July 2012

Mr. Forest Arnold
Maryland Department of the Environment
Oil Control Program
1800 Washington Blvd.
Baltimore, MD 21230

**Re: Second Quarter 2012 Status Report**
**Third Party Shell Service Station #137675**
**15541 New Hampshire Avenue, Silver Spring, MD**
**MDE Case # 03-0695MO1**

Dear Mr. Arnold:

On behalf of Motiva Enterprises LLC (Motiva), URS Corporation (URS) is submitting the Second Quarter 2012 Site Status Report for the above referenced site. This report presents the site activities and sampling results for the Second Quarter of 2012.

If you have any questions regarding the Quarterly Status Report or require additional information, please do not hesitate to contact Mr. Doug Weimer, Motiva, at 703.272.7097 or the undersigned at 301.820.3000.

Sincerely,
**URS CORPORATION**

Jenna Anthony

Adrian Rogus

Jenna Anthony
Site Manager

Adriane M. Rogers
Project Manager

Attachment

Cc: Doug Weimer – Motiva Enterprises, LLC
Forest Arnold - MDE ( 2 additional copies w/CD)
George Rudy – owner
Philip Mitchell – Mitchell Companies
Reference Librarian – Fairland Regional Library

URS Corporation
12420 Milestone Center Drive, Suite 150
Germantown, MD 20876
Tel: 301-820-3000
Fax: 301-820-3009

# SECOND QUARTER 2012 QUARTERLY STATUS REPORT

## FORMER SHELL SERVICE STATION #137675
## 15541 NEW HAMPSHIRE AVE.
## SILVER SPRING, MD
MDE CASE #03-0695 MO1

*Prepared for*

Motiva Enterprises LLC
4094 Majestic Lane
PMB 224
Fairfax, VA 22033

*And*

Maryland Department of the Environment
Oil Control Program
1800 Washington Blvd.
Baltimore, MD 21230

July 2012

URS Corporation
12420 Milestone Center Drive, Suite 150
Germantown, MD 20876
Phone (301) 820-3000

**REPORTING PERIOD:** April 1, 2012 – June 30, 2012

**AGENCY CONTACT:** Mr. Forest Arnold

**MOTIVA CONTACT:** Mr. Doug Weimer, (703) 272-7097

**URS CONTACT:** Ms. Adriane M. Rogers, (301) 820-3241

## 1.0 SITE DESCRIPTION

Site Use: Former Shell Service Station, currently Citgo station.

Surrounding Area: The Site is located in a mixed commercial and residential area.

Lithology: The overburden sequence, which is formed as rolling upland and steep sided strike valleys, is rarely more than 100 feet thick. In the immediate site area, the overburden is 60-70 feet thick. The overburden consists of primarily micaceous saprolite and is floored by a weathered schist bounding the competent bedrock zone. Monitoring wells in the weathered schist are screened approximately 63-80 ft below ground surface (bgs) (deep wells (D)), while wells screened in the bedrock aquifer are located in the range of 70-100 ft bgs (rock wells (R)). The bedrock geology in the area of the Site is primarily comprised of schist containing mica, quartz and garnet with pelitic origins. The overburden (saprolite) mineralogy likely consists of oxides and clay-species pseudomorphs of the original schist which have been altered during in-situ chemical weathering from both historic and current groundwater interactions. Relict foliation, evident in the saprolitic overburden, has been noted as horizontal to sub-horizontal.

Sensitive Receptors: **Basements / Underground Receptors:** There are single-family homes, many with basements, northwest of the site on Bryants Nursery Road.

**Surface Water / Wetlands**: The surface water bodies in the vicinity of the Site include two storm water runoff ponds owned by the Maryland Department of Transportation (approximately 400 feet west-southwest and approximately 800 feet north-northeast, respectively), an unnamed pond (approximately 880 feet west-southwest), Bryants Nursery Run (approximately 1,200 feet west), and an intermittent stream (approximately 600 feet northwest). There are no wetlands immediately downgradient of the Site.

**Potable Wells**: There are potable wells in use within 2,500 feet of the station on New Hampshire Avenue and Bryants Nursery Road. A public water main (WSSC) has been installed on Bryants Nursery Road extending to houses 710 and 711. At the time of this report, all homes which can be connected are connected to this water main. All potable carbon treatment units have been removed at this time.

## 2.0 SITE HISTORY

- In September 2002, the Shell Station was closed for business.
- In November 2002, underground storage tank (UST) and line removal activities took place. Three 10,000-gallon gasoline USTs, three hydraulic lifts, one 1,000-gallon heating oil UST, and one 1,000-gallon used oil UST were removed from the ground.
- In February 2003, a Work plan and Tank Removal Report was submitted to the

Maryland Department of the Environment (MDE) and recommended the installation of four monitoring wells on site.

- In August 2003, MDE gave verbal direction to Motiva to sample the area's potable wells.
- In September 2003, the first round of potable well sampling was initiated. Samples were collected from 15526 and 15529 New Hampshire Avenue.
- In October 2003, the second round of potable well sampling was initiated. Samples were collected from seventeen (17) potable wells on Bryants Nursery Road (611, 621, 650, 651, 660, 661, 670, 700, 710, 711, 720, 721, 730, 731, 740, 741, and 751) located adjacent from the station across New Hampshire Avenue and one (1) potable well on Snider Lane (715) located northeast of the station.
- In November 2003, Point of Entry Treatment (POET) filtration systems were installed on potable wells of three (3) homes on Bryants Nursery Road (720, 730, and 731).
- From December 2003 to January 2004, monitoring wells MW-01 through MW-06 were installed.
- In February 2004, monitoring wells MW-05S, MW-06S, MW-06D, MW-07S, MW-08S, MW-08D, and MW09S were installed.
- In March 2004, monitoring wells MW-05D, MW-07D, MW-09D, and MW-10 were installed.
- In March 2004, a soil vapor extraction (SVE) test was conducted onsite.
- In April 2004, monitoring wells MW-11S and MW-11D were installed.
- In June 2004, bedrock wells MW-05R, MW-06R, and MW-11R were installed, including rock coring, packer & geophysical testing.
- In June 2004, a groundwater pump and treat system was installed onsite. The system was connected to monitoring wells MW-01, MW-03, and MW-10 and consisted of two (2) 2,000-lb liquid phase granular activated carbon (LGAC) units prior to discharge.
- In July 2004, the onsite groundwater pump and treat system was started.
- In August 2004, pump tests were completed to determine the radius of influence of monitoring wells MW-05D and MW-06D.
- In September 2004, an SVE pilot test was performed on monitoring wells MW-01, MW-03, and MW-10.
- In March 2005, the onsite SVE system was started.
- In July 2005, three (3) nested wells were installed (750 BNR, 750 BND, and 750 BNS) at 750 Bryants Nursery Rd.
- In September 2005, MDE approved the proposed extension of the groundwater pump and treat system across New Hampshire Avenue to monitoring wells MW-05S, MW-11S, MW-06D, and MW-08D, if further remediation was needed.
- In December 2005, Road Opening Permit was approved by Montgomery County to conduct horizontal drilling under New Hampshire Avenue and extend remediation system piping to monitoring wells MW-05S, MW-11S, MW-06D, and MW-08D located across New Hampshire Avenue.
- In August 2006, the environmental management was transferred from EnviroTrac to Groundwater Environmental Services (GES). MDE sent an update letter regarding the Site to the Cloverly Civic Association.

- In March 2007, MDE sent a letter to the resident at 660 Bryants Nursery Road indicating that Shell would be sampling their potable well on a monthly basis for a period of one year and indicating that hydrofracturing during the installation of their new potable well might have contributed to the initial detections of petroleum constituents in their new well.
- In March 2007, MDE issued a letter indicating that the remediation shed must be upgraded by March 30, 2007.
- In May 2007, a Subsurface Investigation Work Plan was prepared recommending that deep and rock groundwater monitoring points be installed in the vicinity of the former potable well at 730 Bryants Nursery Road. A Pilot Test Work Plan to address the offsite impacts in the deep groundwater aquifer was submitted. The Work Plan recommended using vacuum enhanced groundwater extraction (VEGE) technology to complete a Pilot Test using existing monitoring well MW-06D and a new well to be installed in the vicinity of monitoring wells MW-06D and MW-06R. The plans were approved by MDE with no modifications.
- In June 2007, monitoring well MW-12 was installed in the vicinity of monitoring wells MW-06S, MW-06D, and MW-06R to conduct pilot testing activities.
- In June 2007, pilot testing activities of the deep offsite aquifer were conducted as proposed in the May 2007 Pilot Test Work Plan.
- In August 2007, a SVE system shut-down request was submitted to MDE and approved.
- In September 2007, the SVE system was shut-down.
- In May 2008, MDE issued a directive with deadlines for several project milestones. The following milestones were included: (1) prepare a Corrective Action Plan (CAP) Addendum including pilot test results and preliminary offsite system design; (2) complete additional pump testing; (3) complete a Pilot Test Report/Extent of System Capture and Final Offsite System Design Report; and (3) provide an estimated offsite system start-up date.
- In September 2008, GES submitted a Subsurface Investigation Work Plan of Wooded Property (Goblin Property, located on Bryants Nursery Road across from the Site). The Work Plan proposed the installation of two sets of temporary deep and shallow 2-inch monitoring well clusters (4 wells total) in order to determine if the groundwater flowing beneath the Property was impacted by the operation of the Former Shell Station.
- In October 2008, MDE approved the Subsurface Investigation Work Plan of Wooded Property with the following modifications: (1) an additional cluster of monitoring wells must be installed on the Property; and (2) the monitoring wells must be installed as permanent wells.
- From October to November 2008, monitoring wells MW-13S, MW-13D, MW-14S, MW-14D, MW-15S, and MW-15D were installed in the Wooded Property on Bryants Nursery Road.
- In December 2008, GES submitted a Wooded Lot Site Assessment Report to MDE containing a recommendation for additional delineation by installing two additional monitoring well clusters on the Property.
- In January 2009, MDE approved the recommendation to install two additional well clusters on the Wooded Property with no modifications. MDE noted that the monitoring wells on the Wooded lot should be sampled quarterly.
- In March 2009, monitoring wells MW-16S, MW-16D, MW-17S, and MW-17D were installed in the Wooded lot on Bryants Nursery Road and monitoring well MW-18 was installed in front of the residence on the church Property.

