  | 23.83 | -  | 3/3 Bolts Good<br>PID = 130                   |
|         |                                      |                 |                |                    |       |    |                                               |
|         |                                      |                 |                |                    |       |    |                                               |
|         |                                      |                 |                |                    |       |    |                                               |
|         |                                      |                 |                |                    |       |    |                                               |
|         |                                      |                 |                |                    |       |    |                                               |
|         |                                      |                 |                |                    |       |    |                                               |
|         |                                      |                 |                |                    |       |    |                                               |
|         |                                      |                 |                |                    |       |    |                                               |
|         |                                      |                 |                |                    |       |    |                                               |
|         |                                      |                 |                |                    |       |    |                                               |
|         |                                      |                 |                |                    |       |    |                                               |



ARCADIS

**Attachment B**

Laboratory Report and  
Chain-of-Custody Documentation

May 23, 2011

Scott Zorn  
Arcadis U.S., Inc.  
2300 Eastlake Ave E. Ste. 200  
Seattle, WA 98102

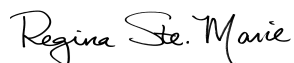
RE: Project: ARCO #11060  
Pace Project No.: 257594

Dear Scott Zorn:

Enclosed are the analytical results for sample(s) received by the laboratory on May 10, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Regina SteMarie

regina.stemarie@pacelabs.com  
Project Manager

Enclosures

cc: Alan Kahal, Arcadis U.S., Inc.  
Nick Olivier, Arcadis U.S., Inc.  
David Rasar, Arcadis U.S., Inc.  
Rick Rodriguez, Arcadis U.S., Inc.

## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: ARCO #11060

Pace Project No.: 257594

### Washington Certification IDs

940 South Harney Street, Seattle, WA 98108

Alaska CS Certification #: UST-025

Alaska Drinking Water VOC Certification #: WA01230

Alaska Drinking Water Micro Certification #: WA01230

California Certification #: 01153CA

Florida/NELAP Certification #: E87617

Oregon Certification #: WA200007

Washington Certification #: C1229

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: ARCO #11060

Pace Project No.: 257594

| Lab ID    | Sample ID  | Method         | Analysts | Analytes Reported | Laboratory |
|-----------|------------|----------------|----------|-------------------|------------|
| 257594001 | MW-9       | NWTPH-Dx       | AY1      | 4                 | PASI-S     |
|           |            | EPA 6010       | BGA      | 1                 | PASI-S     |
|           |            | EPA 5030B/8260 | LNH      | 9                 | PASI-S     |
|           |            | NWTPH-Gx       | LNH      | 2                 | PASI-S     |
| 257594002 | GMW-1      | NWTPH-Dx       | AY1      | 4                 | PASI-S     |
|           |            | EPA 6010       | BGA      | 1                 | PASI-S     |
|           |            | EPA 5030B/8260 | LNH      | 9                 | PASI-S     |
|           |            | NWTPH-Gx       | LNH      | 2                 | PASI-S     |
| 257594003 | MW-6       | NWTPH-Dx       | AY1      | 4                 | PASI-S     |
|           |            | EPA 6010       | BGA      | 1                 | PASI-S     |
|           |            | EPA 5030B/8260 | LNH      | 9                 | PASI-S     |
|           |            | NWTPH-Gx       | LNH      | 2                 | PASI-S     |
| 257594004 | MW-1       | NWTPH-Dx       | AY1      | 4                 | PASI-S     |
|           |            | EPA 6010       | BGA      | 1                 | PASI-S     |
|           |            | EPA 5030B/8260 | LPM      | 9                 | PASI-S     |
|           |            | NWTPH-Gx       | LNH      | 2                 | PASI-S     |
| 257594005 | MW-5       | NWTPH-Dx       | AY1      | 4                 | PASI-S     |
|           |            | EPA 6010       | BGA      | 1                 | PASI-S     |
|           |            | EPA 5030B/8260 | LPM      | 9                 | PASI-S     |
|           |            | NWTPH-Gx       | LNH      | 2                 | PASI-S     |
| 257594006 | MW-2       | NWTPH-Dx       | AY1      | 4                 | PASI-S     |
|           |            | EPA 6010       | BGA      | 1                 | PASI-S     |
|           |            | EPA 5030B/8260 | LPM      | 9                 | PASI-S     |
|           |            | NWTPH-Gx       | LNH      | 2                 | PASI-S     |
| 257594007 | MW-3       | NWTPH-Dx       | AY1      | 4                 | PASI-S     |
|           |            | EPA 6010       | BGA      | 1                 | PASI-S     |
|           |            | EPA 5030B/8260 | LPM      | 9                 | PASI-S     |
|           |            | NWTPH-Gx       | LNH      | 2                 | PASI-S     |
| 257594008 | DUP        | NWTPH-Dx       | AY1      | 4                 | PASI-S     |
|           |            | EPA 6010       | BGA      | 1                 | PASI-S     |
|           |            | EPA 5030B/8260 | LPM      | 9                 | PASI-S     |
|           |            | NWTPH-Gx       | LNH      | 2                 | PASI-S     |
| 257594009 | Trip Blank | EPA 5030B/8260 | LNH      | 9                 | PASI-S     |
|           |            | NWTPH-Gx       | LNH      | 2                 | PASI-S     |

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: ARCO #11060

Pace Project No.: 257594

---

**Method:** NWTPH-Dx

**Description:** NWTPH-Dx GCS

**Client:** Arcadis U.S., Inc.

**Date:** May 23, 2011

**General Information:**

8 samples were analyzed for NWTPH-Dx. All samples were received in acceptable condition with any exceptions noted below.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: ARCO #11060

Pace Project No.: 257594

---

**Method:** EPA 6010

**Description:** 6010 MET ICP

**Client:** Arcadis U.S., Inc.

**Date:** May 23, 2011

**General Information:**

8 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: ARCO #11060

Pace Project No.: 257594

---

**Method:** EPA 5030B/8260

**Description:** 8260 MSV

**Client:** Arcadis U.S., Inc.

**Date:** May 23, 2011

**General Information:**

9 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: ARCO #11060

Pace Project No.: 257594

---

**Method:** NWTPH-Gx

**Description:** NWTPH-Gx MSV

**Client:** Arcadis U.S., Inc.

**Date:** May 23, 2011

**General Information:**

9 samples were analyzed for NWTPH-Gx. All samples were received in acceptable condition with any exceptions noted below.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: ARCO #11060

Pace Project No.: 257594

| Sample: MW-9              |           | Lab ID: 257594001                                        | Collected: 05/10/11 15:15 | Received: 05/10/11 16:20 | Matrix: Water  |                |            |      |
|---------------------------|-----------|----------------------------------------------------------|---------------------------|--------------------------|----------------|----------------|------------|------|
| Parameters                | Results   | Units                                                    | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>NWTPH-Dx GCS</b>       |           | Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 |                           |                          |                |                |            |      |
| Diesel Range              | 0.16 mg/L |                                                          | 0.083                     | 1                        | 05/12/11 11:00 | 05/12/11 21:18 |            |      |
| Motor Oil Range           | ND mg/L   |                                                          | 0.42                      | 1                        | 05/12/11 11:00 | 05/12/11 21:18 | 64742-65-0 |      |
| n-Octacosane (S)          | 109 %     |                                                          | 50-150                    | 1                        | 05/12/11 11:00 | 05/12/11 21:18 | 630-02-4   |      |
| o-Terphenyl (S)           | 93 %      |                                                          | 50-150                    | 1                        | 05/12/11 11:00 | 05/12/11 21:18 | 84-15-1    |      |
| <b>6010 MET ICP</b>       |           | Analytical Method: EPA 6010 Preparation Method: EPA 3010 |                           |                          |                |                |            |      |
| Lead                      | ND ug/L   |                                                          | 10.0                      | 1                        | 05/17/11 10:06 | 05/17/11 16:08 | 7439-92-1  |      |
| <b>8260 MSV</b>           |           | Analytical Method: EPA 5030B/8260                        |                           |                          |                |                |            |      |
| Benzene                   | ND ug/L   |                                                          | 1.0                       | 1                        |                | 05/12/11 01:55 | 71-43-2    |      |
| Ethylbenzene              | ND ug/L   |                                                          | 1.0                       | 1                        |                | 05/12/11 01:55 | 100-41-4   |      |
| Methyl-tert-butyl ether   | ND ug/L   |                                                          | 1.0                       | 1                        |                | 05/12/11 01:55 | 1634-04-4  |      |
| Toluene                   | ND ug/L   |                                                          | 1.0                       | 1                        |                | 05/12/11 01:55 | 108-88-3   |      |
| Xylene (Total)            | ND ug/L   |                                                          | 3.0                       | 1                        |                | 05/12/11 01:55 | 1330-20-7  |      |
| 4-Bromofluorobenzene (S)  | 99 %      |                                                          | 80-120                    | 1                        |                | 05/12/11 01:55 | 460-00-4   |      |
| Dibromofluoromethane (S)  | 94 %      |                                                          | 80-122                    | 1                        |                | 05/12/11 01:55 | 1868-53-7  |      |
| 1,2-Dichloroethane-d4 (S) | 95 %      |                                                          | 80-124                    | 1                        |                | 05/12/11 01:55 | 17060-07-0 |      |
| Toluene-d8 (S)            | 98 %      |                                                          | 80-123                    | 1                        |                | 05/12/11 01:55 | 2037-26-5  |      |
| <b>NWTPH-Gx MSV</b>       |           | Analytical Method: NWTPH-Gx                              |                           |                          |                |                |            |      |
| Gasoline Range Organics   | ND ug/L   |                                                          | 50.0                      | 1                        |                | 05/12/11 01:55 |            |      |
| 4-Bromofluorobenzene (S)  | 99 %      |                                                          | 50-150                    | 1                        |                | 05/12/11 01:55 | 460-00-4   |      |

| Sample: GMW-1             |           | Lab ID: 257594002                                        | Collected: 05/10/11 14:50 | Received: 05/10/11 16:20 | Matrix: Water  |                |            |      |
|---------------------------|-----------|----------------------------------------------------------|---------------------------|--------------------------|----------------|----------------|------------|------|
| Parameters                | Results   | Units                                                    | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>NWTPH-Dx GCS</b>       |           | Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 |                           |                          |                |                |            |      |
| Diesel Range              | 1.9 mg/L  |                                                          | 0.083                     | 1                        | 05/12/11 11:00 | 05/12/11 21:34 |            |      |
| Motor Oil Range           | ND mg/L   |                                                          | 0.42                      | 1                        | 05/12/11 11:00 | 05/12/11 21:34 | 64742-65-0 |      |
| n-Octacosane (S)          | 112 %     |                                                          | 50-150                    | 1                        | 05/12/11 11:00 | 05/12/11 21:34 | 630-02-4   |      |
| o-Terphenyl (S)           | 97 %      |                                                          | 50-150                    | 1                        | 05/12/11 11:00 | 05/12/11 21:34 | 84-15-1    |      |
| <b>6010 MET ICP</b>       |           | Analytical Method: EPA 6010 Preparation Method: EPA 3010 |                           |                          |                |                |            |      |
| Lead                      | 28.4 ug/L |                                                          | 10.0                      | 1                        | 05/17/11 10:06 | 05/17/11 16:17 | 7439-92-1  |      |
| <b>8260 MSV</b>           |           | Analytical Method: EPA 5030B/8260                        |                           |                          |                |                |            |      |
| Benzene                   | 2.4 ug/L  |                                                          | 1.0                       | 1                        |                | 05/12/11 04:11 | 71-43-2    |      |
| Ethylbenzene              | 69.7 ug/L |                                                          | 1.0                       | 1                        |                | 05/12/11 04:11 | 100-41-4   |      |
| Methyl-tert-butyl ether   | ND ug/L   |                                                          | 1.0                       | 1                        |                | 05/12/11 04:11 | 1634-04-4  |      |
| Toluene                   | ND ug/L   |                                                          | 1.0                       | 1                        |                | 05/12/11 04:11 | 108-88-3   |      |
| Xylene (Total)            | 94.8 ug/L |                                                          | 3.0                       | 1                        |                | 05/12/11 04:11 | 1330-20-7  |      |
| 4-Bromofluorobenzene (S)  | 97 %      |                                                          | 80-120                    | 1                        |                | 05/12/11 04:11 | 460-00-4   |      |
| Dibromofluoromethane (S)  | 98 %      |                                                          | 80-122                    | 1                        |                | 05/12/11 04:11 | 1868-53-7  |      |
| 1,2-Dichloroethane-d4 (S) | 92 %      |                                                          | 80-124                    | 1                        |                | 05/12/11 04:11 | 17060-07-0 |      |

Date: 05/23/2011 04:56 PM

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: ARCO #11060

Pace Project No.: 257594

| Sample: <b>GMW-1</b>     |  | Lab ID: <b>257594002</b>          |       | Collected: 05/10/11 14:50 |    | Received: 05/10/11 16:20 |                | Matrix: Water |      |
|--------------------------|--|-----------------------------------|-------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters               |  | Results                           | Units | Report Limit              | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>8260 MSV</b>          |  | Analytical Method: EPA 5030B/8260 |       |                           |    |                          |                |               |      |
| Toluene-d8 (S)           |  | 100 %                             |       | 80-123                    | 1  |                          | 05/12/11 04:11 | 2037-26-5     |      |
| <b>NWTPH-Gx MSV</b>      |  | Analytical Method: NWTPH-Gx       |       |                           |    |                          |                |               |      |
| Gasoline Range Organics  |  | <b>5930</b> ug/L                  |       | 50.0                      | 1  |                          | 05/12/11 04:11 |               |      |
| 4-Bromofluorobenzene (S) |  | 97 %                              |       | 50-150                    | 1  |                          | 05/12/11 04:11 | 460-00-4      |      |

| Sample: MW-6              |           | Lab ID: 257594003                                        |              | Collected: 05/10/11 12:15 |                | Received: 05/10/11 16:20 |            | Matrix: Water |  |
|---------------------------|-----------|----------------------------------------------------------|--------------|---------------------------|----------------|--------------------------|------------|---------------|--|
| Parameters                | Results   | Units                                                    | Report Limit | DF                        | Prepared       | Analyzed                 | CAS No.    | Qual          |  |
| NWTPH-Dx GCS              |           | Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 |              |                           |                |                          |            |               |  |
| Diesel Range              | 0.18 mg/L |                                                          | 0.078        | 1                         | 05/12/11 11:00 | 05/12/11 21:51           |            |               |  |
| Motor Oil Range           | ND mg/L   |                                                          | 0.39         | 1                         | 05/12/11 11:00 | 05/12/11 21:51           | 64742-65-0 |               |  |
| n-Octacosane (S)          | 110 %     |                                                          | 50-150       | 1                         | 05/12/11 11:00 | 05/12/11 21:51           | 630-02-4   |               |  |
| o-Terphenyl (S)           | 95 %      |                                                          | 50-150       | 1                         | 05/12/11 11:00 | 05/12/11 21:51           | 84-15-1    |               |  |
| 6010 MET ICP              |           | Analytical Method: EPA 6010 Preparation Method: EPA 3010 |              |                           |                |                          |            |               |  |
| Lead                      | ND ug/L   |                                                          | 10.0         | 1                         | 05/17/11 10:06 | 05/17/11 16:20           | 7439-92-1  |               |  |
| 8260 MSV                  |           | Analytical Method: EPA 5030B/8260                        |              |                           |                |                          |            |               |  |
| Benzene                   | ND ug/L   |                                                          | 1.0          | 1                         |                | 05/12/11 02:29           | 71-43-2    |               |  |
| Ethylbenzene              | ND ug/L   |                                                          | 1.0          | 1                         |                | 05/12/11 02:29           | 100-41-4   |               |  |
| Methyl-tert-butyl ether   | ND ug/L   |                                                          | 1.0          | 1                         |                | 05/12/11 02:29           | 1634-04-4  |               |  |
| Toluene                   | ND ug/L   |                                                          | 1.0          | 1                         |                | 05/12/11 02:29           | 108-88-3   |               |  |
| Xylene (Total)            | ND ug/L   |                                                          | 3.0          | 1                         |                | 05/12/11 02:29           | 1330-20-7  |               |  |
| 4-Bromofluorobenzene (S)  | 97 %      |                                                          | 80-120       | 1                         |                | 05/12/11 02:29           | 460-00-4   |               |  |
| Dibromofluoromethane (S)  | 94 %      |                                                          | 80-122       | 1                         |                | 05/12/11 02:29           | 1868-53-7  |               |  |
| 1,2-Dichloroethane-d4 (S) | 92 %      |                                                          | 80-124       | 1                         |                | 05/12/11 02:29           | 17060-07-0 |               |  |
| Toluene-d8 (S)            | 99 %      |                                                          | 80-123       | 1                         |                | 05/12/11 02:29           | 2037-26-5  |               |  |
| NWTPH-Gx MSV              |           | Analytical Method: NWTPH-Gx                              |              |                           |                |                          |            |               |  |
| Gasoline Range Organics   | 96.0 ug/L |                                                          | 50.0         | 1                         |                | 05/18/11 01:13           |            |               |  |
| 4-Bromofluorobenzene (S)  | 102 %     |                                                          | 50-150       | 1                         |                | 05/18/11 01:13           | 460-00-4   |               |  |