- In March 2009, MDE sent a Site Status Letter to the Wooded Property owner, P. Golkin, to inform him of the history of the Site.
- In July 2009, a Revised Pump Test Work Plan was submitted to MDE. The Work Plan proposed the completion of a short term weathered rock zone pumping test and a longer term overburden pumping test in the area of the proposed remediation system (Bryants Nursery Road on the church Property across from the Wooded lot) to evaluate aquifer parameters and vertical and horizontal flow in this area.
- In August 2009, MDE approved the Revised Pump Test Work Plan with modifications to the groundwater sampling analyses and the requirement that a CAP Addendum must be submitted within 60 days of the completion of the pump test.
- In August 2009, a pump test was conducted as outlined in the Revised Pump Test Work Plan.
- In November 2009, a CAP Addendum was submitted to MDE. The corrective action proposed within the CAP Addendum was the installation of an offsite groundwater extraction remediation system on the church Property and the installation of an offsite recovery well network that would spatially cover the width of the delineated plume and address the shallow and deep overburden zones.
- In March 2010, MDE approved the CAP Addendum Work Plan with the following modifications: (1) submittal of a detailed implementation plan; and (2) one additional recovery well to be installed on the Wooded Property, two additional monitoring well clusters to be installed on the Wooded Property, and two additional monitoring well clusters to be installed further down Bryants Nursery Road beyond the proposed recovery wells.
- From June 2010 to July 2010, monitoring wells 730 BNS, 730 BND, and recovery well RW-22 were installed.
- In September 2010, MDE approved the CAP Implementation Plan with no modifications.
- In September 2010, construction activities for the offsite groundwater recovery system being installed on the Wooded area of the 15600 New Hampshire Avenue Property (church) began.
- In September 2010, recovery well RW-19 was installed.
- From October 2010 to November 2010, recovery wells RW-20, RW-21, and RW-23 were installed. All recovery wells (RW-19 through RW-23) were connected to the offsite system. Monitoring well clusters MW-24S, MW-24D, MW-25S, MW-25D, MW-26S, and MW-26D were also installed.
- In December 2010, the offsite groundwater recovery system was started.
- In January 2011, the environmental management was transferred from GES to URS Corporation (URS).
- In March 2011, a Supplemental Site Assessment Report was submitted to MDE. The report detailed the installation of the recovery wells and monitoring well clusters required by the CAP Addendum and CAP Addendum approval.
- In November 2011, a Request to Modify Groundwater Sampling Schedule was submitted to MDE.
- In December 2011, MDE approved the Request to Modify Groundwater Sampling Schedule with the following modification: (1) include monitoring wells MW-24S, MW-24D, MW-25S, and MW-25D.
- On January 16, 2012, a Recovery Well Installation and Delineation Work Plan was submitted to MDE.

- On January 30, 2012, at the Cloverly Civic Association Community Meeting Motiva and URS presented the current status of the Site to the attendees.
- On January 31, 2012, MDE approved the Recovery Well Installation and Delineation Work Plan.
- On February 2, 2012, the onsite groundwater extraction system was shut down.
- On February 10, 2012, a Request for Access letter was sent to the residence of 721 Bryants Nursery Road for installation of two sentinel wells in their yard.
- On March 12 -14, 2012, recovery well RW-27 was installed.
- On April 2, 2012, URS sent email correspondence to MDE indicating that the residence of 721 Bryants Nursery Road denied installation of the two downgradient sentinel wells in their yard. Additionally, attached to the email correspondence was a map depicting two new proposed locations for the sentinel wells in the public right of way directly in front of 721 Bryants Nursery Road.
- On April 3, 2012, MDE approved, through email correspondence, the new locations of the sentinel wells in front of the residence of 721 Bryants Nursery Road contingent upon obtaining right of way access.
- From May 30 to June 1, 2012, the components of the onsite system were permanently disconnected and removed from the Site.
- In June 2012, trenching and piping was completed from an existing system hook-up located at recovery well RW-20 to recovery well RW-27.

**Previous Reports**

- Work Plan & Tank Removal Report, February 2003
- Road Opening Permit, December 2005
- Subsurface Investigation Work Plan, May 2007
- Pilot Test Work Plan, May 2007
- Corrective Action Plan, May 2008
- Subsurface Investigation Work Plan, September 2008
- Wooded Lot Site Assessment Report, December 2008
- Revised Pump Test Work Plan, July 2009
- Corrective Action Plan, November 2009
- Corrective Action Plan Addendum, March 2010
- Corrective Action Plan Implementation Plan, September 2010
- Supplemental Site Assessment Report, March 2011
- Request to Modify Groundwater Sampling Schedule, November 2011
- Recovery Well Installation and Delineation Work Plan, January 2012

## 3.0 ACTIVITIES THIS QUARTER

**Groundwater Gauging and Monitoring**

All site monitoring wells were gauged on April 30, 2012. During this quarter, depth to water measurements recorded from site wells ranged from 5.99 feet bgs in monitoring well MW-09S on April 30, 2012 to 47.71 feet bgs in recovery well RW-22 on April 30, 2012. The groundwater gauging data is included as Table 1. The shallow hydraulic gradient for this quarter is illustrated on Figure 4. The deep overburden hydraulic gradient for this quarter is illustrated on Figure 5. The bedrock hydraulic gradient

for this quarter is illustrated on Figure 6. Based on the April 30, 2012 gauging data, apparent groundwater flow direction is northwest from the site in the three hydrologic zones.

Weekly gauging is also completed on select Bryants Nursery Road (BNR) monitoring wells (710 BNR, 711 BNR, 720 BNR, 721 BNR, and 740 BNR). These select monitoring wells are gauged weekly to monitor the influence that the offsite system has on the water resource that supplies the offsite potable wells while it is pumping groundwater. Based on the weekly gauging events, the offsite groundwater pump and treat system is not influencing the water resource supplying the offsite potable wells. A graph showing the groundwater elevation trends over time for these wells is in Appendix B.

**Liquid Phase Hydrocarbon (LPH) Detection**

LPH was not observed in any monitoring wells during the Second Quarter 2012. LPH has never been observed at this site.

**Groundwater Sampling**

During the Second Quarter 2012, groundwater samples were collected from eight groundwater recovery wells (RW-01, RW-03, RW-19 through RW-23, and RW-27), 40 monitoring wells (MW-02, MW-04 through MW-18, MW-24 through MW-26, 730 BNS, 730 BND, 750 BND, and 750 BNS), five former potable wells (710 BNR, 711 BNR, 720 BNR, 721 BNR, and 750 BNR), and two tank field wells (TF-01 and TF-02). A groundwater sample was not collected from recovery well RW-10 due to an inaccessible well vault. The samples were submitted to Accutest Laboratories (New Jersey) under chain of custody for analysis of benzene, toluene, ethyl benzene, xylenes, total BTEX, methyl tert butyl ether (MTBE), and tert butyl alcohol (TBA) by EPA Method 8260B, and TPH-GRO and TPH-DRO by EPA Method 8015C.

The laboratory analytical results are summarized in Tables 2. Benzene, toluene, ethylbenzene, xylenes, total BTEX, MTBE, TBA, TPH-GRO, and TPH-DRO concentrations are presented on Figure 7. The laboratory analytical reports are provided in Appendix C. The maximum dissolved phase hydrocarbon concentrations, in micrograms per liter (µg/L), of select analytes detected in the groundwater samples collected during this quarter are as follows:

- Benzene: 81.9 µg/L (TF-01) Sector: onsite
- Toluene: 43.1 µg/L (TF-01) Sector: onsite
- Ethylbenzene: 0.35J µg/L (RW-01) Sector: onsite
- Total Xylenes: 11.8 µg/L (TF-01) Sector: onsite
- Total BTEX: 137.07 µg/L (TF-01) Sector: onsite
- MTBE: 4,420 µg/L (MW-13S) Sector: 240-640 feet from site
- TBA: 3,130 µg/L (MW-13S) Sector: 240-640 feet from site
- TPH-GRO: 5,060 µg/L (MW-13S) Sector: 240-640 feet from site
- TPH-DRO: 798 µg/L (MW-11R) Sector: 80-240 feet from site

**Onsite Groundwater Concentration Trends**

Based upon review of historical analytical groundwater data, chemical concentrations in groundwater samples from onsite monitoring wells indicate generally decreasing dissolved-phase concentrations and concentrations below detection limits at well locations for benzene, BTEX, and MTBE. Benzene and MTBE concentrations in all onsite wells are below the MDE Groundwater Cleanup Standards of 5 µg/L and 20 µg/L, respectively, except for tank field well TF-01 which exceeds the standard for Benzene. Results for analytes with the lab flag “I” are between the report limit and method detection limit. For benzene, total BTEX, and MTBE concentrations, the following trends have been observed for onsite monitoring wells:

- MW-02: Benzene concentrations have generally remained below the detection limits from January 6, 2004 to May 3, 2012. Total BTEX concentrations have generally remained below the detection limits from January 6, 2004 to May 3, 2012. MTBE concentrations have decreased from 8.9 µg/L on January 6, 2004 to below the detection limits on May 3, 2012.