|                  |  |                                                          |       |                           |    |                          |                |               |      |
|------------------|--|----------------------------------------------------------|-------|---------------------------|----|--------------------------|----------------|---------------|------|
| Sample: MW-1     |  | Lab ID: 257594004                                        |       | Collected: 05/10/11 12:45 |    | Received: 05/10/11 16:20 |                | Matrix: Water |      |
| Parameters       |  | Results                                                  | Units | Report Limit              | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| NWTPH-Dx GCS     |  | Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 |       |                           |    |                          |                |               |      |
| Diesel Range     |  | 0.84 mg/L                                                |       | 0.084                     | 1  | 05/12/11 11:00           | 05/12/11 22:23 |               |      |
| Motor Oil Range  |  | ND mg/L                                                  |       | 0.42                      | 1  | 05/12/11 11:00           | 05/12/11 22:23 | 64742-65-0    |      |
| n-Octacosane (S) |  | 108 %                                                    |       | 50-150                    | 1  | 05/12/11 11:00           | 05/12/11 22:23 | 630-02-4      |      |
| o-Terphenyl (S)  |  | 98 %                                                     |       | 50-150                    | 1  | 05/12/11 11:00           | 05/12/11 22:23 | 84-15-1       |      |

## ANALYTICAL RESULTS

Project: ARCO #11060

Pace Project No.: 257594

| Sample: MW-1              |         | Lab ID: 257594004                                        |              | Collected: 05/10/11 12:45 |                | Received: 05/10/11 16:20 |            | Matrix: Water |  |
|---------------------------|---------|----------------------------------------------------------|--------------|---------------------------|----------------|--------------------------|------------|---------------|--|
| Parameters                | Results | Units                                                    | Report Limit | DF                        | Prepared       | Analyzed                 | CAS No.    | Qual          |  |
| 6010 MET ICP              |         | Analytical Method: EPA 6010 Preparation Method: EPA 3010 |              |                           |                |                          |            |               |  |
| Lead                      | ND      | ug/L                                                     | 10.0         | 1                         | 05/17/11 10:06 | 05/17/11 16:23           | 7439-92-1  |               |  |
| 8260 MSV                  |         | Analytical Method: EPA 5030B/8260                        |              |                           |                |                          |            |               |  |
| Benzene                   | 17.8    | ug/L                                                     | 1.0          | 1                         |                | 05/13/11 14:33           | 71-43-2    |               |  |
| Ethylbenzene              | 1.8     | ug/L                                                     | 1.0          | 1                         |                | 05/13/11 14:33           | 100-41-4   |               |  |
| Methyl-tert-butyl ether   | 2.5     | ug/L                                                     | 1.0          | 1                         |                | 05/13/11 14:33           | 1634-04-4  |               |  |
| Toluene                   | 6.6     | ug/L                                                     | 1.0          | 1                         |                | 05/13/11 14:33           | 108-88-3   |               |  |
| Xylene (Total)            | 10.9    | ug/L                                                     | 3.0          | 1                         |                | 05/13/11 14:33           | 1330-20-7  |               |  |
| 4-Bromofluorobenzene (S)  | 98      | %                                                        | 80-120       | 1                         |                | 05/13/11 14:33           | 460-00-4   |               |  |
| Dibromofluoromethane (S)  | 96      | %                                                        | 80-122       | 1                         |                | 05/13/11 14:33           | 1868-53-7  |               |  |
| 1,2-Dichloroethane-d4 (S) | 94      | %                                                        | 80-124       | 1                         |                | 05/13/11 14:33           | 17060-07-0 |               |  |
| Toluene-d8 (S)            | 100     | %                                                        | 80-123       | 1                         |                | 05/13/11 14:33           | 2037-26-5  |               |  |
| NWTPH-Gx MSV              |         | Analytical Method: NWTPH-Gx                              |              |                           |                |                          |            |               |  |
| Gasoline Range Organics   | 642     | ug/L                                                     | 50.0         | 1                         |                | 05/12/11 02:46           |            |               |  |
| 4-Bromofluorobenzene (S)  | 98      | %                                                        | 50-150       | 1                         |                | 05/12/11 02:46           | 460-00-4   |               |  |

| Sample: MW-5              |         | Lab ID: 257594005                                        |              | Collected: 05/10/11 13:10 |                | Received: 05/10/11 16:20 |            | Matrix: Water |  |
|---------------------------|---------|----------------------------------------------------------|--------------|---------------------------|----------------|--------------------------|------------|---------------|--|
| Parameters                | Results | Units                                                    | Report Limit | DF                        | Prepared       | Analyzed                 | CAS No.    | Qual          |  |
| NWTPH-Dx GCS              |         | Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 |              |                           |                |                          |            |               |  |
| Diesel Range              | 0.47    | mg/L                                                     | 0.079        | 1                         | 05/12/11 11:00 | 05/12/11 22:40           |            |               |  |
| Motor Oil Range           | ND      | mg/L                                                     | 0.40         | 1                         | 05/12/11 11:00 | 05/12/11 22:40           | 64742-65-0 |               |  |
| n-Octacosane (S)          | 110     | %                                                        | 50-150       | 1                         | 05/12/11 11:00 | 05/12/11 22:40           | 630-02-4   |               |  |
| o-Terphenyl (S)           | 98      | %                                                        | 50-150       | 1                         | 05/12/11 11:00 | 05/12/11 22:40           | 84-15-1    |               |  |
| 6010 MET ICP              |         | Analytical Method: EPA 6010 Preparation Method: EPA 3010 |              |                           |                |                          |            |               |  |
| Lead                      | ND      | ug/L                                                     | 10.0         | 1                         | 05/17/11 10:06 | 05/17/11 16:26           | 7439-92-1  |               |  |
| 8260 MSV                  |         | Analytical Method: EPA 5030B/8260                        |              |                           |                |                          |            |               |  |
| Benzene                   | 12.4    | ug/L                                                     | 1.0          | 1                         |                | 05/13/11 14:50           | 71-43-2    |               |  |
| Ethylbenzene              | 39.3    | ug/L                                                     | 1.0          | 1                         |                | 05/13/11 14:50           | 100-41-4   |               |  |
| Methyl-tert-butyl ether   | ND      | ug/L                                                     | 1.0          | 1                         |                | 05/13/11 14:50           | 1634-04-4  |               |  |
| Toluene                   | 4.1     | ug/L                                                     | 1.0          | 1                         |                | 05/13/11 14:50           | 108-88-3   |               |  |
| Xylene (Total)            | 25.5    | ug/L                                                     | 3.0          | 1                         |                | 05/13/11 14:50           | 1330-20-7  |               |  |
| 4-Bromofluorobenzene (S)  | 100     | %                                                        | 80-120       | 1                         |                | 05/13/11 14:50           | 460-00-4   |               |  |
| Dibromofluoromethane (S)  | 95      | %                                                        | 80-122       | 1                         |                | 05/13/11 14:50           | 1868-53-7  |               |  |
| 1,2-Dichloroethane-d4 (S) | 95      | %                                                        | 80-124       | 1                         |                | 05/13/11 14:50           | 17060-07-0 |               |  |
| Toluene-d8 (S)            | 101     | %                                                        | 80-123       | 1                         |                | 05/13/11 14:50           | 2037-26-5  |               |  |
| NWTPH-Gx MSV              |         | Analytical Method: NWTPH-Gx                              |              |                           |                |                          |            |               |  |
| Gasoline Range Organics   | 4710    | ug/L                                                     | 50.0         | 1                         |                | 05/12/11 03:03           |            |               |  |
| 4-Bromofluorobenzene (S)  | 107     | %                                                        | 50-150       | 1                         |                | 05/12/11 03:03           | 460-00-4   |               |  |

## ANALYTICAL RESULTS

Project: ARCO #11060

Pace Project No.: 257594

| Sample: MW-2              |           | Lab ID: 257594006                                        | Collected: 05/10/11 13:40 | Received: 05/10/11 16:20 | Matrix: Water  |                |            |      |
|---------------------------|-----------|----------------------------------------------------------|---------------------------|--------------------------|----------------|----------------|------------|------|
| Parameters                | Results   | Units                                                    | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>NWTPH-Dx GCS</b>       |           | Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 |                           |                          |                |                |            |      |
| Diesel Range              | 1.0 mg/L  |                                                          | 0.083                     | 1                        | 05/12/11 11:00 | 05/12/11 22:56 |            |      |
| Motor Oil Range           | 2.0 mg/L  |                                                          | 0.42                      | 1                        | 05/12/11 11:00 | 05/12/11 22:56 | 64742-65-0 |      |
| n-Octacosane (S)          | 107 %     |                                                          | 50-150                    | 1                        | 05/12/11 11:00 | 05/12/11 22:56 | 630-02-4   |      |
| o-Terphenyl (S)           | 96 %      |                                                          | 50-150                    | 1                        | 05/12/11 11:00 | 05/12/11 22:56 | 84-15-1    |      |
| <b>6010 MET ICP</b>       |           | Analytical Method: EPA 6010 Preparation Method: EPA 3010 |                           |                          |                |                |            |      |
| Lead                      | ND ug/L   |                                                          | 10.0                      | 1                        | 05/17/11 10:06 | 05/17/11 16:29 | 7439-92-1  |      |
| <b>8260 MSV</b>           |           | Analytical Method: EPA 5030B/8260                        |                           |                          |                |                |            |      |
| Benzene                   | 281 ug/L  |                                                          | 1.0                       | 1                        |                | 05/13/11 15:07 | 71-43-2    |      |
| Ethylbenzene              | 69.9 ug/L |                                                          | 1.0                       | 1                        |                | 05/13/11 15:07 | 100-41-4   |      |
| Methyl-tert-butyl ether   | 7.3 ug/L  |                                                          | 1.0                       | 1                        |                | 05/13/11 15:07 | 1634-04-4  |      |
| Toluene                   | 4.2 ug/L  |                                                          | 1.0                       | 1                        |                | 05/13/11 15:07 | 108-88-3   |      |
| Xylene (Total)            | 49.9 ug/L |                                                          | 3.0                       | 1                        |                | 05/13/11 15:07 | 1330-20-7  |      |
| 4-Bromofluorobenzene (S)  | 97 %      |                                                          | 80-120                    | 1                        |                | 05/13/11 15:07 | 460-00-4   |      |
| Dibromofluoromethane (S)  | 82 %      |                                                          | 80-122                    | 1                        |                | 05/13/11 15:07 | 1868-53-7  |      |
| 1,2-Dichloroethane-d4 (S) | 92 %      |                                                          | 80-124                    | 1                        |                | 05/13/11 15:07 | 17060-07-0 |      |
| Toluene-d8 (S)            | 100 %     |                                                          | 80-123                    | 1                        |                | 05/13/11 15:07 | 2037-26-5  |      |
| <b>NWTPH-Gx MSV</b>       |           | Analytical Method: NWTPH-Gx                              |                           |                          |                |                |            |      |
| Gasoline Range Organics   | 5520 ug/L |                                                          | 50.0                      | 1                        |                | 05/12/11 04:47 |            |      |
| 4-Bromofluorobenzene (S)  | 95 %      |                                                          | 50-150                    | 1                        |                | 05/12/11 04:47 | 460-00-4   |      |

| Sample: MW-3              |           | Lab ID: 257594007                                        | Collected: 05/10/11 14:10 | Received: 05/10/11 16:20 | Matrix: Water  |                |            |      |
|---------------------------|-----------|----------------------------------------------------------|---------------------------|--------------------------|----------------|----------------|------------|------|
| Parameters                | Results   | Units                                                    | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>NWTPH-Dx GCS</b>       |           | Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 |                           |                          |                |                |            |      |
| Diesel Range              | 0.82 mg/L |                                                          | 0.082                     | 1                        | 05/12/11 11:00 | 05/12/11 23:45 |            |      |
| Motor Oil Range           | 0.84 mg/L |                                                          | 0.41                      | 1                        | 05/12/11 11:00 | 05/12/11 23:45 | 64742-65-0 |      |
| n-Octacosane (S)          | 110 %     |                                                          | 50-150                    | 1                        | 05/12/11 11:00 | 05/12/11 23:45 | 630-02-4   |      |
| o-Terphenyl (S)           | 98 %      |                                                          | 50-150                    | 1                        | 05/12/11 11:00 | 05/12/11 23:45 | 84-15-1    |      |
| <b>6010 MET ICP</b>       |           | Analytical Method: EPA 6010 Preparation Method: EPA 3010 |                           |                          |                |                |            |      |
| Lead                      | ND ug/L   |                                                          | 10.0                      | 1                        | 05/17/11 10:06 | 05/17/11 16:38 | 7439-92-1  |      |
| <b>8260 MSV</b>           |           | Analytical Method: EPA 5030B/8260                        |                           |                          |                |                |            |      |
| Benzene                   | 33.6 ug/L |                                                          | 1.0                       | 1                        |                | 05/13/11 15:24 | 71-43-2    |      |
| Ethylbenzene              | 57.5 ug/L |                                                          | 1.0                       | 1                        |                | 05/13/11 15:24 | 100-41-4   |      |
| Methyl-tert-butyl ether   | 2.4 ug/L  |                                                          | 1.0                       | 1                        |                | 05/13/11 15:24 | 1634-04-4  |      |
| Toluene                   | 1.2 ug/L  |                                                          | 1.0                       | 1                        |                | 05/13/11 15:24 | 108-88-3   |      |
| Xylene (Total)            | 7.9 ug/L  |                                                          | 3.0                       | 1                        |                | 05/13/11 15:24 | 1330-20-7  |      |
| 4-Bromofluorobenzene (S)  | 105 %     |                                                          | 80-120                    | 1                        |                | 05/13/11 15:24 | 460-00-4   |      |
| Dibromofluoromethane (S)  | 87 %      |                                                          | 80-122                    | 1                        |                | 05/13/11 15:24 | 1868-53-7  |      |
| 1,2-Dichloroethane-d4 (S) | 94 %      |                                                          | 80-124                    | 1                        |                | 05/13/11 15:24 | 17060-07-0 |      |

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## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: ARCO #11060