- MW-04: Benzene concentrations have decreased from a concentration of 3.9 µg/L on January 6, 2004 to below the detection limits on May 3, 2012. Total BTEX concentrations have decreased from a concentration of 5.5 µg/L on January 6, 2004 to below the detection limits on May 3, 2012. MTBE concentrations have decreased from a concentration of 49.3 µg/L on January 6, 2004 to 1.2 µg/L on May 3, 2012.
- RW-01: Benzene concentrations have decreased from a concentration of 17.4 µg/L on January 6, 2004 to an estimated concentration of 0.27 µg/L on May 4, 2012. Total BTEX concentrations have decreased from a concentration 62.2 µg/L on January 6, 2004 to 8.42 µg/L on May 4, 2012. MTBE concentrations have decreased from a concentration 156 µg/L on January 6, 2004 to below the detection limits of 1.0 µg/L on May 4, 2012.
- RW-03: Benzene concentrations have decreased from a concentration of 22 µg/L on January 6, 2004 to 2.0 µg/L on May 4, 2012. Total BTEX concentrations have decreased from a concentration of 191 µg/L on January 6, 2004 to 2.0 µg/L on May 4, 2012. MTBE concentrations have decreased from a concentration of 67,600 µg/L on January 6, 2004 to 1.1 µg/L on May 4, 2012.
- RW-10: Benzene concentrations have decreased from a concentration of 354 µg/L on April 5, 2004 to 14.3 µg/L on February 1, 2012. Total BTEX concentrations have decreased from a concentration of 898 µg/L on April 5, 2004 to 26.42 µg/L on February 1, 2012. MTBE concentrations have decreased from a concentration of 43,500 µg/L on April 5, 2004 to 16.1 µg/L on February 1, 2012.
- TF-01: Benzene concentrations have decreased from a maximum of 265 µg/L on April 13, 2005 to 81.9 µg/L on May 4, 2012. Total BTEX concentrations have decreased from a maximum of 867.7 µg/L on April 13, 2005 to 137.07 µg/L on May 4, 2012. MTBE concentrations have decreased from a maximum of 93,500 µg/L on August 17, 2005 to 5.5 µg/L on May 4, 2012.
- TF-02: Benzene concentrations have decreased from a maximum of 481 µg/L on April 13, 2005 to 4.8 µg/L on May 4, 2012. Total BTEX concentrations have decreased from a maximum of 1,524 µg/L on April 13, 2005 to 13.6 µg/L on May 4, 2012. MTBE concentrations have decreased from a maximum of 148,000 µg/L on October 5, 2004 to 9.4 µg/L on May 4, 2012.

**Offsite Groundwater Concentration Trends**

80-240 feet from Site

Based upon review of historical analytical groundwater data, chemical concentrations in groundwater samples from monitoring wells located 80-240 feet from the Site indicate generally decreasing dissolved-phase concentrations and concentrations below detection limits at well locations for benzene, BTEX, and MTBE. Benzene and MTBE concentrations in all offsite wells located 80-240 feet from the Site are below the MDE Groundwater Cleanup Standards of 5 µg/L and 20 µg/L, respectively, except for monitoring wells MW-05S, MW-07S, and MW-11S which exceed the standard for MTBE. For benzene, total BTEX, and MTBE concentrations, the following trends have been observed for monitoring wells located 80-240 feet from the Site:

- Monitoring well MW-05D: Benzene concentrations have remained stable with a concentration of 0.3 µg/L on April 5, 2004 and a concentration below the detection limit of 1.0 µg/L on May 1, 2012. Total BTEX concentrations have remained stable with a 0.99 µg/L concentration on April 5, 2004 and a concentration below the detection limit of 4.0 on May 1, 2012. MTBE concentrations have decreased from 241 µg/L on April 5, 2004 to an estimated concentration of 0.69 on May 1, 2012.
- Monitoring well MW-05R: Benzene concentrations have generally remained below the detection limits from July 8, 2004 to May 1, 2012. Total BTEX concentrations have remained stable with a concentration of 0.21 µg/L on July 8, 2004 and a concentration below the detection limit of 4.0 µg/L on May 1, 2012. MTBE concentrations have decreased from a concentration of 61.8 µg/L on July 8, 2004 to below the detection limits of 1.0 µg/L on May 1, 2012.

- Monitoring well MW-05S: Benzene concentrations have decreased from a concentration of 9.2 µg/L on January 6, 2004 to below the detection limits of 1.0 µg/L on May 1, 2012. Total BTEX concentrations have decreased from a concentration of 10.5 µg/L on January 6, 2004 to below the detction limits of 4.0 µg/L on May 1, 2012. MTBE concentrations have decreased from a concentration of 7,630 µg/L on January 6, 2004 to 594 µg/L on May 1, 2012.
- Monitoring well MW-07D: Benzene concentrations have generally remained below the detection limits from April 5, 2004 to May 2, 2012. Total BTEX concentrations have generally remained below the detection limits from April 5, 2004 to May 2, 2012. MTBE concentrations have decreased from a concentration of 9.5 µg/L on April 5, 2004 to below the detection limits of 1.0 µg/L on May 2, 2012.
- Monitoring well MW-07S: Benzene concentrations have generally remained below the detection limits from April 5, 2004 to May 2, 2012. Total BTEX concentrations have generally remained below the detection limits from April 5, 2004 to May 2, 2012. MTBE concentrations have decreased from a concentration of 189 µg/L on April 5, 2004 to 22.2 µg/L on May 2, 2012.
- Monitoring well MW-09D: Benzene concentrations have generally remained below the detection limits from April 5, 2004 to May 3, 2012. Total BTEX concentrations have generally remained below the detection limits from April 5, 2004 to May 3, 2012. MTBE concentrations have decreased from a concentration of 3 µg/L on April 5, 2004 to an estimated concentration of 0.30 µg/L on May 3, 2012.
- Monitoring well MW-09S: Benzene concentrations have generally remained below the detection limits from April 5, 2004 to May 3, 2012. Total BTEX concentrations have generally remained below the detection limits from April 5, 2004 to May 3, 2012. MTBE concentrations have decreased from a concentration of 0.66 µg/L on April 5, 2004 to below detection limits of 1.0 µg/L on May 3, 2012.
- Monitoring well MW-11D: Benzene concentrations have generally remained below the detection limits from July 8, 2004 to May 1, 2012. Total BTEX concentrations have generally remained below the detection limit from July 8, 2004 to May 1, 2012. MTBE concentrations have decreased from a concentration of 62.2 µg/L on July 8, 2004 to a concentration of 3.8 µg/L on May 1, 2012.
- Monitoring well MW-11R: Benzene concentrations have generally remained below the detection limits from July 1, 2004 to May 2, 2012. Total BTEX concentrations have generally remained below the detection limits from July 1, 2004 to May 2, 2012. MTBE concentrations have decreased from a concentration of 26.4 µg/L on July 1, 2004 to 2.6 µg/L on May 2, 2012.
- Monitoring well MW-11S: Benzene concentrations have decreased from a concentration of 14.1 µg/L on July 8, 2004 to an estimated value of 0.29 J µg/L on May 2, 2012. Total BTEX concentrations have decreased from a concentration 14.1 µg/L on July 8, 2004 to 0.29 µg/L on May 2, 2012. MTBE concentrations have decreased from a concentration of 12,000 µg/L on July 8, 2004 to 804 µg/L on May 2, 2012.

<u>240-640 feet from the Site</u>

Based upon review of historical analytical groundwater data, chemical concentrations in groundwater samples from monitoring wells located 240-640 feet from the Site indicate generally decreasing dissolved-phase concentrations and concentrations below detection limits at well locations for benzene, BTEX, and MTBE. Benzene concentrations in five of the 32 wells were above the MDE Groundwater Cleanup Standard of 5 µg/L. However, all wells exhibit downward trends in benzene concentrations. MTBE concentrations in 26 of the 32 wells were above the MDE Groundwater Cleanup Standard of 20 µg/L. However, all wells exhibit downward trends in MTBE concentrations except three wells, which were likely influenced by the offsite pump and treat system operation drawing in the plume. Results for analytes with the lab flag “I” are between the report limit and method detection limit. For benzene, total BTEX, and MTBE concentrations, the following trends have been observed for monitoring wells located 240-640 feet from the Site:

- Monitoring well 750 BND: Benzene concentrations have generally remained below the detection limits from June 22, 2005 to May 4, 2012. Total BTEX concentrations generally remained below the detection limits from June 22, 2005 to May 4, 2012. MTBE concentrations

have decreased from a maximum concentration of 1,660 µg/L on March 11, 2010 to 958 µg/L on May 4, 2012.

- Monitoring well 750 BNS: Benzene concentrations have remained below detection limits from June 22, 2005 to May 2, 2012. Total BTEX concentrations have generally remained below detection limits from June 22, 2005 to May 2, 2012. MTBE concentrations have decreased from a maximum concentration of 3.13 µg/L on March 30, 2006 to an estimated value of 0.77 µg/L on May 2, 2012.
- Monitoring well 750 BNR: Benzene concentrations have generally remained below detection limits from October 3, 2003 to May 4, 2012. Total BTEX concentrations have remained constant, with a 0.23 µg/L concentration on June 22, 2005 to below the detection limit on May 4, 2012. MTBE concentrations have generally remained stable with concentrations of 51 µg/L on October 3, 2003 and 50.5 µg/L on May 4, 2012.
- Monitoring well MW-06D: Benzene concentrations have generally remained stable with a concentration below the detection limits on April 5, 2004 and an estimated concentration of 1.4 µg/L on May 2, 2012. Total BTEX concentrations have decreased from a maximum concentration of 119.7 µg/L on October 4, 2004 to 1.4 µg/L on May 2, 2012. MTBE concentrations have decreased from a maximum concentration of 19,000 µg/L on June 24, 2008 to 2,100 µg/L on May 2, 2012.
- Monitoring well MW-06R: Benzene concentrations have generally remained below the detection limits from July 8, 2004 to May 2, 2012. Total BTEX concentrations have decreased from a concentration of 76.6 µg/L on July 8, 2004 to below the detection limit of 4.0 µg/L on May 2, 2012. MTBE concentrations have decreased from a concentration of 74.9 µg/L on July 8, 2004 to 63.1 µg/L on May 2, 2012.
- Monitoring well MW-06S: Benzene concentrations have generally remained below the detection limits from January 6, 2004 to May 2, 2012. Total BTEX concentrations have also generally remained below the detection limits from January 6, 2004 to May 2, 2012. MTBE concentrations have decreased from a concentration of 135 µg/L on January 6, 2004 to an estimated concentration of 0.92 µg/L on May 2, 2012.
- Monitoring well MW-08D: Benzene concentrations have decreased from a concentration of 2.525 µg/L on February 20, 2009 to a concentration of 1.6 µg/L on May 3, 2012. Total BTEX concentrations have decreased from a maximum concentration of 17.345 µg/L on February 20, 2009 to 4.0 µg/L on May 3, 2012. MTBE concentrations have increased from a concentration of 80 µg/L on April 5, 2004 to 3,400 µg/L on May 3, 2012.
- Monitoring well MW-08S: Benzene concentrations have generally remained below the detection limits from April 5, 2004 to May 4, 2012. Total BTEX concentrations have generally remained below the detection limits from April 5, 2004 to May 4, 2012. MTBE concentrations have generally remained stable with concentrations of 15.6 µg/L on April 5, 2004 and 15.8 µg/L on May 4, 2012.
- Monitoring well MW-12: Benzene concentrations have decreased from a concentration 3.96 µg/L on June 22, 2007 to an estimated concentration of 0.56 J µg/L on May 2, 2012. Total BTEX concentrations have decreased from 9.31 µg/L on June 22, 2007 to 0.56 µg/L on May 2, 2012. MTBE concentrations have decreased from a maximum concentration of 11,000 µg/L on March 25, 2008 to 1,930 µg/L on May 2, 2012.
- Monitoring well MW-13D: Benzene concentrations have decreased from a concentration 9.753 µg/L on November 25, 2008 to an estimated concentration of 0.80 J µg/L on May 1, 2012. Total BTEX concentrations have decreased from a concentration of 12.86 µg/L on November 25, 2008 to an estimated concentration of 0.80 µg/L on May 1, 2012. MTBE concentrations have decreased from a concentration of 759.4 µg/L on November 25, 2008 to 193 µg/L on May 1, 2012.
- Monitoring well MW-13S: Benzene concentrations have decreased from a concentration of 29.33 µg/L on November 25, 2008 to 19.5 µg/L on May 1, 2012. Total BTEX concentrations have decreased from a concentration of 33.964 µg/L on November 25, 2008 to 20.6 µg/L on May 1, 2012. MTBE concentrations have decreased from a concentration of 5,527 µg/L on November 25, 2008 to 4,420 µg/L on May 1, 2012.
- Monitoring well MW-14D: Benzene concentrations have decreased from a concentration of 85.08 µg/L on November 25, 2008 to 44.3 µg/L on May 1, 2012. Total BTEX concentrations have decreased from a concentration of 110.27 µg/L on November 25, 2008 to 54.4 µg/L on

May 1, 2012. MTBE concentrations have increased from a concentration of 1,099 µg/L on November 25, 2008 to 3,890 µg/L on May 1, 2012.

- Monitoring well MW-14S: Benzene concentrations have decreased from a concentration 32.19 µg/L on November 25, 2008 to 2.1 µg/L on May 1, 2012. Total BTEX concentrations have decreased from a concentration 42.36 µg/L on November 25, 2008 to 3.08 µg/L on May 1, 2012. MTBE concentrations have decreased from a concentration 6,667 µg/L on November 25, 2008 to 1,350 µg/L on May 1, 2012.
- Monitoring well MW-15D: Benzene concentrations have decreased from a maximum concentration of 2.7 µg/L on February 17, 2011 to 2.1 µg/L on May 1, 2012. Total BTEX concentrations have also decreased from a maximum concentration of 2.7 µg/L on February 17, 2011 to 2.1 µg/L on May 1, 2012. MTBE concentrations have decreased from a maximum concentration of 768 µg/L on September 27, 2010 to 569 µg/L on May 1, 2012.
- Monitoring well MW-15S: Benzene concentrations have decreased from a concentration of 62.88 µg/L on November 25, 2008 to 2.4 µg/L on May 1, 2012. Total BTEX concentrations have decreased from a concentration of 80.57 µg/L on November 25, 2008 to 2.95 µg/L on May 1, 2012. MTBE concentrations have decreased from a concentration of 8,463 µg/L on November 25, 2008 to 1,260 µg/L on May 1, 2012.
- Monitoring well MW-16D: Benzene concentrations have decreased from a maximum concentration below of 78.9 µg/L on September 27, 2010 to 1.2 µg/L on May 1, 2012. Total BTEX concentrations have decreased from a maximum concentration of 90.9 µg/L on September 27, 2010 to 1.44 µg/L on May 1, 2012. MTBE concentrations have decreased from a maximum concentration of 3,060 µg/L on September 27, 2010 to 529 µg/L on May 1, 2012.
- Monitoring well MW-16S: Benzene concentrations have decreased from a concentration of 87.87 µg/L on May 7, 2009 to 22.5 µg/L on May 1, 2012. Total BTEX concentrations have decreased from a concentration of 118.67 µg/L on May 7, 2009 to 24.9 µg/L on May 1, 2012. MTBE concentrations have decreased from a maximum concentration of 4,410 µg/L on August 11, 2011 to 4,030 µg/L on May 1, 2012.
- Monitoring well MW-17D: Benzene concentrations have decreased from a maximum concentration of 17 µg/L on June 3, 2011 to 5.1 µg/L on May 1, 2012. Total BTEX concentrations have decreased from a maximum concentration of 17.31 µg/L on June 3, 2011 to 5.1 µg/L on May 1, 2012. MTBE concentrations have decreased from a maximum concentration of 540 µg/L on September 27, 2010 to 252 µg/L on May 1, 2012.
- Monitoring well MW-17S: Benzene concentrations have decreased from a maximum concentration of 54.3 µg/L on December 3, 2010 to 12.4 µg/L on May 1, 2012. Total BTEX concentrations have decreased from a maximum concentration of 58.72 µg/L on December 3, 2010 to 12.4 µg/L on May 1, 2012. MTBE concentrations have generally remained stable with a concentration of 971.3 µg/L on May 7, 2009 and 832 µg/L on May 1, 2012.
- Monitoring well MW-17W: Benzene concentrations have decreased from a concentration of 1.06 µg/L on May 7, 2009 to below detection limits on May 2, 2012. Total BTEX concentrations have decreased from a concentration of 4.21 µg/L on May 7, 2009 to below detection limits on May 2, 2012. MTBE concentrations have decreased from a concentration of 67.23 µg/L on May 7, 2009 to 48.8 µg/L on May 2, 2012.
- Monitoring well MW-18: Benzene concentrations have generally remained below detection limits from May 7, 2009 to May 2, 2012. Total BTEX concentrations have decreased from a concentration of 2.68 µg/L on May 7, 2009 to and estimated value of 2.0 µg/L on May 2, 2012. MTBE concentrations have increased from a concentration of 800.8 µg/L on May 7, 2009 to 2,330 µg/L on May 2, 2012.
- Monitoring well MW-24D: Benzene concentrations have remained below detection limits from December 6, 2010 to May 2, 2012. Total BTEX concentrations have remained below detection limits from December 6, 2010 to May 2, 2012. MTBE concentrations have decreased from 36.9 µg/L on December 6, 2010 to 8.8 µg/L on May 2, 2012.
- Monitoring well MW-24S: Benzene concentrations have generally remained stable with a concentration of 1.83 µg/L on December 6, 2010 and 3.8 µg/L on May 2, 2012. Total BTEX concentrations have generally remained stable with a concentration of 1.83 µg/L on December 6, 2010 and 3.8 µg/L on May 2, 2012. MTBE concentrations have generally remained stable with a concentration of 261 µg/L on December 6, 2010 and 185 µg/L on May 2, 2012.