Pace Project No.: 257594

|                          |  |                                   |       |                           |    |                          |                |               |      |
|--------------------------|--|-----------------------------------|-------|---------------------------|----|--------------------------|----------------|---------------|------|
| Sample: MW-3             |  | Lab ID: 257594007                 |       | Collected: 05/10/11 14:10 |    | Received: 05/10/11 16:20 |                | Matrix: Water |      |
| Parameters               |  | Results                           | Units | Report Limit              | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| 8260 MSV                 |  | Analytical Method: EPA 5030B/8260 |       |                           |    |                          |                |               |      |
| Toluene-d8 (S)           |  | 100 %                             |       | 80-123                    | 1  |                          | 05/13/11 15:24 | 2037-26-5     |      |
| NWTPH-Gx MSV             |  | Analytical Method: NWTPH-Gx       |       |                           |    |                          |                |               |      |
| Gasoline Range Organics  |  | 3280 ug/L                         |       | 50.0                      | 1  |                          | 05/12/11 03:20 |               |      |
| 4-Bromofluorobenzene (S) |  | 104 %                             |       | 50-150                    | 1  |                          | 05/12/11 03:20 | 460-00-4      |      |

| Sample: DUP               |           | Lab ID: 257594008                                        |              | Collected: 05/10/11 00:00 |                | Received: 05/10/11 16:20 |            | Matrix: Water |  |
|---------------------------|-----------|----------------------------------------------------------|--------------|---------------------------|----------------|--------------------------|------------|---------------|--|
| Parameters                | Results   | Units                                                    | Report Limit | DF                        | Prepared       | Analyzed                 | CAS No.    | Qual          |  |
| NWTPH-Dx GCS              |           | Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 |              |                           |                |                          |            |               |  |
| Diesel Range              | 0.85 mg/L |                                                          | 0.083        | 1                         | 05/12/11 11:00 | 05/13/11 00:01           |            |               |  |
| Motor Oil Range           | 1.6 mg/L  |                                                          | 0.42         | 1                         | 05/12/11 11:00 | 05/13/11 00:01           | 64742-65-0 |               |  |
| n-Octacosane (S)          | 104 %     |                                                          | 50-150       | 1                         | 05/12/11 11:00 | 05/13/11 00:01           | 630-02-4   |               |  |
| o-Terphenyl (S)           | 92 %      |                                                          | 50-150       | 1                         | 05/12/11 11:00 | 05/13/11 00:01           | 84-15-1    |               |  |
| 6010 MET ICP              |           | Analytical Method: EPA 6010 Preparation Method: EPA 3010 |              |                           |                |                          |            |               |  |
| Lead                      | ND ug/L   |                                                          | 10.0         | 1                         | 05/17/11 10:06 | 05/17/11 16:41           | 7439-92-1  |               |  |
| 8260 MSV                  |           | Analytical Method: EPA 5030B/8260                        |              |                           |                |                          |            |               |  |
| Benzene                   | 156 ug/L  |                                                          | 1.0          | 1                         |                | 05/13/11 15:41           | 71-43-2    |               |  |
| Ethylbenzene              | 76.3 ug/L |                                                          | 1.0          | 1                         |                | 05/13/11 15:41           | 100-41-4   |               |  |
| Methyl-tert-butyl ether   | 5.6 ug/L  |                                                          | 1.0          | 1                         |                | 05/13/11 15:41           | 1634-04-4  |               |  |
| Toluene                   | 3.9 ug/L  |                                                          | 1.0          | 1                         |                | 05/13/11 15:41           | 108-88-3   |               |  |
| Xylene (Total)            | 53.2 ug/L |                                                          | 3.0          | 1                         |                | 05/13/11 15:41           | 1330-20-7  |               |  |
| 4-Bromofluorobenzene (S)  | 99 %      |                                                          | 80-120       | 1                         |                | 05/13/11 15:41           | 460-00-4   |               |  |
| Dibromofluoromethane (S)  | 85 %      |                                                          | 80-122       | 1                         |                | 05/13/11 15:41           | 1868-53-7  |               |  |
| 1,2-Dichloroethane-d4 (S) | 94 %      |                                                          | 80-124       | 1                         |                | 05/13/11 15:41           | 17060-07-0 |               |  |
| Toluene-d8 (S)            | 101 %     |                                                          | 80-123       | 1                         |                | 05/13/11 15:41           | 2037-26-5  |               |  |
| NWTPH-Gx MSV              |           | Analytical Method: NWTPH-Gx                              |              |                           |                |                          |            |               |  |
| Gasoline Range Organics   | 5000 ug/L |                                                          | 50.0         | 1                         |                | 05/12/11 03:54           |            |               |  |
| 4-Bromofluorobenzene (S)  | 94 %      |                                                          | 50-150       | 1                         |                | 05/12/11 03:54           | 460-00-4   |               |  |

|                         |  |                                   |       |                           |    |                          |                |               |      |
|-------------------------|--|-----------------------------------|-------|---------------------------|----|--------------------------|----------------|---------------|------|
| Sample: Trip Blank      |  | Lab ID: 257594009                 |       | Collected: 05/10/11 00:00 |    | Received: 05/10/11 16:20 |                | Matrix: Water |      |
| Parameters              |  | Results                           | Units | Report Limit              | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| 8260 MSV                |  | Analytical Method: EPA 5030B/8260 |       |                           |    |                          |                |               |      |
| Benzene                 |  | ND ug/L                           |       | 1.0                       | 1  |                          | 05/11/11 22:30 | 71-43-2       |      |
| Ethylbenzene            |  | ND ug/L                           |       | 1.0                       | 1  |                          | 05/11/11 22:30 | 100-41-4      |      |
| Methyl-tert-butyl ether |  | ND ug/L                           |       | 1.0                       | 1  |                          | 05/11/11 22:30 | 1634-04-4     |      |
| Toluene                 |  | ND ug/L                           |       | 1.0                       | 1  |                          | 05/11/11 22:30 | 108-88-3      |      |
| Xylene (Total)          |  | ND ug/L                           |       | 3.0                       | 1  |                          | 05/11/11 22:30 | 1330-20-7     |      |

Date: 05/23/2011 04:56 PM

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: ARCO #11060

Pace Project No.: 257594

| Sample: Trip Blank        |         | Lab ID: 257594009                 | Collected: 05/10/11 00:00 | Received: 05/10/11 16:20 | Matrix: Water |                |            |      |
|---------------------------|---------|-----------------------------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters                | Results | Units                             | Report Limit              | DF                       | Prepared      | Analyzed       | CAS No.    | Qual |
| <b>8260 MSV</b>           |         | Analytical Method: EPA 5030B/8260 |                           |                          |               |                |            |      |
| 4-Bromofluorobenzene (S)  | 97 %    |                                   | 80-120                    | 1                        |               | 05/11/11 22:30 | 460-00-4   |      |
| Dibromofluoromethane (S)  | 94 %    |                                   | 80-122                    | 1                        |               | 05/11/11 22:30 | 1868-53-7  |      |
| 1,2-Dichloroethane-d4 (S) | 94 %    |                                   | 80-124                    | 1                        |               | 05/11/11 22:30 | 17060-07-0 |      |
| Toluene-d8 (S)            | 98 %    |                                   | 80-123                    | 1                        |               | 05/11/11 22:30 | 2037-26-5  |      |
| <b>NWTPH-Gx MSV</b>       |         | Analytical Method: NWTPH-Gx       |                           |                          |               |                |            |      |
| Gasoline Range Organics   | ND ug/L |                                   | 50.0                      | 1                        |               | 05/11/11 22:30 |            |      |
| 4-Bromofluorobenzene (S)  | 97 %    |                                   | 50-150                    | 1                        |               | 05/11/11 22:30 | 460-00-4   |      |

## QUALITY CONTROL DATA

Project: ARCO #11060

Pace Project No.: 257594

|                         |                                                                                        |                       |              |
|-------------------------|----------------------------------------------------------------------------------------|-----------------------|--------------|
| QC Batch:               | OEXT/3694                                                                              | Analysis Method:      | NWTPH-Dx     |
| QC Batch Method:        | EPA 3510                                                                               | Analysis Description: | NWTPH-Dx GCS |
| Associated Lab Samples: | 257594001, 257594002, 257594003, 257594004, 257594005, 257594006, 257594007, 257594008 |                       |              |

METHOD BLANK: 69784 Matrix: Water

Associated Lab Samples: 257594001, 257594002, 257594003, 257594004, 257594005, 257594006, 257594007, 257594008

| Parameter        | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|------------------|-------|--------------|-----------------|----------------|------------|
| Diesel Range     | mg/L  | ND           | 0.080           | 05/12/11 20:45 |            |
| Motor Oil Range  | mg/L  | ND           | 0.40            | 05/12/11 20:45 |            |
| n-Octacosane (S) | %     | 107          | 50-150          | 05/12/11 20:45 |            |
| o-Terphenyl (S)  | %     | 91           | 50-150          | 05/12/11 20:45 |            |

LABORATORY CONTROL SAMPLE: 69785

| Parameter        | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------|-------|-------------|------------|-----------|--------------|------------|
| Diesel Range     | mg/L  | 5           | 4.5        | 90        | 51-147       |            |
| Motor Oil Range  | mg/L  | 5           | 5.2        | 103       | 20-160       |            |
| n-Octacosane (S) | %     |             |            | 109       | 50-150       |            |
| o-Terphenyl (S)  | %     |             |            | 112       | 50-150       |            |

SAMPLE DUPLICATE: 69786

| Parameter        | Units | 257594003 Result | Dup Result | RPD | Qualifiers |
|------------------|-------|------------------|------------|-----|------------|
| Diesel Range     | mg/L  | 0.18             | 0.16       | 10  |            |
| Motor Oil Range  | mg/L  | ND               | .25J       |     |            |
| n-Octacosane (S) | %     | 110              | 111        | .9  |            |
| o-Terphenyl (S)  | %     | 95               | 97         | .1  |            |

## QUALITY CONTROL DATA

Project: ARCO #11060

Pace Project No.: 257594

|                         |                                                                                        |                       |          |
|-------------------------|----------------------------------------------------------------------------------------|-----------------------|----------|
| QC Batch:               | MPRP/2219                                                                              | Analysis Method:      | EPA 6010 |
| QC Batch Method:        | EPA 3010                                                                               | Analysis Description: | 6010 MET |
| Associated Lab Samples: | 257594001, 257594002, 257594003, 257594004, 257594005, 257594006, 257594007, 257594008 |                       |          |

|                         |                                                                                        |         |       |
|-------------------------|----------------------------------------------------------------------------------------|---------|-------|
| METHOD BLANK:           | 70400                                                                                  | Matrix: | Water |
| Associated Lab Samples: | 257594001, 257594002, 257594003, 257594004, 257594005, 257594006, 257594007, 257594008 |         |       |

| Parameter | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Lead      | ug/L  | ND           | 10.0            | 05/17/11 16:02 |            |

LABORATORY CONTROL SAMPLE: 70401

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Lead      | ug/L  | 500         | 559        | 112       | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 70402 70403

| Parameter | Units | 257594001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|-----------|-------|------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|------|
| Lead      | ug/L  | ND               | 500            | 500             | 539       | 533        | 106      | 105       | 75-125       | 1   |      |

## QUALITY CONTROL DATA

Project: ARCO #11060

Pace Project No.: 257594

|                         |                                            |                       |                            |
|-------------------------|--------------------------------------------|-----------------------|----------------------------|
| QC Batch:               | MSV/4402                                   | Analysis Method:      | EPA 5030B/8260             |
| QC Batch Method:        | EPA 5030B/8260                             | Analysis Description: | 8260 MSV Water 10 mL Purge |
| Associated Lab Samples: | 257594001, 257594002, 257594003, 257594009 |                       |                            |

METHOD BLANK: 69658 Matrix: Water

Associated Lab Samples: 257594001, 257594002, 257594003, 257594009

| Parameter                 | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| Benzene                   | ug/L  | ND           | 1.0             | 05/11/11 21:56 |            |
| Ethylbenzene              | ug/L  | ND           | 1.0             | 05/11/11 21:56 |            |
| Methyl-tert-butyl ether   | ug/L  | ND           | 1.0             | 05/11/11 21:56 |            |
| Toluene                   | ug/L  | ND           | 1.0             | 05/11/11 21:56 |            |
| Xylene (Total)            | ug/L  | ND           | 3.0             | 05/11/11 21:56 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 94           | 80-124          | 05/11/11 21:56 |            |
| 4-Bromofluorobenzene (S)  | %     | 99           | 80-120          | 05/11/11 21:56 |            |
| Dibromofluoromethane (S)  | %     | 95           | 80-122          | 05/11/11 21:56 |            |
| Toluene-d8 (S)            | %     | 98           | 80-123          | 05/11/11 21:56 |            |

LABORATORY CONTROL SAMPLE: 69659

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| Benzene                   | ug/L  | 20          | 18.7       | 93        | 76-127       |            |
| Ethylbenzene              | ug/L  | 20          | 19.6       | 98        | 72-125       |            |
| Methyl-tert-butyl ether   | ug/L  | 20          | 20.8       | 104       | 58-145       |            |
| Toluene                   | ug/L  | 20          | 19.7       | 98        | 69-125       |            |
| Xylene (Total)            | ug/L  | 60          | 60.4       | 101       | 74-124       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 96        | 80-124       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 98        | 80-120       |            |
| Dibromofluoromethane (S)  | %     |             |            | 96        | 80-122       |            |
| Toluene-d8 (S)            | %     |             |            | 98        | 80-123       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 69768 69769

| Parameter                 | Units | 257564004 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|---------------------------|-------|------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|------|
| Benzene                   | ug/L  | ND               | 20             | 20              | 20.2      | 18.5       | 100      | 92        | 75-124       | 9   |      |
| Ethylbenzene              | ug/L  | ND               | 20             | 20              | 20.7      | 19.2       | 102      | 94        | 76-124       | 7   |      |
| Methyl-tert-butyl ether   | ug/L  | ND               | 20             | 20              | 21.1      | 19.2       | 105      | 96        | 72-130       | 9   |      |
| Toluene                   | ug/L  | ND               | 20             | 20              | 20.6      | 19.2       | 100      | 93        | 75-124       | 7   |      |
| Xylene (Total)            | ug/L  | ND               | 60             | 60              | 63.7      | 59.2       | 103      | 96        | 76-123       | 7   |      |
| 1,2-Dichloroethane-d4 (S) | %     |                  |                |                 |           |            | 95       | 95        | 80-124       |     |      |
| 4-Bromofluorobenzene (S)  | %     |                  |                |                 |           |            | 98       | 97        | 80-120       |     |      |
| Dibromofluoromethane (S)  | %     |                  |                |                 |           |            | 96       | 96        | 80-122       |     |      |
| Toluene-d8 (S)            | %     |                  |                |                 |           |            | 98       | 98        | 80-123       |     |      |

## QUALITY CONTROL DATA

Project: ARCO #11060

Pace Project No.: 257594

QC Batch: MSV/4419 Analysis Method: EPA 5030B/8260  
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge  
Associated Lab Samples: 257594004, 257594005, 257594006, 257594007, 257594008

METHOD BLANK: 70014 Matrix: Water  
Associated Lab Samples: 257594004, 257594005, 257594006, 257594007, 257594008

| Parameter                 | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| Benzene                   | ug/L  | ND           | 1.0             | 05/13/11 11:27 |            |
| Ethylbenzene              | ug/L  | ND           | 1.0             | 05/13/11 11:27 |            |
| Methyl-tert-butyl ether   | ug/L  | ND           | 1.0             | 05/13/11 11:27 |            |
| Toluene                   | ug/L  | ND           | 1.0             | 05/13/11 11:27 |            |
| Xylene (Total)            | ug/L  | ND           | 3.0             | 05/13/11 11:27 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 93           | 80-124          | 05/13/11 11:27 |            |
| 4-Bromofluorobenzene (S)  | %     | 100          | 80-120          | 05/13/11 11:27 |            |
| Dibromofluoromethane (S)  | %     | 95           | 80-122          | 05/13/11 11:27 |            |
| Toluene-d8 (S)            | %     | 99           | 80-123          | 05/13/11 11:27 |            |

LABORATORY CONTROL SAMPLE: 70015

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| Benzene                   | ug/L  | 20          | 18.3       | 91        | 76-127       |            |
| Ethylbenzene              | ug/L  | 20          | 18.9       | 94        | 72-125       |            |
| Methyl-tert-butyl ether   | ug/L  | 20          | 18.8       | 94        | 58-145       |            |
| Toluene                   | ug/L  | 20          | 18.5       | 92        | 69-125       |            |
| Xylene (Total)            | ug/L  | 60          | 57.1       | 95        | 74-124       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 92        | 80-124       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 98        | 80-120       |            |
| Dibromofluoromethane (S)  | %     |             |            | 97        | 80-122       |            |
| Toluene-d8 (S)            | %     |             |            | 99        | 80-123       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 70016 70017

| Parameter                 | Units | 257594004 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|---------------------------|-------|------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|------|
| Benzene                   | ug/L  | 17.8             | 20             | 20              | 37.8      | 39.0       | 100      | 106       | 75-124       | 3   |      |
| Ethylbenzene              | ug/L  | 1.8              | 20             | 20              | 22.1      | 21.9       | 102      | 101       | 76-124       | 1   |      |
| Methyl-tert-butyl ether   | ug/L  | 2.5              | 20             | 20              | 19.4      | 20.8       | 84       | 91        | 72-130       | 7   |      |
| Toluene                   | ug/L  | 6.6              | 20             | 20              | 27.0      | 27.4       | 102      | 104       | 75-124       | 1   |      |
| Xylene (Total)            | ug/L  | 10.9             | 60             | 60              | 69.9      | 70.7       | 98       | 100       | 76-123       | 1   |      |
| 1,2-Dichloroethane-d4 (S) | %     |                  |                |                 |           |            | 89       | 92        | 80-124       |     |      |
| 4-Bromofluorobenzene (S)  | %     |                  |                |                 |           |            | 99       | 99        | 80-120       |     |      |
| Dibromofluoromethane (S)  | %     |                  |                |                 |           |            | 97       | 98        | 80-122       |     |      |
| Toluene-d8 (S)            | %     |                  |                |                 |           |            | 102      | 101       | 80-123       |     |      |

## QUALITY CONTROL DATA

Project: ARCO #11060

Pace Project No.: 257594

|                         |                                                                                        |                       |                    |
|-------------------------|----------------------------------------------------------------------------------------|-----------------------|--------------------|
| QC Batch:               | MSV/4401                                                                               | Analysis Method:      | NWTPH-Gx           |
| QC Batch Method:        | NWTPH-Gx                                                                               | Analysis Description: | NWTPH-Gx MSV Water |
| Associated Lab Samples: | 257594001, 257594002, 257594004, 257594005, 257594006, 257594007, 257594008, 257594009 |                       |                    |

|                         |                                                                                        |         |       |
|-------------------------|----------------------------------------------------------------------------------------|---------|-------|
| METHOD BLANK:           | 69655                                                                                  | Matrix: | Water |
| Associated Lab Samples: | 257594001, 257594002, 257594004, 257594005, 257594006, 257594007, 257594008, 257594009 |         |       |

| Parameter                | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|--------------------------|-------|--------------|-----------------|----------------|------------|
| Gasoline Range Organics  | ug/L  | ND           | 50.0            | 05/11/11 21:56 |            |
| 4-Bromofluorobenzene (S) | %     | 99           | 50-150          | 05/11/11 21:56 |            |

LABORATORY CONTROL SAMPLE: 69656

| Parameter                | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------|-------|-------------|------------|-----------|--------------|------------|
| Gasoline Range Organics  | ug/L  | 500         | 451        | 90        | 50-163       |            |
| 4-Bromofluorobenzene (S) | %     |             |            | 99        | 50-150       |            |

SAMPLE DUPLICATE: 69755

| Parameter                | Units | 257564002 Result | Dup Result | RPD | Qualifiers |
|--------------------------|-------|------------------|------------|-----|------------|
| Gasoline Range Organics  | ug/L  | ND               | 29.2J      |     |            |
| 4-Bromofluorobenzene (S) | %     | 98               | 99         | .7  |            |

SAMPLE DUPLICATE: 69756

| Parameter                | Units | 257594001 Result | Dup Result | RPD | Qualifiers |
|--------------------------|-------|------------------|------------|-----|------------|
| Gasoline Range Organics  | ug/L  | ND               | 21.9J      |     |            |
| 4-Bromofluorobenzene (S) | %     | 99               | 99         | .01 |            |

## QUALITY CONTROL DATA

Project: ARCO #11060

Pace Project No.: 257594

QC Batch: MSV/4454

Analysis Method: NWTPH-Gx

QC Batch Method: NWTPH-Gx

Analysis Description: NWTPH-Gx MSV Water

Associated Lab Samples: 257594003

METHOD BLANK: 70490

Matrix: Water

Associated Lab Samples: 257594003

| Parameter                | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|--------------------------|-------|--------------|-----------------|----------------|------------|
| Gasoline Range Organics  | ug/L  | ND           | 50.0            | 05/17/11 22:39 |            |
| 4-Bromofluorobenzene (S) | %     | 102          | 50-150          | 05/17/11 22:39 |            |

LABORATORY CONTROL SAMPLE: 70491

| Parameter                | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------|-------|-------------|------------|-----------|--------------|------------|
| Gasoline Range Organics  | ug/L  | 500         | 503        | 101       | 50-163       |            |
| 4-Bromofluorobenzene (S) | %     |             |            | 101       | 50-150       |            |

SAMPLE DUPLICATE: 70535

| Parameter                | Units | 257520004 Result | Dup Result | RPD | Qualifiers |
|--------------------------|-------|------------------|------------|-----|------------|
| Gasoline Range Organics  | ug/L  | 109              | 123        | 12  |            |
| 4-Bromofluorobenzene (S) | %     | 101              | 101        | .5  |            |

SAMPLE DUPLICATE: 70536

| Parameter                | Units | 257564006 Result | Dup Result | RPD | Qualifiers |
|--------------------------|-------|------------------|------------|-----|------------|
| Gasoline Range Organics  | ug/L  | 58.4             | 67.3       | 14  |            |
| 4-Bromofluorobenzene (S) | %     | 101              | 100        | 1   |            |



## QUALIFIERS

Project: ARCO #11060

Pace Project No.: 257594

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel Clean-Up

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

### LABORATORIES

PASI-S Pace Analytical Services - Seattle

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ARCO #11060

Pace Project No.: 257594

| Lab ID    | Sample ID  | QC Batch Method | QC Batch  | Analytical Method | Analytical Batch |
|-----------|------------|-----------------|-----------|-------------------|------------------|
| 257594001 | MW-9       | EPA 3510        | OEXT/3694 | NWTPH-Dx          | GCSV/2487        |
| 257594002 | GMW-1      | EPA 3510        | OEXT/3694 | NWTPH-Dx          | GCSV/2487        |
| 257594003 | MW-6       | EPA 3510        | OEXT/3694 | NWTPH-Dx          | GCSV/2487        |
| 257594004 | MW-1       | EPA 3510        | OEXT/3694 | NWTPH-Dx          | GCSV/2487        |
| 257594005 | MW-5       | EPA 3510        | OEXT/3694 | NWTPH-Dx          | GCSV/2487        |
| 257594006 | MW-2       | EPA 3510        | OEXT/3694 | NWTPH-Dx          | GCSV/2487        |
| 257594007 | MW-3       | EPA 3510        | OEXT/3694 | NWTPH-Dx          | GCSV/2487        |
| 257594008 | DUP        | EPA 3510        | OEXT/3694 | NWTPH-Dx          | GCSV/2487        |
| 257594001 | MW-9       | EPA 3010        | MPRP/2219 | EPA 6010          | ICP/2126         |
| 257594002 | GMW-1      | EPA 3010        | MPRP/2219 | EPA 6010          | ICP/2126         |
| 257594003 | MW-6       | EPA 3010        | MPRP/2219 | EPA 6010          | ICP/2126         |
| 257594004 | MW-1       | EPA 3010        | MPRP/2219 | EPA 6010          | ICP/2126         |
| 257594005 | MW-5       | EPA 3010        | MPRP/2219 | EPA 6010          | ICP/2126         |
| 257594006 | MW-2       | EPA 3010        | MPRP/2219 | EPA 6010          | ICP/2126         |
| 257594007 | MW-3       | EPA 3010        | MPRP/2219 | EPA 6010          | ICP/2126         |
| 257594008 | DUP        | EPA 3010        | MPRP/2219 | EPA 6010          | ICP/2126         |
| 257594001 | MW-9       | EPA 5030B/8260  | MSV/4402  |                   |                  |
| 257594002 | GMW-1      | EPA 5030B/8260  | MSV/4402  |                   |                  |
| 257594003 | MW-6       | EPA 5030B/8260  | MSV/4402  |                   |                  |
| 257594004 | MW-1       | EPA 5030B/8260  | MSV/4419  |                   |                  |
| 257594005 | MW-5       | EPA 5030B/8260  | MSV/4419  |                   |                  |
| 257594006 | MW-2       | EPA 5030B/8260  | MSV/4419  |                   |                  |
| 257594007 | MW-3       | EPA 5030B/8260  | MSV/4419  |                   |                  |
| 257594008 | DUP        | EPA 5030B/8260  | MSV/4419  |                   |                  |
| 257594009 | Trip Blank | EPA 5030B/8260  | MSV/4402  |                   |                  |
| 257594001 | MW-9       | NWTPH-Gx        | MSV/4401  |                   |                  |
| 257594002 | GMW-1      | NWTPH-Gx        | MSV/4401  |                   |                  |
| 257594003 | MW-6       | NWTPH-Gx        | MSV/4454  |                   |                  |
| 257594004 | MW-1       | NWTPH-Gx        | MSV/4401  |                   |                  |
| 257594005 | MW-5       | NWTPH-Gx        | MSV/4401  |                   |                  |
| 257594006 | MW-2       | NWTPH-Gx        | MSV/4401  |                   |                  |
| 257594007 | MW-3       | NWTPH-Gx        | MSV/4401  |                   |                  |
| 257594008 | DUP        | NWTPH-Gx        | MSV/4401  |                   |                  |
| 257594009 | Trip Blank | NWTPH-Gx        | MSV/4401  |                   |                  |





# Sample Container Count

257594

CLIENT:

Arcadis



COC PAGE

1 of 1

COC ID#

1467721

| Sample Line Item | VG9H | AG1H            | AG1U | BG1H | BP1U | BP2U | BP3U | BP2N | BP2S | WGFU | WGKU | BP3N            | Comments        |
|------------------|------|-----------------|------|------|------|------|------|------|------|------|------|-----------------|-----------------|
| 1                | 6    | 2 <sup>22</sup> |      |      |      |      |      |      |      |      |      | 1 <sup>22</sup> |                 |
| 2                | ↓    | ↓               |      |      |      |      |      |      |      |      |      | ↓               |                 |
| 3                |      | 3               |      |      |      |      |      |      |      |      |      | ↓               |                 |
| 4                |      | 2               |      |      |      |      |      |      |      |      |      | ↓               |                 |
| 5                |      | ↓               |      |      |      |      |      |      |      |      |      | ↓               |                 |
| 6                |      | ↓               |      |      |      |      |      |      |      |      |      | ↓               |                 |
| 7                |      | ↓               |      |      |      |      |      |      |      |      |      | ↓               |                 |
| 8                | ↓    | ↓               |      |      |      |      |      |      |      |      |      | ↓               |                 |
| 9                | 4    |                 |      |      |      |      |      |      |      |      |      |                 |                 |
| 10               |      |                 |      |      |      |      |      |      |      |      |      |                 |                 |
| 11               |      |                 |      |      |      |      |      |      |      |      |      |                 |                 |
| 12               |      |                 |      |      |      |      |      |      |      |      |      |                 | Trip Blank? Yes |

|      |                                |  |      |                              |      |                                        |
|------|--------------------------------|--|------|------------------------------|------|----------------------------------------|
| AG1H | 1 liter HCL amber glass        |  | BP2S | 500mL H2SO4 plastic          | JGFU | 4oz unpreserved amber wide             |
| AG1U | 1liter unpreserved amber glass |  | BP2U | 500mL unpreserved plastic    | R    | terra core kit                         |
| AG2S | 500mL H2SO4 amber glass        |  | BP2Z | 500mL NaOH, Zn Ac            | U    | Summa Can                              |
| AG2U | 500mL unpreserved amber glass  |  | BP3C | 250mL NaOH plastic           | VG9H | 40mL HCL clear vial                    |
| AG3S | 250mL H2SO4 amber glass        |  | BP3N | 250mL HNO3 plastic           | VG9T | 40mL Na Thio. clear vial               |
| BG1H | 1 liter HCL clear glass        |  | BP3S | 250mL H2SO4 plastic          | VG9U | 40mL unpreserved clear vial            |
| BG1U | 1 liter unpreserved glass      |  | BP3U | 250mL unpreserved plastic    | VG9W | 40mL glass vial preweighted (EPA 5035) |
| BP1N | 1 liter HNO3 plastic           |  | DG9B | 40mL Na Bisulfate amber vial | VSG  | Headspace septa vial & HCL             |
| BP1S | 1 liter H2SO4 plastic          |  | DG9H | 40mL HCL amber vial          | WGFU | 4oz clear soil jar                     |
| BP1U | 1 liter unpreserved plastic    |  | DG9M | 40mL MeOH clear vial         | WGFU | 4oz wide jar w/hexane wipe             |
| BP1Z | 1 liter NaOH, Zn, Ac           |  | DG9T | 40mL Na Thio amber vial      | ZPLC | Ziploc Bag                             |
| BP2N | 500mL HNO3 plastic             |  | DG9U | 40mL unpreserved amber vial  |      |                                        |
| BP2O | 500mL NaOH plastic             |  | I    | Wipe/Swab                    |      |                                        |

**Sample Condition Upon Receipt**

257594

Client Name: Arcadis

Project # \_\_\_\_\_

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace Other \_\_\_\_\_

Tracking #: \_\_\_\_\_

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☐ NoPacking Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other \_\_\_\_\_ Temp. Blank Yes ☒ NoThermometer Used 132013 or 101731992 or 226099 Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begunCooler Temperature 0.9°C, 8.6°C, 13.8°C Biological Tissue is Frozen: Yes NoTemp should be above freezing  $\leq 6^{\circ}\text{C}$ 

Comments:

Date and Initials of person examining contents: 05/11/11 CW

|                                                                                            |                                                                                       |     |
|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----|
| Chain of Custody Present:                                                                  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1.  |
| Chain of Custody Filled Out:                                                               | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2.  |
| Chain of Custody Relinquished:                                                             | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3.  |
| Sampler Name & Signature on COC:                                                           | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4.  |
| Samples Arrived within Hold Time:                                                          | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5.  |
| Short Hold Time Analysis (<72hr):                                                          | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 6.  |
| Rush Turn Around Time Requested:                                                           | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 7.  |
| Follow Up / Hold Analysis Requested:                                                       | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8.  |
| Sufficient Volume:                                                                         | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9.  |
| Correct Containers Used:                                                                   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10. |
| -Pace Containers Used:                                                                     | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |     |
| Containers Intact:                                                                         | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 11. |
| Filtered volume received for Dissolved tests                                               | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12. |
| Sample Labels match COC:                                                                   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13. |
| -Includes date/time/ID/Analysis Matrix:                                                    |                                                                                       |     |
| All containers needing preservation have been checked.                                     | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 14. |
| All containers needing preservation are found to be in compliance with EPA recommendation. | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |     |
| Exceptions: VOA, coliform, TOC, O&G                                                        |                                                                                       |     |
| Samples checked for dechlorination:                                                        | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 15. |
| Headspace in VOA Vials (>6mm):                                                             | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 16. |
| Trip Blanks Present:                                                                       | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 17. |
| Trip Blank Custody Seals Present                                                           | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |     |
| Pace Trip Blank Lot # (if purchased):                                                      |                                                                                       |     |

**Client Notification/ Resolution:**

Field Data Required? Y / N

Person Contacted: Alan Kahal Date/Time: 05/11/11 11:21

Comments/ Resolution:

Alan Kahal Confirmed Silica Gel is not needed on these Drx Samples. RSM

Project Manager Review:

RSMDate: 05/11/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

December 13, 2011

Scott Zorn  
Arcadis U.S., Inc.  
2300 Eastlake Ave E. Ste. 200  
Seattle, WA 98102

RE: Project: 11060  
Pace Project No.: 2510157

Dear Scott Zorn:

Enclosed are the analytical results for sample(s) received by the laboratory on November 29, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Regina SteMarie

regina.stemarie@pacelabs.com  
Project Manager

Enclosures

cc: Alan Kahal, Arcadis U.S., Inc.  
David Rasar, Arcadis U.S., Inc.  
Rick Rodriguez, Arcadis U.S., Inc.