- Monitoring well MW-25D: Benzene concentrations have remained below detection limits from December 6, 2010 to May 2, 2012. Total BTEX concentrations have remained below detection limits from December 6, 2010 to May 2, 2012. MTBE concentrations have decreased from 102 µg/L on December 6, 2010 to 80.2 µg/L on May 2, 2012.
- Monitoring well MW-25S: Benzene concentrations have decreased from 4.0 I µg/L on December 6, 2010 to an estimated concentration of 0.23 J µg/L on May 2, 2012. Total BTEX concentrations have decreased from 4 µg/L on December 6, 2010 to an estimated concentration of 0.23 µg/L on May 2, 2012. MTBE concentrations have decreased from 291 µg/L on December 6, 2010 to 18.9 µg/L on May 2, 2012.
- Monitoring well MW-26D: Benzene concentrations have generally remained stable with a concentration below the detection limit of 2.49 µg/L on December 6, 2010 to 2.5 µg/L on May 2, 2012. Total BTEX concentrations have decreased from a concentration of 13.36 µg/L on December 6, 2010 to 2.5 µg/L on May 2, 2012. MTBE concentrations have generally remained stable with a concentration of 1,260 µg/L on December 6, 2010 and 1,430 µg/L on May 2, 2012.
- Monitoring well MW-26S: Benzene concentrations have remained below detection limits from December 6, 2010 to May 2, 2012. Total BTEX concentrations have remained below detection limits from December 6, 2010 to May 2, 2012. MTBE concentrations have decreased from 96.7 µg/L on December 6, 2010 to 9.0 µg/L on May 2, 2012.
- Recovery well RW-19: Benzene concentrations have decreased from a concentration of 2.82 µg/L on September 27, 2010 to an estimated concentration 0.83 µg/L on May 3, 2012. Total BTEX concentrations have decreased from a concentration of 4.22 µg/L on September 27, 2010 to a concentration of 0.83 µg/L on May 3, 2012. MTBE concentrations have remined stable with a concentration of 294 µg/L on September 27, 2010 and a concentration of 622 µg/L on May 3, 2012.
- Recovery well RW-20: Benzene concentrations have generally remained stable with a concentration below the detection limit of 12.5 µg/L on December 6, 2010 and an estimated concentration of 3.8 µg/L on May 3, 2012. Total BTEX concentrations have generally remained stable with a concentration below the detection limit of 67 µg/L on December 6, 2010 and a concetration of 3.8 µg/L on May 3, 2012. MTBE concentrations have decreased from a maximum of 5,430 µg/L on December 6, 2010 to 1,440 µg/L on May 3, 2012.
- Recovery well RW-21: Benzene concentrations have generally remained stable from below the detection limit of 4.99 µg/L on December 6, 2010 to 1.6 µg/L on May 3, 2012. Total BTEX concentrations have generally remained stable from below the detection limit of 26.75 µg/L on December 6, 2010 to a concentration of 1.6 µg/L on May 3, 2012. MTBE concentrations have decreased from a maximum of 1,420 µg/L on December 6, 2010 to 386 µg/L on May 3, 2012.
- Recovery well RW-22: Benzene concentrations have decreased from a concentration of 25.7 µg/L on September 27, 2010 to an estimated concentration of 2.9 µg/L on May 3, 2012. Total BTEX concentrations have decreased from a concentration 36.2 µg/L on September 27, 2010 to an estimated concentration of 2.9 µg/L on May 3, 2012. MTBE concentrations have decreased from a concentration of 12,900 µg/L on September 27, 2010 to a concentration of 3,620 µg/L on May 3, 2012.
- Recovery well RW-23: Benzene concentrations have generally remained stable from 12.7 µg/L on December 6, 2010 to a concentration of 8.4 µg/L on May 3, 2012. Total BTEX concentrations have generally remained stable with a concentration of 12.7 µg/L on December 6, 2010 and 11.0 µg/L on May 3, 2012. MTBE concentrations have generally remained stable with a concentration of 2,300 µg/L on May 20, 2011 and a concentration of 2,130 µg/L on May 3, 2012.

<u>Greater than 640 feet from the Site</u>

Based upon review of historical analytical groundwater data, chemical concentrations in groundwater samples from monitoring wells located greater than 640 feet from the Site indicate generally decreasing dissolved-phase concentrations and concentrations below detection limits for benzene, BTEX, and MTBE. Benzene and MTBE concentrations in all offsite wells located greater than 640 feet from the Site are below the MDE Groundwater Cleanup Standards of 5 µg/L and 20 µg/L, respectively. For benzene,

total BTEX, and MTBE concentrations, the following trends have been observed for monitoring wells located greater than 640 feet from the Site:

- Monitoring well 710 BNR: Benzene concentrations have generally remained below the detection limits from October 18, 2003 to May 2, 2012. Total BTEX concentrations generally remained below the detection limits from October 18, 2003 to May 2, 2012. MTBE concentrations have remained stable with a concentration of 3.2 µg/L on October 18, 2003 to 1.2 µg/L on May 2, 2012.
- Monitoring well 711 BNR: Benzene concentrations have generally remained below detection limits from October 3, 2003 to May 2, 2012. Total BTEX concentrations generally remained below the detection limits from October 3, 2003 to May 2, 2012. MTBE concentrations have generally remained below the detection limits from October 3, 2003 to May 2, 2012.
- Monitoring well 720 BNR: Benzene concentrations have generally remained below the detection limits from October 18, 2003 to May 2, 2012. Total BTEX concentrations generally remained below the detection limits from October 18, 2003 to May 2, 2012. MTBE concentrations have decreased from a concentration of 21 µg/L on October 18, 2003 to an estimated concentration of 0.40 J µg/L on May 2, 2012.
- Monitoring well 721 BNR: Benzene concentrations have generally remained below the detection limits from October 3, 2003 to May 2, 2012. Total BTEX concentrations generally remained below the detection limits from October 3, 2003 to May 2, 2012. MTBE concentrations have decreased from a concentration of 2.5 µg/L on October 3, 2003 to an estimated value of 0.21 µg/L J on May 2, 2012.
- Monitoring well 730 BND: Benzene concentrations have generally remained stable with a concentration below the detection limits from October 1, 2010 to May 3, 2012. Total BTEX concentrations generally remained below the detection limits from October 1, 2010 to May 3, 2012. MTBE concentrations have remained generally stable with a concentration of 3.2 µg/L on October 1, 2010 and an concentration of 2.3 µg/L on May 3, 2012.
- Monitoring well 730 BNS: Benzene concentrations have remained below detection limits from October 1, 2010 to May 3, 2012. Total BTEX concentrations have remained below the detection limits from October 1, 2010 to May 3, 2012. MTBE concentrations have generally remained stable with concentrations of 2.86 µg/L on October 1, 2010 and 1.6 µg/L on May 3, 2012.

Groundwater concentration trend graphs for Site monitoring wells and former potable wells are included in Appendix A.

**Potable Well Sampling**

Potable well samples were collected from thirteen (13) homes on Bryants Nursery Road (BNR) (600 BNR, 601 BNR, 610 BNR, 611 BNR, 621 BNR, 640 BNR, 650 BNR, 651 BNR, 660 BNR, 661 BNR, 670 BNR, 700 BNR, and 701 BNR) between April 30, 2012 and May 3, 2012. The samples were submitted to Accutest Laboratories (New Jersey) under chain of custody for analysis of full list VOCs and oxygenates by EPA Method 524.2 REV 4.1 and TPH-GRO and TPH-DRO by EPA Method 8015C. The following wells displayed detections above the reporting limit:

| Well Identification | Sampling Date | Detected Compound | Concentration | MDE Clean-up Concentration | Units |
|---|---|---|---|---|---|
| 621 BNR | 4/30/2012 | Chloroform | 0.52 | 80 | ug/L |
| 650 BNR | 5/2/2012 | MTBE | 0.6 | 20 | ug/L |
| 700 BNR | 5/3/2012 | MTBE | 0.93 | 20 | ug/L |
| 701 BNR | 5/2/2012 | MTBE | 0.78 | 20 | ug/L |

Although these analytes were detected above the reporting limit, all detections were below their respective MDE Soil and Groundwater Cleanup Standards (revised June 2008). Benzene, toluene, ethylbenzene, xylenes, total BTEX, MTBE, TBA, TPH-GRO and TPH-DRO concentrations for the potable well sampling are presented on Figure 8. The analytical laboratory reports are presented in Appendix C.

**Recovery Well Installation Activities**

On March 5-7, 2012, one additional offsite recovery well was installed. Prior to drilling and soil sampling, subsurface utilities were located and marked by Line Locators Inc, of Leesburg, VA. The proposed location was then cleared of utilities to a depth of five feet below ground surface (bgs) by SGS North America (SGS) of Baltimore, MD utilizing an airknife. SGS was also contracted to install one recovery well (RW-27) using hollow stem auger drilling technology.

Recovery well RW-27 was constructed using a 6-inch inner diameter, 0.020 slot, schedule 40 polyvinyl chloride (PVC) screen. The annular space between the recovery well and the boring wall was filled with sand to approximately 2 feet above the screen and sealed to a depth of approximately 1 foot bgs with bentonite pellets. The remaining annular space above the well seal was filled with Portland cement grout that was tremied into the borehole. The bentonite was hydrated to provide an effective seal against surface water infiltration. The recovery well was completed with locking well caps and flush-to-grade, bolt-down metallic well covers with waterproof seals. Upon the completion of the recovery well installation, the well was developed using a submersible pump. Groundwater was purged from the recovery well until the groundwater reached an acceptable turbidity as determined by the onsite URS field geologist.

As part of the drilling operations, a URS geologist recorded descriptive logs of the encountered soils. The boring logs and the well construction diagrams are included in Appendix D. The location of recovery well RW-27 is illustrated on the Site Map (Figure 3).

Split spoon soil samples were collected continuously during drilling from five feet bgs to the depth of 32 feet bgs. Split spoon samples were collected at 2-feet intervals, and then placed into sealable plastic bags. After approximately 15 minutes in ambient (outside) atmospheric conditions, the equilibrated headspace from each soil sample was screened for volatile organic compounds (VOCs) using a photoionization detector (PID). To screen the headspace, the PID detector inlet tip was inserted into each sealed bag through a small opening. The maximum VOC headspace concentration was then recorded in the field logbook. The resulting PID readings were equivalent to parts per million by volume (ppmv). This procedure was repeated for each soil sample.