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 11060

Pace Project No.: 2510157

### Washington Certification IDs

940 South Harney Street, Seattle, WA 98108

Alaska CS Certification #: UST-025

Arizona Certification #: AZ0770

California Certification #: 01153CA

Florida/NELAP Certification #: E87617

Oregon Certification #: WA200007

Washington Certification #: C555

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: 11060  
Pace Project No.: 2510157

| Lab ID     | Sample ID  | Method         | Analysts | Analytes Reported | Laboratory |
|------------|------------|----------------|----------|-------------------|------------|
| 2510157001 | MW-6       | NWTPH-Dx       | AY1      | 4                 | PASI-S     |
|            |            | EPA 6010       | BGA      | 1                 | PASI-S     |
|            |            | EPA 5030B/8260 | CC       | 8                 | PASI-S     |
|            |            | NWTPH-Gx       | CC       | 2                 | PASI-S     |
| 2510157002 | MW-1       | NWTPH-Dx       | AY1      | 4                 | PASI-S     |
|            |            | EPA 6010       | BGA      | 1                 | PASI-S     |
|            |            | EPA 5030B/8260 | CC       | 8                 | PASI-S     |
|            |            | NWTPH-Gx       | CC       | 2                 | PASI-S     |
| 2510157003 | MW-5       | NWTPH-Dx       | AY1      | 4                 | PASI-S     |
|            |            | EPA 6010       | BGA      | 1                 | PASI-S     |
|            |            | EPA 5030B/8260 | CC       | 8                 | PASI-S     |
|            |            | NWTPH-Gx       | CC       | 2                 | PASI-S     |
| 2510157004 | MW-2       | NWTPH-Dx       | AY1      | 4                 | PASI-S     |
|            |            | EPA 6010       | BGA      | 1                 | PASI-S     |
|            |            | EPA 5030B/8260 | LNH      | 8                 | PASI-S     |
|            |            | NWTPH-Gx       | CC       | 2                 | PASI-S     |
| 2510157005 | MW-3       | NWTPH-Dx       | AY1      | 4                 | PASI-S     |
|            |            | EPA 6010       | BGA      | 1                 | PASI-S     |
|            |            | EPA 5030B/8260 | CC       | 8                 | PASI-S     |
|            |            | NWTPH-Gx       | CC       | 2                 | PASI-S     |
| 2510157006 | MW-9       | NWTPH-Dx       | AY1      | 4                 | PASI-S     |
|            |            | EPA 6010       | BGA      | 1                 | PASI-S     |
|            |            | EPA 5030B/8260 | CC       | 8                 | PASI-S     |
|            |            | NWTPH-Gx       | CC       | 2                 | PASI-S     |
| 2510157007 | MW-GW-1    | NWTPH-Dx       | AY1      | 4                 | PASI-S     |
|            |            | EPA 6010       | BGA      | 1                 | PASI-S     |
|            |            | EPA 5030B/8260 | LNH      | 8                 | PASI-S     |
|            |            | NWTPH-Gx       | CC       | 2                 | PASI-S     |
| 2510157008 | DUP-1      | NWTPH-Dx       | AY1      | 4                 | PASI-S     |
|            |            | EPA 6010       | BGA      | 1                 | PASI-S     |
|            |            | EPA 5030B/8260 | LNH      | 8                 | PASI-S     |
|            |            | NWTPH-Gx       | CC       | 2                 | PASI-S     |
| 2510157009 | TRIP BLANK | EPA 5030B/8260 | CC       | 8                 | PASI-S     |
|            |            | NWTPH-Gx       | CC       | 2                 | PASI-S     |

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 11060  
Pace Project No.: 2510157

---

**Method:** NWTPH-Dx  
**Description:** NWTPH-Dx GCS Silica Gel  
**Client:** Arcadis U.S., Inc.  
**Date:** December 13, 2011

**General Information:**

8 samples were analyzed for NWTPH-Dx. All samples were received in acceptable condition with any exceptions noted below.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 11060  
Pace Project No.: 2510157

---

**Method:** EPA 6010  
**Description:** 6010 MET ICP  
**Client:** Arcadis U.S., Inc.  
**Date:** December 13, 2011

**General Information:**

8 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 11060  
Pace Project No.: 2510157

---

**Method:** EPA 5030B/8260  
**Description:** 8260 MSV  
**Client:** Arcadis U.S., Inc.  
**Date:** December 13, 2011

**General Information:**

9 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

QC Batch: MSV/5966

S0: Surrogate recovery outside laboratory control limits.

- MSD (Lab ID: 96096)
- 4-Bromofluorobenzene (S)

**Method Blank:**

All analytes were below the report limit in the method blank with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 11060  
Pace Project No.: 2510157

---

**Method:** NWTPH-Gx  
**Description:** NWTPH-Gx MSV  
**Client:** Arcadis U.S., Inc.  
**Date:** December 13, 2011

**General Information:**

9 samples were analyzed for NWTPH-Gx. All samples were received in acceptable condition with any exceptions noted below.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/5967

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 2510166003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 96099)
  - Gasoline Range Organics
- MSD (Lab ID: 96100)
  - Gasoline Range Organics

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 11060  
Pace Project No.: 2510157

| Sample: MW-6                   |         | Lab ID: 2510157001                                       | Collected: 11/29/11 09:15 | Received: 11/29/11 14:15 | Matrix: Water  |                |            |      |
|--------------------------------|---------|----------------------------------------------------------|---------------------------|--------------------------|----------------|----------------|------------|------|
| Parameters                     | Results | Units                                                    | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>NWTPH-Dx GCS Silica Gel</b> |         | Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 |                           |                          |                |                |            |      |
| Diesel Range SG                | ND mg/L |                                                          | 0.078                     | 1                        | 11/30/11 09:20 | 12/01/11 01:33 |            |      |
| Motor Oil Range SG             | ND mg/L |                                                          | 0.39                      | 1                        | 11/30/11 09:20 | 12/01/11 01:33 | 64742-65-0 |      |
| <b>Surrogates</b>              |         |                                                          |                           |                          |                |                |            |      |
| n-Octacosane (S) SG            | 99 %    |                                                          | 50-150                    | 1                        | 11/30/11 09:20 | 12/01/11 01:33 | 630-02-4   |      |
| o-Terphenyl (S) SG             | 87 %    |                                                          | 50-150                    | 1                        | 11/30/11 09:20 | 12/01/11 01:33 | 84-15-1    |      |
| <b>6010 MET ICP</b>            |         | Analytical Method: EPA 6010 Preparation Method: EPA 3010 |                           |                          |                |                |            |      |
| Lead                           | ND ug/L |                                                          | 10.0                      | 1                        | 12/05/11 07:58 | 12/06/11 11:13 | 7439-92-1  |      |
| <b>8260 MSV</b>                |         | Analytical Method: EPA 5030B/8260                        |                           |                          |                |                |            |      |
| Benzene                        | ND ug/L |                                                          | 1.0                       | 1                        |                | 12/02/11 19:07 | 71-43-2    |      |
| Ethylbenzene                   | ND ug/L |                                                          | 1.0                       | 1                        |                | 12/02/11 19:07 | 100-41-4   |      |
| Toluene                        | ND ug/L |                                                          | 1.0                       | 1                        |                | 12/02/11 19:07 | 108-88-3   |      |
| Xylene (Total)                 | ND ug/L |                                                          | 3.0                       | 1                        |                | 12/02/11 19:07 | 1330-20-7  |      |
| <b>Surrogates</b>              |         |                                                          |                           |                          |                |                |            |      |
| 4-Bromofluorobenzene (S)       | 95 %    |                                                          | 79-121                    | 1                        |                | 12/02/11 19:07 | 460-00-4   |      |
| Dibromofluoromethane (S)       | 107 %   |                                                          | 81-119                    | 1                        |                | 12/02/11 19:07 | 1868-53-7  |      |
| 1,2-Dichloroethane-d4 (S)      | 111 %   |                                                          | 72-127                    | 1                        |                | 12/02/11 19:07 | 17060-07-0 |      |
| Toluene-d8 (S)                 | 97 %    |                                                          | 77-120                    | 1                        |                | 12/02/11 19:07 | 2037-26-5  |      |
| <b>NWTPH-Gx MSV</b>            |         | Analytical Method: NWTPH-Gx                              |                           |                          |                |                |            |      |
| Gasoline Range Organics        | ND ug/L |                                                          | 50.0                      | 1                        |                | 12/02/11 19:07 |            |      |
| <b>Surrogates</b>              |         |                                                          |                           |                          |                |                |            |      |
| 4-Bromofluorobenzene (S)       | 95 %    |                                                          | 50-150                    | 1                        |                | 12/02/11 19:07 | 460-00-4   |      |

| Sample: MW-1                   |           | Lab ID: 2510157002                                       | Collected: 11/29/11 09:40 | Received: 11/29/11 14:15 | Matrix: Water  |                |            |      |
|--------------------------------|-----------|----------------------------------------------------------|---------------------------|--------------------------|----------------|----------------|------------|------|
| Parameters                     | Results   | Units                                                    | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>NWTPH-Dx GCS Silica Gel</b> |           | Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 |                           |                          |                |                |            |      |
| Diesel Range SG                | ND mg/L   |                                                          | 0.075                     | 1                        | 11/30/11 09:20 | 12/01/11 03:13 |            |      |
| Motor Oil Range SG             | ND mg/L   |                                                          | 0.38                      | 1                        | 11/30/11 09:20 | 12/01/11 03:13 | 64742-65-0 |      |
| <b>Surrogates</b>              |           |                                                          |                           |                          |                |                |            |      |
| n-Octacosane (S) SG            | 100 %     |                                                          | 50-150                    | 1                        | 11/30/11 09:20 | 12/01/11 03:13 | 630-02-4   |      |
| o-Terphenyl (S) SG             | 87 %      |                                                          | 50-150                    | 1                        | 11/30/11 09:20 | 12/01/11 03:13 | 84-15-1    |      |
| <b>6010 MET ICP</b>            |           | Analytical Method: EPA 6010 Preparation Method: EPA 3010 |                           |                          |                |                |            |      |
| Lead                           | 10.3 ug/L |                                                          | 10.0                      | 1                        | 12/05/11 07:58 | 12/06/11 11:24 | 7439-92-1  |      |
| <b>8260 MSV</b>                |           | Analytical Method: EPA 5030B/8260                        |                           |                          |                |                |            |      |
| Benzene                        | 5.5 ug/L  |                                                          | 1.0                       | 1                        |                | 12/02/11 19:25 | 71-43-2    |      |
| Ethylbenzene                   | ND ug/L   |                                                          | 1.0                       | 1                        |                | 12/02/11 19:25 | 100-41-4   |      |
| Toluene                        | ND ug/L   |                                                          | 1.0                       | 1                        |                | 12/02/11 19:25 | 108-88-3   |      |
| Xylene (Total)                 | ND ug/L   |                                                          | 3.0                       | 1                        |                | 12/02/11 19:25 | 1330-20-7  |      |



## ANALYTICAL RESULTS

Project: 11060  
Pace Project No.: 2510157

| Sample: MW-1              |          | Lab ID: 2510157002                | Collected: 11/29/11 09:40 | Received: 11/29/11 14:15 | Matrix: Water |                |            |      |
|---------------------------|----------|-----------------------------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters                | Results  | Units                             | Report Limit              | DF                       | Prepared      | Analyzed       | CAS No.    | Qual |
| 8260 MSV                  |          | Analytical Method: EPA 5030B/8260 |                           |                          |               |                |            |      |
| Surrogates                |          |                                   |                           |                          |               |                |            |      |
| 4-Bromofluorobenzene (S)  | 97 %     |                                   | 79-121                    | 1                        |               | 12/02/11 19:25 | 460-00-4   |      |
| Dibromofluoromethane (S)  | 107 %    |                                   | 81-119                    | 1                        |               | 12/02/11 19:25 | 1868-53-7  |      |
| 1,2-Dichloroethane-d4 (S) | 109 %    |                                   | 72-127                    | 1                        |               | 12/02/11 19:25 | 17060-07-0 |      |
| Toluene-d8 (S)            | 98 %     |                                   | 77-120                    | 1                        |               | 12/02/11 19:25 | 2037-26-5  |      |
| NWTPH-Gx MSV              |          | Analytical Method: NWTPH-Gx       |                           |                          |               |                |            |      |
| Gasoline Range Organics   | 815 ug/L |                                   | 50.0                      | 1                        |               | 12/02/11 19:25 |            |      |
| Surrogates                |          |                                   |                           |                          |               |                |            |      |
| 4-Bromofluorobenzene (S)  | 97 %     |                                   | 50-150                    | 1                        |               | 12/02/11 19:25 | 460-00-4   |      |

| Sample: MW-5                   |            | Lab ID: 2510157003                                       | Collected: 11/29/11 10:10 | Received: 11/29/11 14:15 | Matrix: Water  |                |            |      |
|--------------------------------|------------|----------------------------------------------------------|---------------------------|--------------------------|----------------|----------------|------------|------|
| Parameters                     | Results    | Units                                                    | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>NWTPH-Dx GCS Silica Gel</b> |            | Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 |                           |                          |                |                |            |      |
| Diesel Range SG                | 0.095 mg/L |                                                          | 0.077                     | 1                        | 11/30/11 09:20 | 12/01/11 03:38 |            |      |
| Motor Oil Range SG             | ND mg/L    |                                                          | 0.38                      | 1                        | 11/30/11 09:20 | 12/01/11 03:38 | 64742-65-0 |      |
| <b>Surrogates</b>              |            |                                                          |                           |                          |                |                |            |      |
| n-Octacosane (S) SG            | 98 %       |                                                          | 50-150                    | 1                        | 11/30/11 09:20 | 12/01/11 03:38 | 630-02-4   |      |
| o-Terphenyl (S) SG             | 86 %       |                                                          | 50-150                    | 1                        | 11/30/11 09:20 | 12/01/11 03:38 | 84-15-1    |      |
| <b>6010 MET ICP</b>            |            | Analytical Method: EPA 6010 Preparation Method: EPA 3010 |                           |                          |                |                |            |      |
| Lead                           | 10.5 ug/L  |                                                          | 10.0                      | 1                        | 12/05/11 07:58 | 12/06/11 11:42 | 7439-92-1  |      |
| <b>8260 MSV</b>                |            | Analytical Method: EPA 5030B/8260                        |                           |                          |                |                |            |      |
| Benzene                        | 12.3 ug/L  |                                                          | 1.0                       | 1                        |                | 12/02/11 21:48 | 71-43-2    |      |
| Ethylbenzene                   | 6.4 ug/L   |                                                          | 1.0                       | 1                        |                | 12/02/11 21:48 | 100-41-4   |      |
| Toluene                        | 2.2 ug/L   |                                                          | 1.0                       | 1                        |                | 12/02/11 21:48 | 108-88-3   |      |
| Xylene (Total)                 | 3.1 ug/L   |                                                          | 3.0                       | 1                        |                | 12/02/11 21:48 | 1330-20-7  |      |
| <b>Surrogates</b>              |            |                                                          |                           |                          |                |                |            |      |
| 4-Bromofluorobenzene (S)       | 99 %       |                                                          | 79-121                    | 1                        |                | 12/02/11 21:48 | 460-00-4   |      |
| Dibromofluoromethane (S)       | 113 %      |                                                          | 81-119                    | 1                        |                | 12/02/11 21:48 | 1868-53-7  |      |
| 1,2-Dichloroethane-d4 (S)      | 112 %      |                                                          | 72-127                    | 1                        |                | 12/02/11 21:48 | 17060-07-0 |      |
| Toluene-d8 (S)                 | 100 %      |                                                          | 77-120                    | 1                        |                | 12/02/11 21:48 | 2037-26-5  |      |
| <b>NWTPH-Gx MSV</b>            |            | Analytical Method: NWTPH-Gx                              |                           |                          |                |                |            |      |
| Gasoline Range Organics        | 2210 ug/L  |                                                          | 50.0                      | 1                        |                | 12/02/11 21:48 |            |      |
| <b>Surrogates</b>              |            |                                                          |                           |                          |                |                |            |      |
| 4-Bromofluorobenzene (S)       | 99 %       |                                                          | 50-150                    | 1                        |                | 12/02/11 21:48 | 460-00-4   |      |

## ANALYTICAL RESULTS

Project: 11060  
Pace Project No.: 2510157

| Sample: MW-2              |         | Lab ID: 2510157004                                       |              | Collected: 11/29/11 10:45 |                | Received: 11/29/11 14:15 |            | Matrix: Water |  |
|---------------------------|---------|----------------------------------------------------------|--------------|---------------------------|----------------|--------------------------|------------|---------------|--|
| Parameters                | Results | Units                                                    | Report Limit | DF                        | Prepared       | Analyzed                 | CAS No.    | Qual          |  |
| NWTPH-Dx GCS Silica Gel   |         | Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 |              |                           |                |                          |            |               |  |
| Diesel Range SG           | 0.098   | mg/L                                                     | 0.077        | 1                         | 11/30/11 09:20 | 12/01/11 04:03           |            |               |  |
| Motor Oil Range SG        | ND      | mg/L                                                     | 0.38         | 1                         | 11/30/11 09:20 | 12/01/11 04:03           | 64742-65-0 |               |  |
| Surrogates                |         |                                                          |              |                           |                |                          |            |               |  |
| n-Octacosane (S) SG       | 101     | %                                                        | 50-150       | 1                         | 11/30/11 09:20 | 12/01/11 04:03           | 630-02-4   |               |  |
| o-Terphenyl (S) SG        | 88      | %                                                        | 50-150       | 1                         | 11/30/11 09:20 | 12/01/11 04:03           | 84-15-1    |               |  |
| 6010 MET ICP              |         | Analytical Method: EPA 6010 Preparation Method: EPA 3010 |              |                           |                |                          |            |               |  |
| Lead                      | ND      | ug/L                                                     | 10.0         | 1                         | 12/05/11 07:58 | 12/06/11 11:45           | 7439-92-1  |               |  |
| 8260 MSV                  |         | Analytical Method: EPA 5030B/8260                        |              |                           |                |                          |            |               |  |
| Benzene                   | 549     | ug/L                                                     | 5.0          | 5                         |                | 12/07/11 23:14           | 71-43-2    |               |  |
| Ethylbenzene              | 82.6    | ug/L                                                     | 1.0          | 1                         |                | 12/07/11 23:31           | 100-41-4   |               |  |
| Toluene                   | 7.0     | ug/L                                                     | 1.0          | 1                         |                | 12/07/11 23:31           | 108-88-3   |               |  |
| Xylene (Total)            | 61.6    | ug/L                                                     | 3.0          | 1                         |                | 12/07/11 23:31           | 1330-20-7  |               |  |
| Surrogates                |         |                                                          |              |                           |                |                          |            |               |  |
| 4-Bromofluorobenzene (S)  | 108     | %                                                        | 79-121       | 1                         |                | 12/07/11 23:31           | 460-00-4   |               |  |
| Dibromofluoromethane (S)  | 96      | %                                                        | 81-119       | 1                         |                | 12/07/11 23:31           | 1868-53-7  |               |  |
| 1,2-Dichloroethane-d4 (S) | 92      | %                                                        | 72-127       | 1                         |                | 12/07/11 23:31           | 17060-07-0 |               |  |
| Toluene-d8 (S)            | 106     | %                                                        | 77-120       | 1                         |                | 12/07/11 23:31           | 2037-26-5  |               |  |
| NWTPH-Gx MSV              |         | Analytical Method: NWTPH-Gx                              |              |                           |                |                          |            |               |  |
| Gasoline Range Organics   | 5640    | ug/L                                                     | 50.0         | 1                         |                | 12/02/11 22:05           |            |               |  |
| Surrogates                |         |                                                          |              |                           |                |                          |            |               |  |
| 4-Bromofluorobenzene (S)  | 80      | %                                                        | 50-150       | 1                         |                | 12/02/11 22:05           | 460-00-4   |               |  |

| Sample: MW-3            |         | Lab ID: 2510157005                                       |              | Collected: 11/29/11 11:15 |                | Received: 11/29/11 14:15 |            | Matrix: Water |  |
|-------------------------|---------|----------------------------------------------------------|--------------|---------------------------|----------------|--------------------------|------------|---------------|--|
| Parameters              | Results | Units                                                    | Report Limit | DF                        | Prepared       | Analyzed                 | CAS No.    | Qual          |  |
| NWTPH-Dx GCS Silica Gel |         | Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 |              |                           |                |                          |            |               |  |
| Diesel Range SG         | ND      | mg/L                                                     | 0.076        | 1                         | 11/30/11 09:20 | 12/01/11 04:29           |            |               |  |
| Motor Oil Range SG      | ND      | mg/L                                                     | 0.38         | 1                         | 11/30/11 09:20 | 12/01/11 04:29           | 64742-65-0 |               |  |
| Surrogates              |         |                                                          |              |                           |                |                          |            |               |  |
| n-Octacosane (S) SG     | 83      | %                                                        | 50-150       | 1                         | 11/30/11 09:20 | 12/01/11 04:29           | 630-02-4   |               |  |
| o-Terphenyl (S) SG      | 72      | %                                                        | 50-150       | 1                         | 11/30/11 09:20 | 12/01/11 04:29           | 84-15-1    |               |  |
| 6010 MET ICP            |         | Analytical Method: EPA 6010 Preparation Method: EPA 3010 |              |                           |                |                          |            |               |  |
| Lead                    | ND      | ug/L                                                     | 10.0         | 1                         | 12/05/11 07:58 | 12/06/11 11:49           | 7439-92-1  |               |  |
| 8260 MSV                |         | Analytical Method: EPA 5030B/8260                        |              |                           |                |                          |            |               |  |
| Benzene                 | 30.4    | ug/L                                                     | 1.0          | 1                         |                | 12/02/11 20:18           | 71-43-2    |               |  |
| Ethylbenzene            | 21.0    | ug/L                                                     | 1.0          | 1                         |                | 12/02/11 20:18           | 100-41-4   |               |  |
| Toluene                 | ND      | ug/L                                                     | 1.0          | 1                         |                | 12/02/11 20:18           | 108-88-3   |               |  |
| Xylene (Total)          | 6.9     | ug/L                                                     | 3.0          | 1                         |                | 12/02/11 20:18           | 1330-20-7  |               |  |

## ANALYTICAL RESULTS

Project: 11060  
Pace Project No.: 2510157

| Sample: MW-3              |           | Lab ID: 2510157005                | Collected: 11/29/11 11:15 | Received: 11/29/11 14:15 | Matrix: Water |                |            |      |
|---------------------------|-----------|-----------------------------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters                | Results   | Units                             | Report Limit              | DF                       | Prepared      | Analyzed       | CAS No.    | Qual |
| <b>8260 MSV</b>           |           | Analytical Method: EPA 5030B/8260 |                           |                          |               |                |            |      |
| <b>Surrogates</b>         |           |                                   |                           |                          |               |                |            |      |
| 4-Bromofluorobenzene (S)  | 98 %      |                                   | 79-121                    | 1                        |               | 12/02/11 20:18 | 460-00-4   |      |
| Dibromofluoromethane (S)  | 110 %     |                                   | 81-119                    | 1                        |               | 12/02/11 20:18 | 1868-53-7  |      |
| 1,2-Dichloroethane-d4 (S) | 118 %     |                                   | 72-127                    | 1                        |               | 12/02/11 20:18 | 17060-07-0 |      |
| Toluene-d8 (S)            | 101 %     |                                   | 77-120                    | 1                        |               | 12/02/11 20:18 | 2037-26-5  |      |
| <b>NWTPH-Gx MSV</b>       |           | Analytical Method: NWTPH-Gx       |                           |                          |               |                |            |      |
| Gasoline Range Organics   | 3130 ug/L |                                   | 50.0                      | 1                        |               | 12/02/11 20:18 |            |      |
| <b>Surrogates</b>         |           |                                   |                           |                          |               |                |            |      |
| 4-Bromofluorobenzene (S)  | 98 %      |                                   | 50-150                    | 1                        |               | 12/02/11 20:18 | 460-00-4   |      |

| Sample: MW-9                   |         | Lab ID: 2510157006                                       | Collected: 11/29/11 11:45 | Received: 11/29/11 14:15 | Matrix: Water  |                |            |      |
|--------------------------------|---------|----------------------------------------------------------|---------------------------|--------------------------|----------------|----------------|------------|------|
| Parameters                     | Results | Units                                                    | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>NWTPH-Dx GCS Silica Gel</b> |         | Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 |                           |                          |                |                |            |      |
| Diesel Range SG                | ND mg/L |                                                          | 0.076                     | 1                        | 11/30/11 09:20 | 12/01/11 04:53 |            |      |
| Motor Oil Range SG             | ND mg/L |                                                          | 0.38                      | 1                        | 11/30/11 09:20 | 12/01/11 04:53 | 64742-65-0 |      |
| <b>Surrogates</b>              |         |                                                          |                           |                          |                |                |            |      |
| n-Octacosane (S) SG            | 99 %    |                                                          | 50-150                    | 1                        | 11/30/11 09:20 | 12/01/11 04:53 | 630-02-4   |      |
| o-Terphenyl (S) SG             | 86 %    |                                                          | 50-150                    | 1                        | 11/30/11 09:20 | 12/01/11 04:53 | 84-15-1    |      |
| <b>6010 MET ICP</b>            |         | Analytical Method: EPA 6010 Preparation Method: EPA 3010 |                           |                          |                |                |            |      |
| Lead                           | ND ug/L |                                                          | 10.0                      | 1                        | 12/05/11 07:58 | 12/06/11 11:52 | 7439-92-1  |      |
| <b>8260 MSV</b>                |         | Analytical Method: EPA 5030B/8260                        |                           |                          |                |                |            |      |
| Benzene                        | ND ug/L |                                                          | 1.0                       | 1                        |                | 12/02/11 19:43 | 71-43-2    |      |
| Ethylbenzene                   | ND ug/L |                                                          | 1.0                       | 1                        |                | 12/02/11 19:43 | 100-41-4   |      |
| Toluene                        | ND ug/L |                                                          | 1.0                       | 1                        |                | 12/02/11 19:43 | 108-88-3   |      |
| Xylene (Total)                 | ND ug/L |                                                          | 3.0                       | 1                        |                | 12/02/11 19:43 | 1330-20-7  |      |
| <b>Surrogates</b>              |         |                                                          |                           |                          |                |                |            |      |
| 4-Bromofluorobenzene (S)       | 96 %    |                                                          | 79-121                    | 1                        |                | 12/02/11 19:43 | 460-00-4   |      |
| Dibromofluoromethane (S)       | 105 %   |                                                          | 81-119                    | 1                        |                | 12/02/11 19:43 | 1868-53-7  |      |
| 1,2-Dichloroethane-d4 (S)      | 110 %   |                                                          | 72-127                    | 1                        |                | 12/02/11 19:43 | 17060-07-0 |      |
| Toluene-d8 (S)                 | 98 %    |                                                          | 77-120                    | 1                        |                | 12/02/11 19:43 | 2037-26-5  |      |
| <b>NWTPH-Gx MSV</b>            |         | Analytical Method: NWTPH-Gx                              |                           |                          |                |                |            |      |
| Gasoline Range Organics        | ND ug/L |                                                          | 50.0                      | 1                        |                | 12/02/11 19:43 |            |      |
| <b>Surrogates</b>              |         |                                                          |                           |                          |                |                |            |      |
| 4-Bromofluorobenzene (S)       | 96 %    |                                                          | 50-150                    | 1                        |                | 12/02/11 19:43 | 460-00-4   |      |

## ANALYTICAL RESULTS

Project: 11060  
Pace Project No.: 2510157

| Sample: MW-GW-1                |         | Lab ID: 2510157007                                       | Collected: 11/29/11 12:20 | Received: 11/29/11 14:15 | Matrix: Water  |                |            |      |
|--------------------------------|---------|----------------------------------------------------------|---------------------------|--------------------------|----------------|----------------|------------|------|
| Parameters                     | Results | Units                                                    | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>NWTPH-Dx GCS Silica Gel</b> |         | Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 |                           |                          |                |                |            |      |
| Diesel Range SG                | 0.61    | mg/L                                                     | 0.077                     | 1                        | 11/30/11 09:20 | 12/01/11 05:18 |            |      |
| Motor Oil Range SG             | ND      | mg/L                                                     | 0.38                      | 1                        | 11/30/11 09:20 | 12/01/11 05:18 | 64742-65-0 |      |
| <b>Surrogates</b>              |         |                                                          |                           |                          |                |                |            |      |
| n-Octacosane (S) SG            | 92      | %                                                        | 50-150                    | 1                        | 11/30/11 09:20 | 12/01/11 05:18 | 630-02-4   |      |
| o-Terphenyl (S) SG             | 80      | %                                                        | 50-150                    | 1                        | 11/30/11 09:20 | 12/01/11 05:18 | 84-15-1    |      |
| <b>6010 MET ICP</b>            |         | Analytical Method: EPA 6010 Preparation Method: EPA 3010 |                           |                          |                |                |            |      |
| Lead                           | ND      | ug/L                                                     | 10.0                      | 1                        | 12/05/11 07:58 | 12/06/11 11:56 | 7439-92-1  |      |
| <b>8260 MSV</b>                |         | Analytical Method: EPA 5030B/8260                        |                           |                          |                |                |            |      |
| Benzene                        | ND      | ug/L                                                     | 1.0                       | 1                        |                | 12/07/11 20:41 | 71-43-2    |      |
| Ethylbenzene                   | 86.9    | ug/L                                                     | 1.0                       | 1                        |                | 12/07/11 20:41 | 100-41-4   |      |
| Toluene                        | ND      | ug/L                                                     | 1.0                       | 1                        |                | 12/07/11 20:41 | 108-88-3   |      |
| Xylene (Total)                 | 113     | ug/L                                                     | 3.0                       | 1                        |                | 12/07/11 20:41 | 1330-20-7  |      |
| <b>Surrogates</b>              |         |                                                          |                           |                          |                |                |            |      |
| 4-Bromofluorobenzene (S)       | 105     | %                                                        | 79-121                    | 1                        |                | 12/07/11 20:41 | 460-00-4   |      |
| Dibromofluoromethane (S)       | 96      | %                                                        | 81-119                    | 1                        |                | 12/07/11 20:41 | 1868-53-7  |      |
| 1,2-Dichloroethane-d4 (S)      | 87      | %                                                        | 72-127                    | 1                        |                | 12/07/11 20:41 | 17060-07-0 |      |
| Toluene-d8 (S)                 | 102     | %                                                        | 77-120                    | 1                        |                | 12/07/11 20:41 | 2037-26-5  |      |
| <b>NWTPH-Gx MSV</b>            |         | Analytical Method: NWTPH-Gx                              |                           |                          |                |                |            |      |
| Gasoline Range Organics        | 6080    | ug/L                                                     | 50.0                      | 1                        |                | 12/02/11 22:23 |            |      |
| <b>Surrogates</b>              |         |                                                          |                           |                          |                |                |            |      |
| 4-Bromofluorobenzene (S)       | 97      | %                                                        | 50-150                    | 1                        |                | 12/02/11 22:23 | 460-00-4   |      |