A soil sample was collected on March 5, 2012 for laboratory analysis immediately above the water table in the capillary fringe (between 19 to 21 feet bgs). The soil sample was placed in appropriate glassware, stored on ice, and shipped under chain-of-custody to Accutest Laboratories of Dayton, NJ (Accutest). The soil sample was analyzed by Accutest for VOCs including oxygenates by EPA Method 8260B, and total petroleum hydrocarbons-gasoline range organics (TPH-GRO) and total petroleum hydrocarbons-diesel range organics (TPH-DRO) by EPA Method 8015C. A tabulated summary of the soil analytical data is provided in Table 4, and laboratory analytical reports are provided in Appendix E.

VOCs were not detected in soil samples screened by the PID. Soil analytical results indicated that all analytes were below detection limits except TPH-DRO. Although TPH-DRO was detected at a concentration of 36.2 mg/kg, this concentration is below the MDE Residential Cleanup Standard of 230 mg/kg for TPH-DRO.

A total of ten drums of soil cuttings were generated during the recovery well installation and a total of four drums of groundwater were generated during the recovery well development. The drums were removed from the site and transported for proper disposal by EQ Northeast, Incorporated on March 22, 2012.

# 4.0 REMEDIATION SYSTEM OPERATION

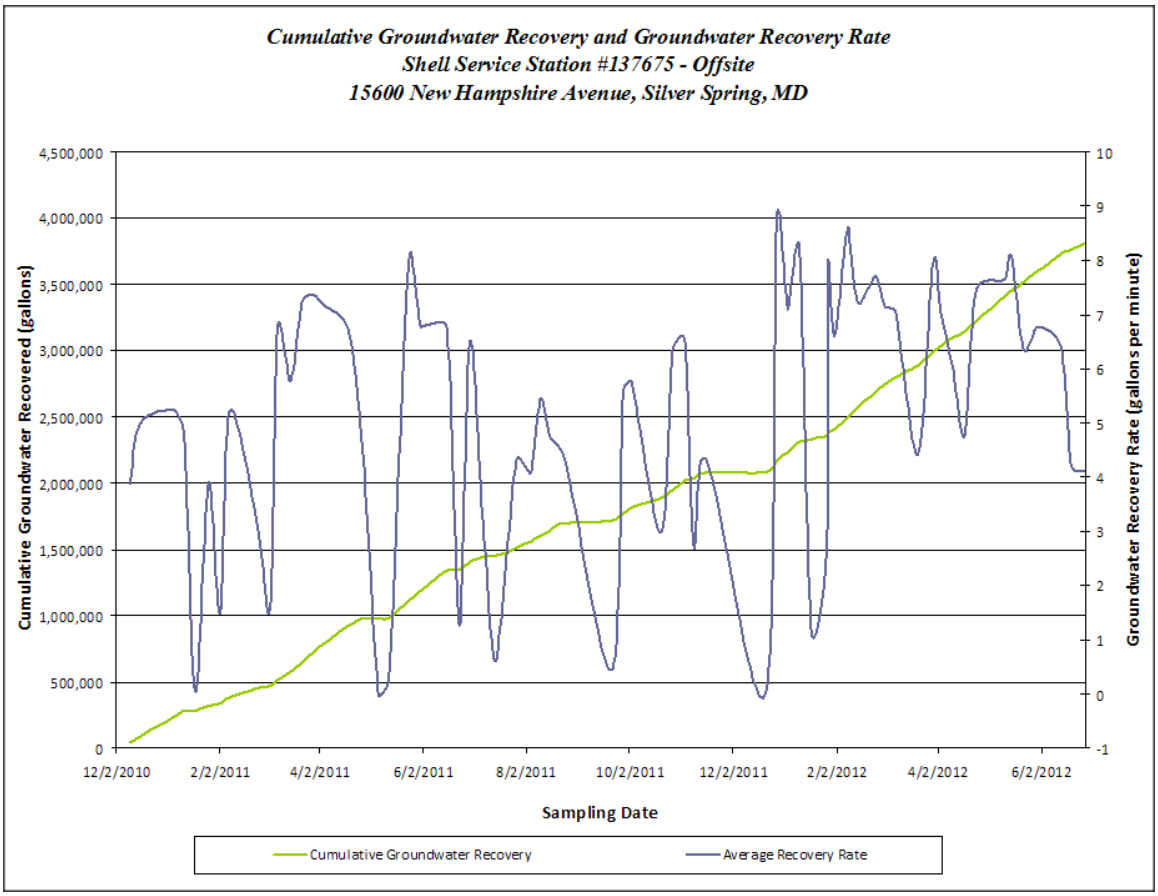
**Onsite Pump and Treat System**

The onsite groundwater pump and treat system was shut down with MDE approval on February 2, 2012. From May 30 to June 1, 2012, the components of the system were permanently disconnected and removed from the Site.

**Offsite Pump and Treat System**

The offsite groundwater pump and treat system is connected to five wells (RW-19 through RW-23). Operation of the newly installed recovery well, RW-27, is planned to begin during the Third Quarter 2012. The recovery wells are screened between 10 and 65 feet bgs. Each well contains an electric submersible pump, which is designed to transfer fluids to the equalization (EQ) tank located inside the offsite groundwater pump and treat system trailer. After accumulating in the EQ tank, recovered groundwater is then pumped through two (2) bag filters, an air stripper, two (2) additional bag filters, and three (3) 500-pound granular activated carbon vessels in series before discharging to the storm sewer. The pump and treat system was initialized in December 2010.

During the Second Quarter 2012, groundwater was recovered from recovery wells RW-19 through RW-23. A total of 823,369 gallons of groundwater was recovered and treated by the system during the Second Quarter 2012; since the system began operation, the system has recovered and treated approximately 3,811,510 gallons of groundwater. Table 5 summarizes the cumulative groundwater recovery, average recovery rate, and operating recovery wells. The below graph depicts the cumulative groundwater recovery and groundwater recovery rate since the system began operation in December 2010.

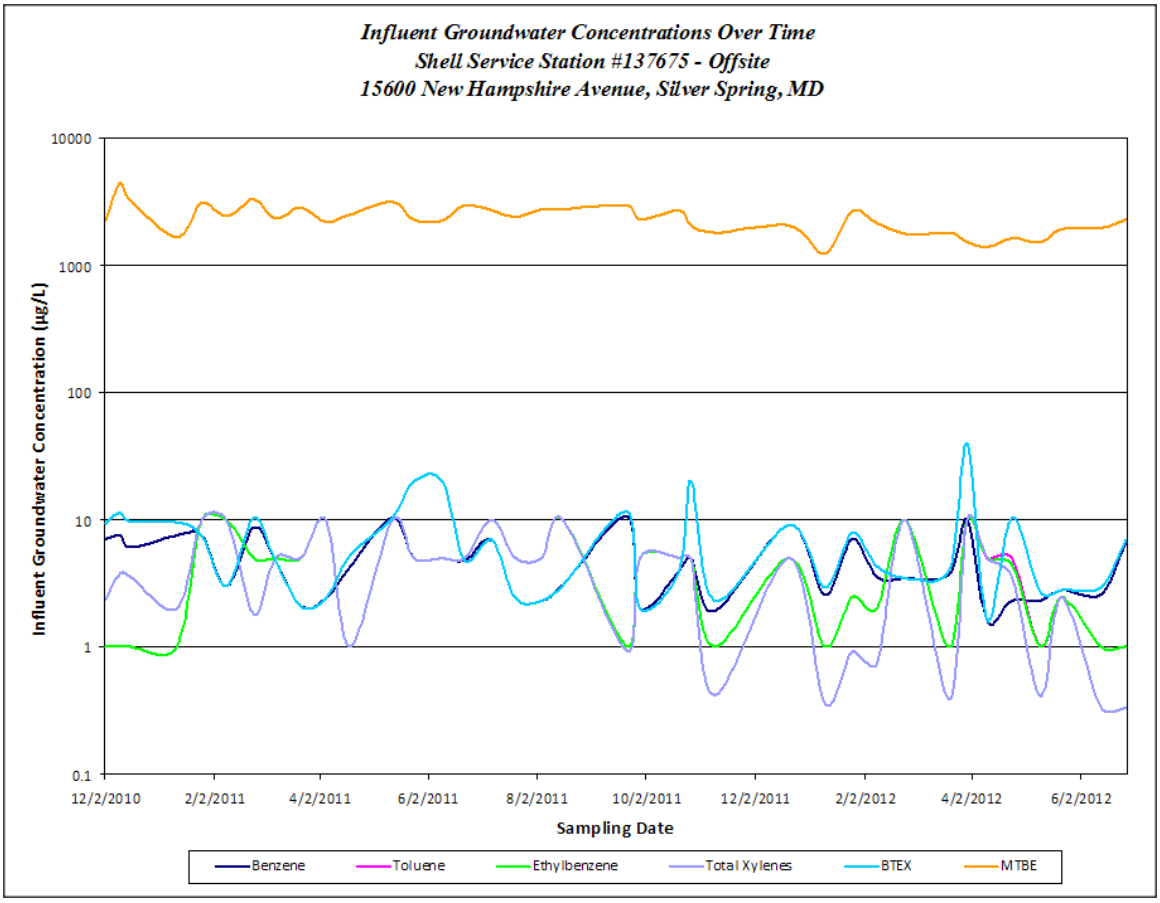


At the offsite location, system influent, mid-system 1, mid-system 2, mid-system 3, and effluent samples are collected to determine hydrocarbon recovery and treatment. Analytical results of these system samples are summarized in Table 6, and the laboratory analytical reports are included in Appendix F.