| Sample: DUP-1                  |         | Lab ID: 2510157008                                       | Collected: 11/29/11 00:00 | Received: 11/29/11 14:15 | Matrix: Water  |                |            |      |
|--------------------------------|---------|----------------------------------------------------------|---------------------------|--------------------------|----------------|----------------|------------|------|
| Parameters                     | Results | Units                                                    | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No.    | Qual |
| <b>NWTPH-Dx GCS Silica Gel</b> |         | Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 |                           |                          |                |                |            |      |
| Diesel Range SG                | ND      | mg/L                                                     | 0.077                     | 1                        | 11/30/11 09:20 | 12/01/11 05:42 |            |      |
| Motor Oil Range SG             | ND      | mg/L                                                     | 0.38                      | 1                        | 11/30/11 09:20 | 12/01/11 05:42 | 64742-65-0 |      |
| <b>Surrogates</b>              |         |                                                          |                           |                          |                |                |            |      |
| n-Octacosane (S) SG            | 88      | %                                                        | 50-150                    | 1                        | 11/30/11 09:20 | 12/01/11 05:42 | 630-02-4   |      |
| o-Terphenyl (S) SG             | 75      | %                                                        | 50-150                    | 1                        | 11/30/11 09:20 | 12/01/11 05:42 | 84-15-1    |      |
| <b>6010 MET ICP</b>            |         | Analytical Method: EPA 6010 Preparation Method: EPA 3010 |                           |                          |                |                |            |      |
| Lead                           | ND      | ug/L                                                     | 10.0                      | 1                        | 12/05/11 07:58 | 12/06/11 11:59 | 7439-92-1  |      |
| <b>8260 MSV</b>                |         | Analytical Method: EPA 5030B/8260                        |                           |                          |                |                |            |      |
| Benzene                        | ND      | ug/L                                                     | 1.0                       | 1                        |                | 12/07/11 17:32 | 71-43-2    |      |
| Ethylbenzene                   | ND      | ug/L                                                     | 1.0                       | 1                        |                | 12/07/11 17:32 | 100-41-4   |      |
| Toluene                        | ND      | ug/L                                                     | 1.0                       | 1                        |                | 12/07/11 17:32 | 108-88-3   |      |
| Xylene (Total)                 | ND      | ug/L                                                     | 3.0                       | 1                        |                | 12/07/11 17:32 | 1330-20-7  |      |

## ANALYTICAL RESULTS

Project: 11060  
Pace Project No.: 2510157

| Sample: DUP-1             |         | Lab ID: 2510157008                |              | Collected: 11/29/11 00:00 |          | Received: 11/29/11 14:15 |            | Matrix: Water |  |
|---------------------------|---------|-----------------------------------|--------------|---------------------------|----------|--------------------------|------------|---------------|--|
| Parameters                | Results | Units                             | Report Limit | DF                        | Prepared | Analyzed                 | CAS No.    | Qual          |  |
| 8260 MSV                  |         | Analytical Method: EPA 5030B/8260 |              |                           |          |                          |            |               |  |
| Surrogates                |         |                                   |              |                           |          |                          |            |               |  |
| 4-Bromofluorobenzene (S)  | 110 %   |                                   | 79-121       | 1                         |          | 12/07/11 17:32           | 460-00-4   |               |  |
| Dibromofluoromethane (S)  | 101 %   |                                   | 81-119       | 1                         |          | 12/07/11 17:32           | 1868-53-7  |               |  |
| 1,2-Dichloroethane-d4 (S) | 95 %    |                                   | 72-127       | 1                         |          | 12/07/11 17:32           | 17060-07-0 |               |  |
| Toluene-d8 (S)            | 98 %    |                                   | 77-120       | 1                         |          | 12/07/11 17:32           | 2037-26-5  |               |  |
| NWTPH-Gx MSV              |         | Analytical Method: NWTPH-Gx       |              |                           |          |                          |            |               |  |
| Gasoline Range Organics   | ND ug/L |                                   | 50.0         | 1                         |          | 12/02/11 22:41           |            |               |  |
| Surrogates                |         |                                   |              |                           |          |                          |            |               |  |
| 4-Bromofluorobenzene (S)  | 96 %    |                                   | 50-150       | 1                         |          | 12/02/11 22:41           | 460-00-4   |               |  |

| Sample: TRIP BLANK        |         | Lab ID: 2510157009                | Collected: 11/29/11 00:00 | Received: 11/29/11 14:15 | Matrix: Water |                |            |      |
|---------------------------|---------|-----------------------------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters                | Results | Units                             | Report Limit              | DF                       | Prepared      | Analyzed       | CAS No.    | Qual |
| <b>8260 MSV</b>           |         | Analytical Method: EPA 5030B/8260 |                           |                          |               |                |            |      |
| Benzene                   | ND ug/L |                                   | 1.0                       | 1                        |               | 12/02/11 15:50 | 71-43-2    |      |
| Ethylbenzene              | ND ug/L |                                   | 1.0                       | 1                        |               | 12/02/11 15:50 | 100-41-4   |      |
| Toluene                   | ND ug/L |                                   | 1.0                       | 1                        |               | 12/02/11 15:50 | 108-88-3   |      |
| Xylene (Total)            | ND ug/L |                                   | 3.0                       | 1                        |               | 12/02/11 15:50 | 1330-20-7  |      |
| <b>Surrogates</b>         |         |                                   |                           |                          |               |                |            |      |
| 4-Bromofluorobenzene (S)  | 97 %    |                                   | 79-121                    | 1                        |               | 12/02/11 15:50 | 460-00-4   |      |
| Dibromofluoromethane (S)  | 106 %   |                                   | 81-119                    | 1                        |               | 12/02/11 15:50 | 1868-53-7  |      |
| 1,2-Dichloroethane-d4 (S) | 115 %   |                                   | 72-127                    | 1                        |               | 12/02/11 15:50 | 17060-07-0 |      |
| Toluene-d8 (S)            | 97 %    |                                   | 77-120                    | 1                        |               | 12/02/11 15:50 | 2037-26-5  |      |
| <b>NWTPH-Gx MSV</b>       |         | Analytical Method: NWTPH-Gx       |                           |                          |               |                |            |      |
| Gasoline Range Organics   | ND ug/L |                                   | 50.0                      | 1                        |               | 12/02/11 15:50 |            |      |
| <b>Surrogates</b>         |         |                                   |                           |                          |               |                |            |      |
| 4-Bromofluorobenzene (S)  | 97 %    |                                   | 50-150                    | 1                        |               | 12/02/11 15:50 | 460-00-4   |      |

## QUALITY CONTROL DATA

Project: 11060  
Pace Project No.: 2510157

QC Batch: MPRP/2671 Analysis Method: EPA 6010  
QC Batch Method: EPA 3010 Analysis Description: 6010 MET  
Associated Lab Samples: 2510157001, 2510157002, 2510157003, 2510157004, 2510157005, 2510157006, 2510157007, 2510157008

METHOD BLANK: 96194 Matrix: Water  
Associated Lab Samples: 2510157001, 2510157002, 2510157003, 2510157004, 2510157005, 2510157006, 2510157007, 2510157008

| Parameter | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Lead      | ug/L  | ND           | 10.0            | 12/06/11 11:06 |            |

LABORATORY CONTROL SAMPLE: 96195

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Lead      | ug/L  | 500         | 543        | 109       | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 96196 96197

| Parameter | Units | 2510157001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|-----------|-------|-------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|------|
| Lead      | ug/L  | ND                | 500            | 500             | 558       | 534        | 112      | 107       | 75-125       | 4   |      |

## QUALITY CONTROL DATA

Project: 11060  
Pace Project No.: 2510157

QC Batch: MSV/5966 Analysis Method: EPA 5030B/8260  
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge  
Associated Lab Samples: 2510157001, 2510157002, 2510157003, 2510157005, 2510157006, 2510157009

METHOD BLANK: 96093 Matrix: Water  
Associated Lab Samples: 2510157001, 2510157002, 2510157003, 2510157005, 2510157006, 2510157009

| Parameter                 | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| Benzene                   | ug/L  | ND           | 1.0             | 12/02/11 15:14 |            |
| Ethylbenzene              | ug/L  | ND           | 1.0             | 12/02/11 15:14 |            |
| Toluene                   | ug/L  | ND           | 1.0             | 12/02/11 15:14 |            |
| Xylene (Total)            | ug/L  | ND           | 3.0             | 12/02/11 15:14 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 111          | 72-127          | 12/02/11 15:14 |            |
| 4-Bromofluorobenzene (S)  | %     | 97           | 79-121          | 12/02/11 15:14 |            |
| Dibromofluoromethane (S)  | %     | 103          | 81-119          | 12/02/11 15:14 |            |
| Toluene-d8 (S)            | %     | 97           | 77-120          | 12/02/11 15:14 |            |

LABORATORY CONTROL SAMPLE: 96094

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| Benzene                   | ug/L  | 20          | 18.4       | 92        | 66-123       |            |
| Ethylbenzene              | ug/L  | 20          | 18.8       | 94        | 67-122       |            |
| Toluene                   | ug/L  | 20          | 17.3       | 86        | 64-118       |            |
| Xylene (Total)            | ug/L  | 60          | 56.5       | 94        | 68-122       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 114       | 72-127       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 97        | 79-121       |            |
| Dibromofluoromethane (S)  | %     |             |            | 106       | 81-119       |            |
| Toluene-d8 (S)            | %     |             |            | 98        | 77-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 96095 96096

| Parameter                 | Units | 2510166003 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|---------------------------|-------|-------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|------|
| Benzene                   | ug/L  | 48.5              | 20             | 20              | 65.2      | 65.6       | 83       | 86        | 63-138       | .7  |      |
| Ethylbenzene              | ug/L  | 43.6              | 20             | 20              | 66.3      | 61.0       | 113      | 87        | 65-135       | 8   |      |
| Toluene                   | ug/L  | ND                | 20             | 20              | 16.8      | 18.1       | 80       | 86        | 64-128       | 7   |      |
| Xylene (Total)            | ug/L  | 98.3              | 60             | 60              | 163       | 152        | 108      | 89        | 65-133       | 7   |      |
| 1,2-Dichloroethane-d4 (S) | %     |                   |                |                 |           |            | 111      | 111       | 72-127       |     |      |
| 4-Bromofluorobenzene (S)  | %     |                   |                |                 |           |            | 101      | 182       | 79-121       |     | S0   |
| Dibromofluoromethane (S)  | %     |                   |                |                 |           |            | 108      | 108       | 81-119       |     |      |
| Toluene-d8 (S)            | %     |                   |                |                 |           |            | 97       | 96        | 77-120       |     |      |



## QUALITY CONTROL DATA

Project: 11060  
Pace Project No.: 2510157

QC Batch: MSV/5987 Analysis Method: EPA 5030B/8260  
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge  
Associated Lab Samples: 2510157004, 2510157007, 2510157008

METHOD BLANK: 96549 Matrix: Water  
Associated Lab Samples: 2510157004, 2510157007, 2510157008

| Parameter                 | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| Benzene                   | ug/L  | ND           | 1.0             | 12/07/11 16:39 |            |
| Ethylbenzene              | ug/L  | ND           | 1.0             | 12/07/11 16:39 |            |
| Toluene                   | ug/L  | ND           | 1.0             | 12/07/11 16:39 |            |
| Xylene (Total)            | ug/L  | ND           | 3.0             | 12/07/11 16:39 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 92           | 72-127          | 12/07/11 16:39 |            |
| 4-Bromofluorobenzene (S)  | %     | 112          | 79-121          | 12/07/11 16:39 |            |
| Dibromofluoromethane (S)  | %     | 99           | 81-119          | 12/07/11 16:39 |            |
| Toluene-d8 (S)            | %     | 101          | 77-120          | 12/07/11 16:39 |            |

LABORATORY CONTROL SAMPLE: 96550

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| Benzene                   | ug/L  | 20          | 16.8       | 84        | 66-123       |            |
| Ethylbenzene              | ug/L  | 20          | 16.9       | 85        | 67-122       |            |
| Toluene                   | ug/L  | 20          | 16.1       | 81        | 64-118       |            |
| Xylene (Total)            | ug/L  | 60          | 49.7       | 83        | 68-122       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 86        | 72-127       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 105       | 79-121       |            |
| Dibromofluoromethane (S)  | %     |             |            | 96        | 81-119       |            |
| Toluene-d8 (S)            | %     |             |            | 102       | 77-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 96670 96671

| Parameter                 | Units | 2510157008 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|---------------------------|-------|-------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|------|
| Benzene                   | ug/L  | ND                | 20             | 20              | 20.0      | 19.7       | 99       | 97        | 63-138       | 2   |      |
| Ethylbenzene              | ug/L  | ND                | 20             | 20              | 20.2      | 19.8       | 100      | 98        | 65-135       | 2   |      |
| Toluene                   | ug/L  | ND                | 20             | 20              | 19.7      | 19.2       | 97       | 95        | 64-128       | 3   |      |
| Xylene (Total)            | ug/L  | ND                | 60             | 60              | 60.5      | 59.0       | 100      | 97        | 65-133       | 3   |      |
| 1,2-Dichloroethane-d4 (S) | %     |                   |                |                 |           |            | 87       | 91        | 72-127       |     |      |
| 4-Bromofluorobenzene (S)  | %     |                   |                |                 |           |            | 104      | 103       | 79-121       |     |      |
| Dibromofluoromethane (S)  | %     |                   |                |                 |           |            | 97       | 97        | 81-119       |     |      |
| Toluene-d8 (S)            | %     |                   |                |                 |           |            | 103      | 103       | 77-120       |     |      |

## QUALITY CONTROL DATA

Project: 11060  
Pace Project No.: 2510157

QC Batch: MSV/5967 Analysis Method: NWTPH-Gx  
QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx MSV Water  
Associated Lab Samples: 2510157001, 2510157002, 2510157003, 2510157004, 2510157005, 2510157006, 2510157007, 2510157008, 2510157009

METHOD BLANK: 96097 Matrix: Water  
Associated Lab Samples: 2510157001, 2510157002, 2510157003, 2510157004, 2510157005, 2510157006, 2510157007, 2510157008, 2510157009

| Parameter                | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|--------------------------|-------|--------------|-----------------|----------------|------------|
| Gasoline Range Organics  | ug/L  | ND           | 50.0            | 12/02/11 15:14 |            |
| 4-Bromofluorobenzene (S) | %     | 97           | 50-150          | 12/02/11 15:14 |            |

LABORATORY CONTROL SAMPLE: 96098

| Parameter                | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------|-------|-------------|------------|-----------|--------------|------------|
| Gasoline Range Organics  | ug/L  | 500         | 541        | 108       | 65-139       |            |
| 4-Bromofluorobenzene (S) | %     |             |            | 99        | 50-150       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 96099 96100

| Parameter                | Units | 2510166003 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|--------------------------|-------|-------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|------|
| Gasoline Range Organics  | ug/L  | 4510              | 500            | 500             | 8670      | 7610       | 832      | 619       | 48-147       | 13  | M1   |
| 4-Bromofluorobenzene (S) | %     |                   |                |                 |           |            | 103      | 99        | 50-150       |     |      |