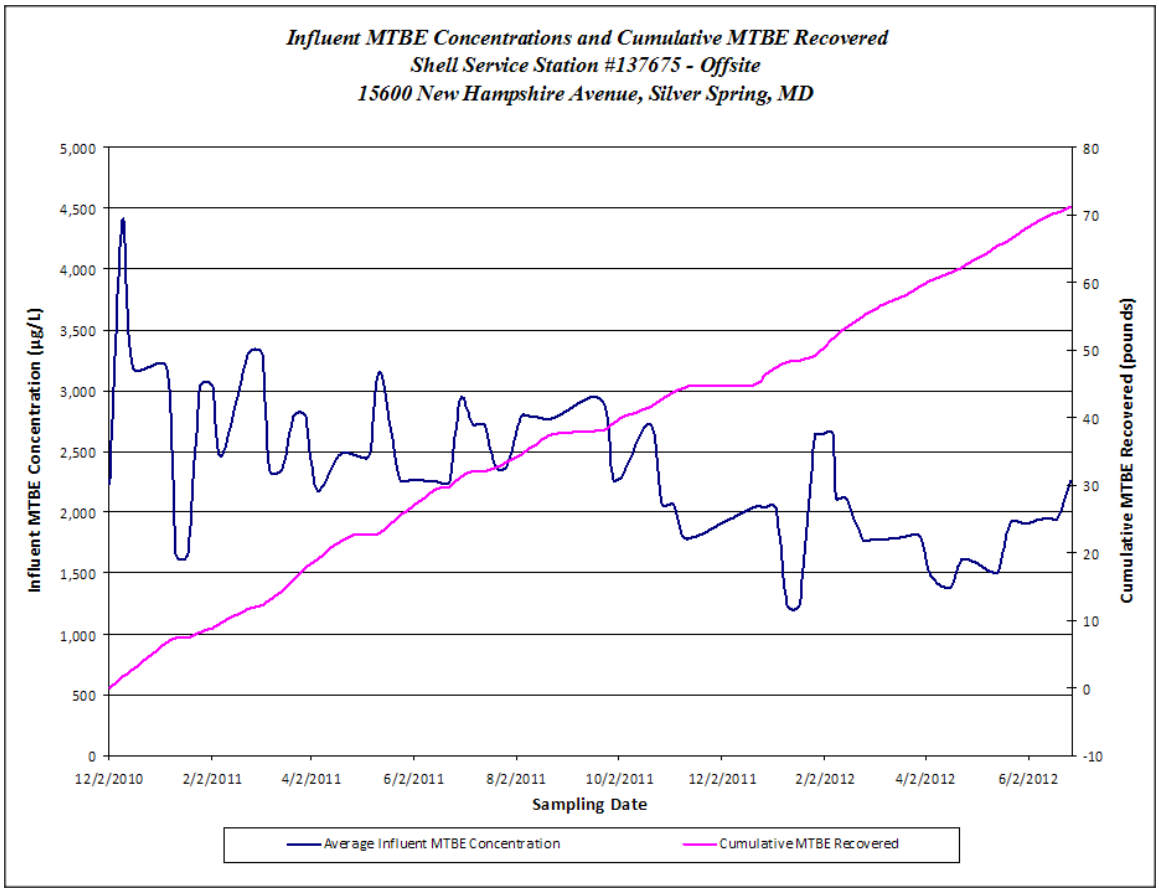
Since system startup in December 2010, influent groundwater concentrations have generally remained consistent.

- Influent benzene concentrations have decreased from a concentration of 7.08 µg/L on December 2, 2010 to 6.6 µg/L on June 27, 2012.
- Influent toluene concentrations have remained below the detection limits from December 2, 2010 through June 27, 2012.
- Influent ethylbenzene concentrations have remained below the detection limits from December 2, 2010 through June 27, 2012.
- Influent total xylene concentrations have decreased from 2.35 µg/L on December 2, 2010 to an estimated value of 0.33 µg/L on June 27, 2012.
- Influent total BTEX concentrations have decreased from a concentration of 9.43 µg/L on December 2, 2010 to 6.93 µg/L on June 27, 2012.
- Influent MTBE concentrations have remained stable with a concentration of 2,230 µg/L on December 2, 2010 and 2,260 µg/L on June 27, 2012.

The concentration trends of dissolved-phase hydrocarbons in the influent groundwater samples can be observed on the below graph.



During the Second Quarter 2012, approximately 11.71 pounds of MTBE were recovered in the dissolved phase; since the offsite system began operation, approximately 71.28 pounds of MTBE have been recovered in the dissolved phase from groundwater. Influent MTBE concentrations and cumulative MTBE recovered are presented in the below graph.



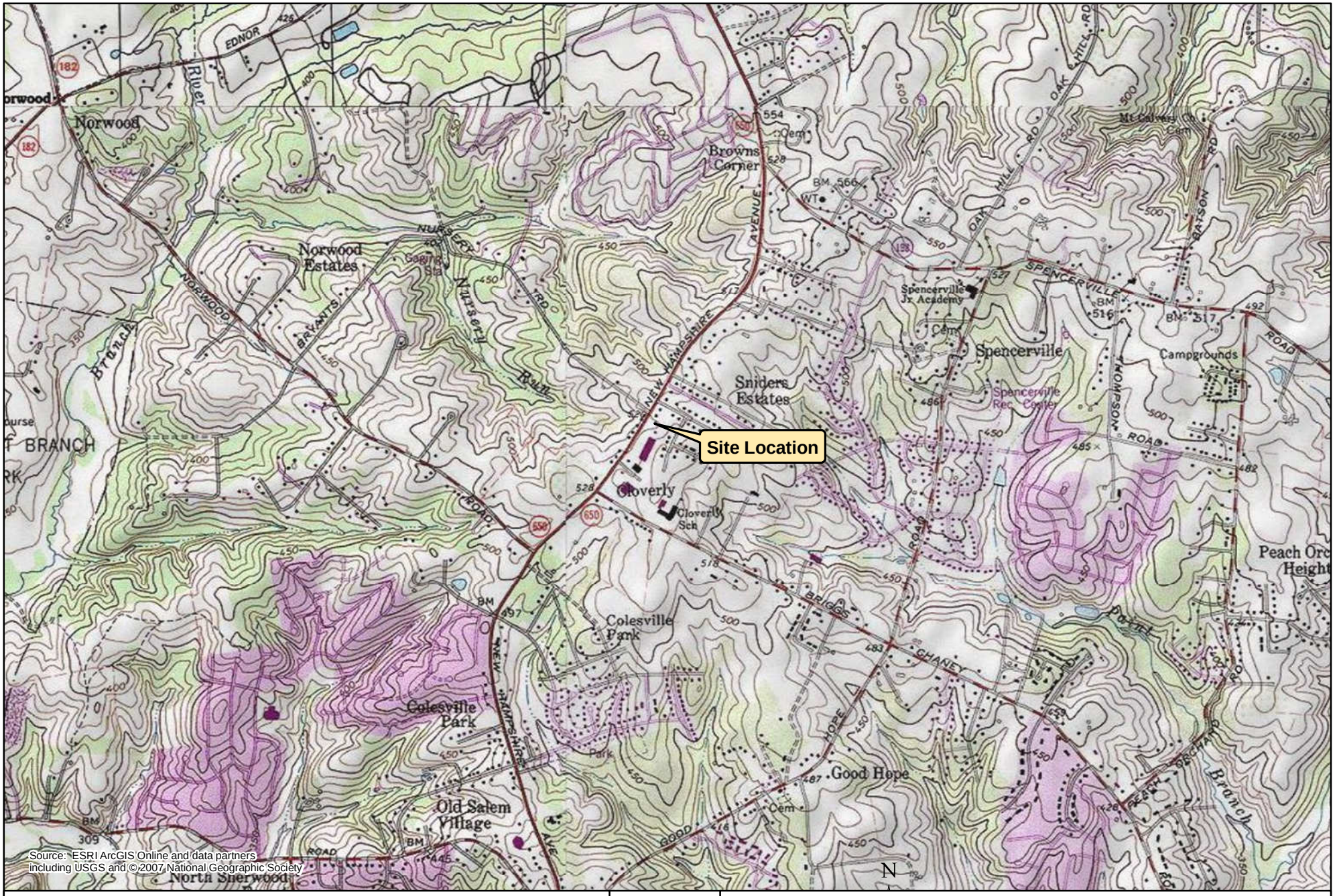

## 5.0 WORK PLANNED FOR THIRD QUARTER 2012

- Conduct quarterly groundwater gauging of all site monitoring wells.
- Conduct quarterly groundwater sampling in accordance with the Modified Groundwater Sampling Schedule approved by MDE in December 2011.
- Conduct weekly O&M and bimonthly sampling of the offsite remediation system.
- Conduct weekly gauging of select offsite monitoring wells.
- Finish connection of newly installed recovery well RW-27 to offsite remediation system.
- Install two sentinel monitoring wells in the public right of way along Bryants Nursery Road in front of the residence at 721 Bryants Nursery Road

## ATTACHMENTS


| | |
|---|---|
| Figure 1 | USGS Topographic Map |
| Figure 2 | Local Area Map |
| Figure 3 | Site Map |
| Figure 4 | Shallow Zone Groundwater Contour Map |
| Figure 5 | Deep Overburden Groundwater Contour Map |
| Figure 6 | Bedrock Groundwater Contour Map |
| Figure 7 | Dissolved Phase Concentration Map |
| Figure 8 | Potable Well Concentration Map |
| Table 1 | Well Gauge Report |
| Table 2 | Summary of Groundwater Analytical Results |
| Table 3 | Potable Well Laboratory Analytical Results |
| Table 4 | Soil Sample Analytical Results |
| Table 5 | Offsite Groundwater Extraction System Performance |
| Table 6 | Offsite Groundwater Extraction Analytical Data |
| Appendix A | Historical Dissolved-Phase Concentrations Graphs |
| Appendix B | Groundwater Elevation Trends - Weekly Gauged Wells |
| Appendix C | Groundwater and Potable Laboratory Analytical Reports |
| Appendix D | Soil Boring Log and Well Construction Diagram |
| Appendix E | Soil Laboratory Analytical Report |
| Appendix F | Offsite System Laboratory Analytical Reports |