SAMPLE DUPLICATE: 96101

| Parameter                | Units | 2510166003 Result | Dup Result | RPD | Qualifiers |
|--------------------------|-------|-------------------|------------|-----|------------|
| Gasoline Range Organics  | ug/L  | 4510              | 5240       | 15  |            |
| 4-Bromofluorobenzene (S) | %     | 99                | 100        | .7  |            |

## QUALITY CONTROL DATA

Project: 11060  
Pace Project No.: 2510157

QC Batch: OEXT/4798 Analysis Method: NWTPH-Dx  
QC Batch Method: EPA 3510 Analysis Description: NWTPH-Dx GCS SG  
Associated Lab Samples: 2510157001, 2510157002, 2510157003, 2510157004, 2510157005, 2510157006, 2510157007, 2510157008

METHOD BLANK: 95769 Matrix: Water  
Associated Lab Samples: 2510157001, 2510157002, 2510157003, 2510157004, 2510157005, 2510157006, 2510157007, 2510157008

| Parameter           | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------|-------|--------------|-----------------|----------------|------------|
| Diesel Range SG     | mg/L  | ND           | 0.080           | 12/01/11 00:43 |            |
| Motor Oil Range SG  | mg/L  | ND           | 0.40            | 12/01/11 00:43 |            |
| n-Octacosane (S) SG | %     | 96           | 50-150          | 12/01/11 00:43 |            |
| o-Terphenyl (S) SG  | %     | 83           | 50-150          | 12/01/11 00:43 |            |

LABORATORY CONTROL SAMPLE: 95770

| Parameter           | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------|-------|-------------|------------|-----------|--------------|------------|
| Diesel Range SG     | mg/L  | 4           | 2.8        | 71        | 59-114       |            |
| Motor Oil Range SG  | mg/L  | 4           | 3.3        | 82        | 69-124       |            |
| n-Octacosane (S) SG | %     |             |            | 91        | 50-150       |            |
| o-Terphenyl (S) SG  | %     |             |            | 84        | 50-150       |            |

SAMPLE DUPLICATE: 95771

| Parameter           | Units | 2510157001 Result | Dup Result | RPD | Qualifiers |
|---------------------|-------|-------------------|------------|-----|------------|
| Diesel Range SG     | mg/L  | ND                | ND         |     |            |
| Motor Oil Range SG  | mg/L  | ND                | ND         |     |            |
| n-Octacosane (S) SG | %     | 99                | 98         | 7   |            |
| o-Terphenyl (S) SG  | %     | 87                | 85         | 6   |            |

## QUALIFIERS

Project: 11060  
Pace Project No.: 2510157

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel Clean-Up

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

### LABORATORIES

PASI-S Pace Analytical Services - Seattle

### ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

S0 Surrogate recovery outside laboratory control limits.

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 11060

Pace Project No.: 2510157

| Lab ID     | Sample ID  | QC Batch Method | QC Batch  | Analytical Method | Analytical Batch |
|------------|------------|-----------------|-----------|-------------------|------------------|
| 2510157001 | MW-6       | EPA 3510        | OEXT/4798 | NWTPH-Dx          | GCSV/3131        |
| 2510157002 | MW-1       | EPA 3510        | OEXT/4798 | NWTPH-Dx          | GCSV/3131        |
| 2510157003 | MW-5       | EPA 3510        | OEXT/4798 | NWTPH-Dx          | GCSV/3131        |
| 2510157004 | MW-2       | EPA 3510        | OEXT/4798 | NWTPH-Dx          | GCSV/3131        |
| 2510157005 | MW-3       | EPA 3510        | OEXT/4798 | NWTPH-Dx          | GCSV/3131        |
| 2510157006 | MW-9       | EPA 3510        | OEXT/4798 | NWTPH-Dx          | GCSV/3131        |
| 2510157007 | MW-GW-1    | EPA 3510        | OEXT/4798 | NWTPH-Dx          | GCSV/3131        |
| 2510157008 | DUP-1      | EPA 3510        | OEXT/4798 | NWTPH-Dx          | GCSV/3131        |
| 2510157001 | MW-6       | EPA 3010        | MPRP/2671 | EPA 6010          | ICP/2530         |
| 2510157002 | MW-1       | EPA 3010        | MPRP/2671 | EPA 6010          | ICP/2530         |
| 2510157003 | MW-5       | EPA 3010        | MPRP/2671 | EPA 6010          | ICP/2530         |
| 2510157004 | MW-2       | EPA 3010        | MPRP/2671 | EPA 6010          | ICP/2530         |
| 2510157005 | MW-3       | EPA 3010        | MPRP/2671 | EPA 6010          | ICP/2530         |
| 2510157006 | MW-9       | EPA 3010        | MPRP/2671 | EPA 6010          | ICP/2530         |
| 2510157007 | MW-GW-1    | EPA 3010        | MPRP/2671 | EPA 6010          | ICP/2530         |
| 2510157008 | DUP-1      | EPA 3010        | MPRP/2671 | EPA 6010          | ICP/2530         |
| 2510157001 | MW-6       | EPA 5030B/8260  | MSV/5966  |                   |                  |
| 2510157002 | MW-1       | EPA 5030B/8260  | MSV/5966  |                   |                  |
| 2510157003 | MW-5       | EPA 5030B/8260  | MSV/5966  |                   |                  |
| 2510157004 | MW-2       | EPA 5030B/8260  | MSV/5987  |                   |                  |
| 2510157005 | MW-3       | EPA 5030B/8260  | MSV/5966  |                   |                  |
| 2510157006 | MW-9       | EPA 5030B/8260  | MSV/5966  |                   |                  |
| 2510157007 | MW-GW-1    | EPA 5030B/8260  | MSV/5987  |                   |                  |
| 2510157008 | DUP-1      | EPA 5030B/8260  | MSV/5987  |                   |                  |
| 2510157009 | TRIP BLANK | EPA 5030B/8260  | MSV/5966  |                   |                  |
| 2510157001 | MW-6       | NWTPH-Gx        | MSV/5967  |                   |                  |
| 2510157002 | MW-1       | NWTPH-Gx        | MSV/5967  |                   |                  |
| 2510157003 | MW-5       | NWTPH-Gx        | MSV/5967  |                   |                  |
| 2510157004 | MW-2       | NWTPH-Gx        | MSV/5967  |                   |                  |
| 2510157005 | MW-3       | NWTPH-Gx        | MSV/5967  |                   |                  |
| 2510157006 | MW-9       | NWTPH-Gx        | MSV/5967  |                   |                  |
| 2510157007 | MW-GW-1    | NWTPH-Gx        | MSV/5967  |                   |                  |
| 2510157008 | DUP-1      | NWTPH-Gx        | MSV/5967  |                   |                  |
| 2510157009 | TRIP BLANK | NWTPH-Gx        | MSV/5967  |                   |                  |



**Section A**

**Required Client Information:**

Company: ARCADIS  
Address: 2300 Eastlake Ave E  
Seattle WA 98102  
Email To: Scott Zorn  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
Requested Due Date/TAT: \_\_\_\_\_

**Section B**

**Required Project Information:**

Report To: Sam Miles  
Copy To: Al Kahal  
Purchase Order No.: GPOBPNANA48.00000  
Project Name: Former ARCO 11060  
Project Number: 11060

**Section C**

**Invoice Information:**

Attention: \_\_\_\_\_  
Company Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Pace Quote Reference: \_\_\_\_\_  
Pace Project Manager: \_\_\_\_\_  
Pace Profile #: 22095/L12

Page: \_\_\_\_\_ of \_\_\_\_\_

1467535

**REGULATORY AGENCY**

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER  
☐ UST ☐ RCRA ☐ OTHER \_\_\_\_\_

Site Location

STATE: WA

**Requested Analysis Filtered (Y/N)**

| ITEM # | Section D<br>Required Client Information | Matrix Codes<br>MATRIX / CODE | MATRIX CODE<br>(see valid codes to left) | SAMPLE TYPE<br>(G=GRAB C=COMP) | COLLECTED |  |  |  | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives |  |  |  |  |  |  |  | Analysis Test ↓ | Y/N |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | </ |
|--------|------------------------------------------|-------------------------------|------------------------------------------|--------------------------------|-----------|--|--|--|---------------------------|-----------------|---------------|--|--|--|--|--|--|--|-----------------|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|
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| ADDITIONAL COMMENTS   | RELINQUISHED BY / AFFILIATION | DATE     | TIME | ACCEPTED BY / AFFILIATION | DATE     | TIME | SAMPLE CONDITIONS |   |   |
|-----------------------|-------------------------------|----------|------|---------------------------|----------|------|-------------------|---|---|
| no silica gel cleanup | Ross Lagrandeur / Arcadis     | 11-29-11 | 2:15 | Celene Weaver / PACE      | 11/29/11 | 1415 | 11.6              | Y | Y |
|                       |                               |          |      |                           |          |      | 12.3              |   |   |
|                       |                               |          |      |                           |          |      | 11.3              |   |   |
|                       |                               |          |      |                           |          |      |                   |   |   |

ORIGINAL

**SAMPLER NAME AND SIGNATURE**

PRINT Name of SAMPLER: ROSS LAGRANDEUR

SIGNATURE of SAMPLER: [Signature]

DATE Signed

(MM/DD/YY): 11-29-11

Temp in °C

Received on Ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)



# Sample Container Count

2510157



CLIENT: Arcadis

COC PAGE 1 of 1

COC ID# \_\_\_\_\_

Trip Blank(s) Provided?

Y / N

| Sample Line Item | VG9H | AG1H            | AG1U | BP1U | BP2U | BP3U | BP3N            | BP3S | WGKU | WGFU | WG2U | DG9M | DG9B | VG9W | VSG | Comments |
|------------------|------|-----------------|------|------|------|------|-----------------|------|------|------|------|------|------|------|-----|----------|
| 1                | 6    | 2 <sup>22</sup> |      |      |      |      | 1 <sup>22</sup> |      |      |      |      |      |      |      |     |          |
| 2                | ↓    | ↓               |      |      |      |      | ↓               |      |      |      |      |      |      |      |     |          |
| 3                | ↓    | ↓               |      |      |      |      | ↓               |      |      |      |      |      |      |      |     |          |
| 4                | ↓    | ↓               |      |      |      |      | ↓               |      |      |      |      |      |      |      |     |          |
| 5                | ↓    | 3               |      |      |      |      | ↓               |      |      |      |      |      |      |      |     |          |
| 6                | ↓    | 2               |      |      |      |      | ↓               |      |      |      |      |      |      |      |     |          |
| 7                | ↓    | ↓               |      |      |      |      | ↓               |      |      |      |      |      |      |      |     |          |
| 8                | ↓    | ↓               |      |      |      |      | ↓               |      |      |      |      |      |      |      |     |          |
| 9                | 4    |                 |      |      |      |      |                 |      |      |      |      |      |      |      |     |          |
| 10               |      |                 |      |      |      |      |                 |      |      |      |      |      |      |      |     |          |
| 11               |      |                 |      |      |      |      |                 |      |      |      |      |      |      |      |     |          |
| 12               |      |                 |      |      |      |      |                 |      |      |      |      |      |      |      |     |          |

|      |                                |      |                              |      |                                            |
|------|--------------------------------|------|------------------------------|------|--------------------------------------------|
| AG1H | 1 liter HCL amber glass        | BP2S | 500mL H2SO4 plastic          | JGFU | 4 oz amber glass soil jar                  |
| AG1U | 1liter unpreserved amber glass | BP2U | 500mL unpreserved plastic    | WGKU | 8 oz clear glass soil jar                  |
| AG2S | 500mL H2SO4 amber glass        | BP2Z | 500mL NaOH, Zn Ac            | WGFU | 4 oz clear glass soil jar                  |
| AG2U | 500mL unpreserved amber glass  | BP3C | 250mL NaOH plastic           | WG2U | 2 oz clear glass soil jar                  |
| AG3S | 250mL H2SO4 amber glass        | BP3N | 250mL HNO3 plastic           | JGFM | 4 oz amber glass soil jar with MeOH        |
| BG1H | 1 liter HCL clear glass        | BP3S | 250mL H2SO4 plastic          | VG9U | 40mL unpreserved clear vial                |
| BG1U | 1 liter unpreserved glass      | BP3U | 250mL unpreserved plastic    | VG9W | 40mL clear vial pre-weighted with DI water |
| BP1N | 1 liter HNO3 plastic           | DG9B | 40mL Na Bisulfate clear vial | VSG  | Headspace septa vial                       |
| BP1S | 1 liter H2SO4 plastic          | DG9H | 40mL HCL amber voa vial      | VG9H | 40mL HCL clear vial                        |
| BP1U | 1 liter unpreserved plastic    | DG9M | 40mL MeOH clear vial         | WGFU | 4oz wide jar w/hexane wipe                 |
| BP1Z | 1 liter NaOH, Zn, Ac           | DG9T | 40mL Na Thio amber vial      | VG9T | 40mL Na Thio. clear vial                   |
| BP2N | 500mL HNO3 plastic             | DG9U | 40mL unpreserved amber vial  | ZPLC | Ziploc Bag                                 |
| BP2O | 500mL NaOH plastic             | I    | Wipe/Swab                    | U    | Summa Can                                  |



2510157



## Sample Condition Upon Receipt

Client Name: Arcadis

Project # \_\_\_\_\_

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace Other \_\_\_\_\_

Tracking #: \_\_\_\_\_

Custody Seal on Cooler/Box Present: ☒ Yes ☐ No Seals intact: ☒ Yes ☐ NoPacking Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other \_\_\_\_\_ Temp. Blank Yes ☒ NoThermometer Used 132013 of 101731962 or 226099 Type of Ice: Wet Blue None ☒ Samples on ice, cooling process has begunCooler Temperature 11.6°C, 12.3°C, 11.3°C Biological Tissue is Frozen: Yes NoTemp should be above freezing  $\leq 6^{\circ}\text{C}$ 

Comments:

Date and Initials of person examining contents: 11/29/11 CW

|                                                                                            |                                                                                                  |                             |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-----------------------------|
| Chain of Custody Present:                                                                  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1.                          |
| Chain of Custody Filled Out:                                                               | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2.                          |
| Chain of Custody Relinquished:                                                             | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3.                          |
| Sampler Name & Signature on COC:                                                           | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4.                          |
| Samples Arrived within Hold Time:                                                          | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5.                          |
| Short Hold Time Analysis (<72hr):                                                          | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 6.                          |
| Rush Turn Around Time Requested:                                                           | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 7.                          |
| Follow Up / Hold Analysis Requested:                                                       | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 8.                          |
| Sufficient Volume:                                                                         | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9.                          |
| Correct Containers Used:                                                                   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10.                         |
| -Pace Containers Used:                                                                     | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |                             |
| Containers Intact:                                                                         | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 11.                         |
| Filtered volume received for Dissolved tests                                               | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 12.                         |
| Sample Labels match COC:                                                                   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13.                         |
| -Includes date/time/ID/Analysis Matrix: <u>WT</u>                                          |                                                                                                  |                             |
| All containers needing preservation have been checked.                                     | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 14.                         |
| All containers needing preservation are found to be in compliance with EPA recommendation. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |                             |
| Exceptions: VOA, coliform, TOC, O&G                                                        |                                                                                                  | Initial when completed      |
|                                                                                            |                                                                                                  | Lot # of added preservative |
| Samples checked for dechlorination:                                                        | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 15.                         |
| Headspace in VOA Vials (>6mm):                                                             | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 16.                         |
| Trip Blanks Present:                                                                       | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 17.                         |
| Trip Blank Custody Seals Present                                                           | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |                             |
| Pace Trip Blank Creation Date: <u>100511</u>                                               |                                                                                                  |                             |

## Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: S. McQuire Date/Time: 11/29/11

Comments/ Resolution:

Per client - do not run MTBE despite it being on the COC. RSM

Project Manager Review: RSMDate: 11/29/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)