# FIGURES




| | | | | |
|---|---|---|---|---|
| CLIENT | Motiva Enterprises, LLC | | | |
| PROJ | Shell Service Station # 137675 | | | |
| SCALE | 1:24,000 | 0 1,000 2,000 4,000 Feet | | |
| REVISION NO | 0 | DES BY | JK | 03/25/2011 |
| G:\Projects\Shell\Station_137675\MXD\137675_SiteLocale.mxd | | CHK BY | JA | 03/25/2011 |

N

TITLE

**USGS Topographic Map**

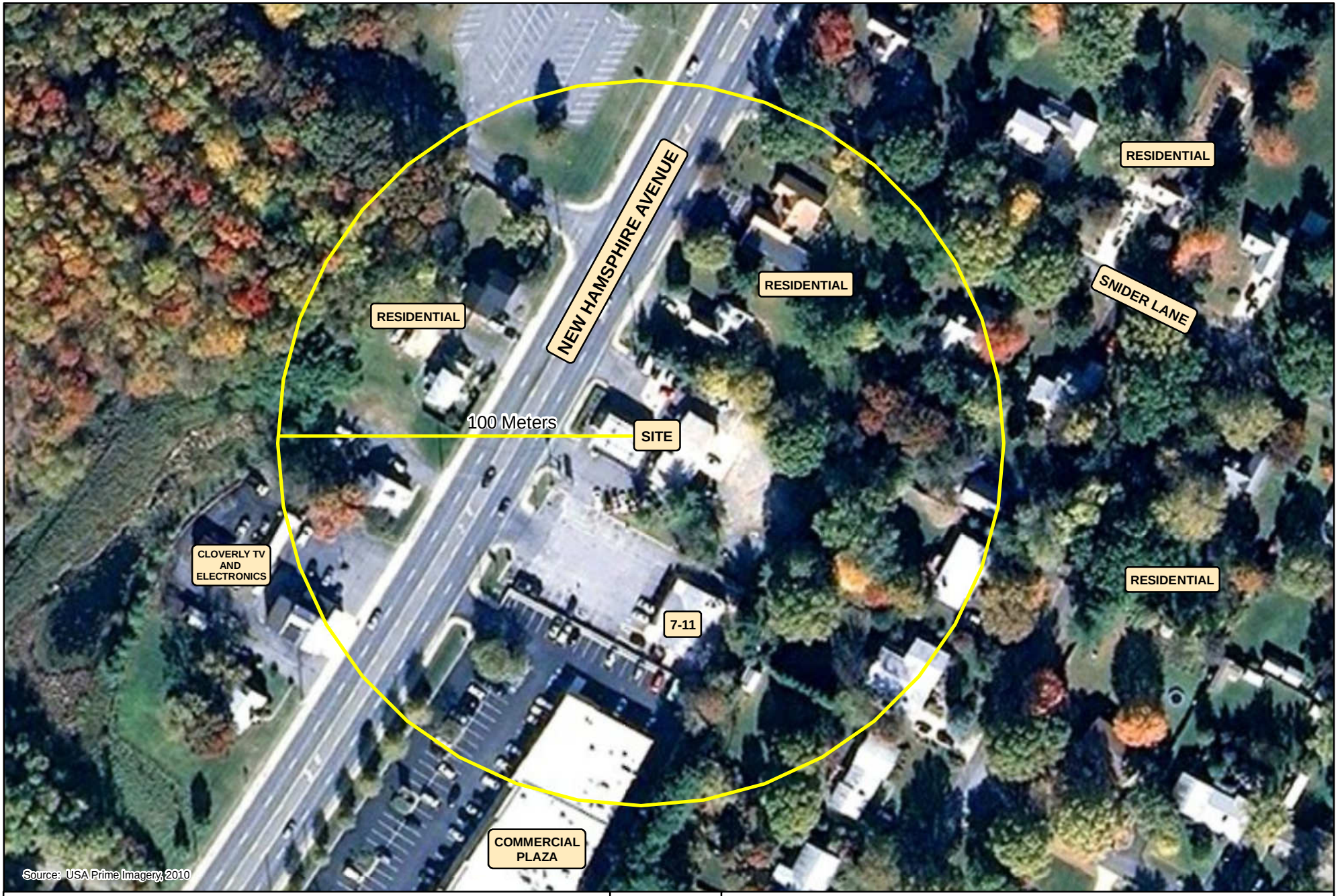
URS

12420 Milestone Center Dr
Germantown, MD 20876

Site Address:
15541 New Hampshire Avenue
Silver Spring, MD

**FIGURE**

**1**




| | | | | |
|---|---|---|---|---|
| CLIENT | Motiva Enterprises, LLC | | | |
| PROJ | Shell Service Station # 137675 | | | |
| SCALE | 1:1,400 | 0 60 120 240 Feet | | |
| REVISION NO | 0 | DES BY | JK | 03/25/2011 |
| G:\Projects\Shell\Station_137675\MXD\137675_LocalArea.mxd | | CHK BY | JA | 03/25/2011 |

N

TITLE

**Local Area Map**

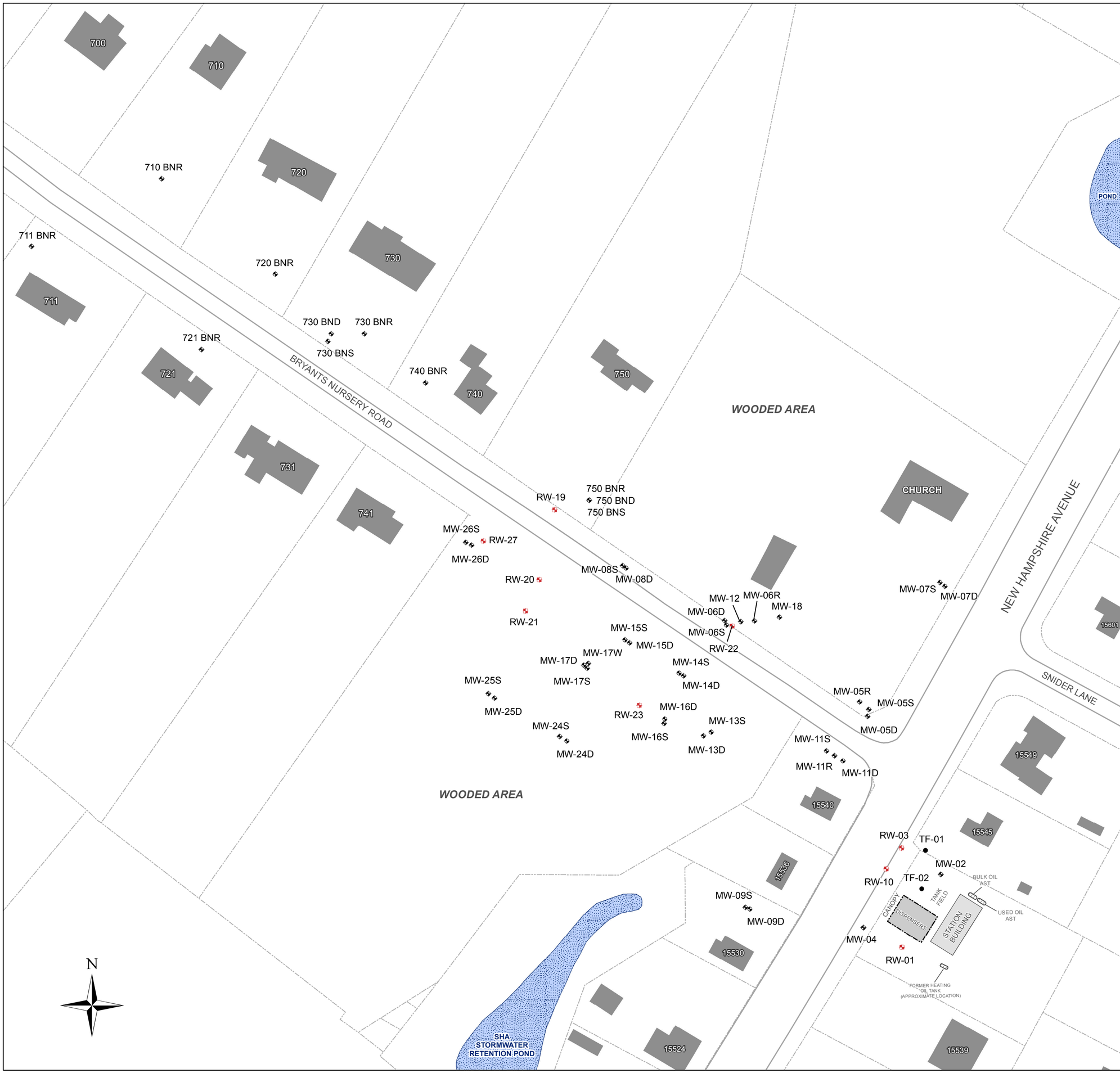
URS

12420 Milestone Center Dr
Germantown, MD 20876

Site Address:
15541 New Hampshire Avenue
Silver Spring, MD

**FIGURE**

**2**




URS
12420 Milestone Center Drive
Germantown, MD 20876

G:\Projects\Shell\Station_137675\MXD\137675_Base.mxd
Date: 03/11/2011
Created: JK
Checked: JA
Senior:

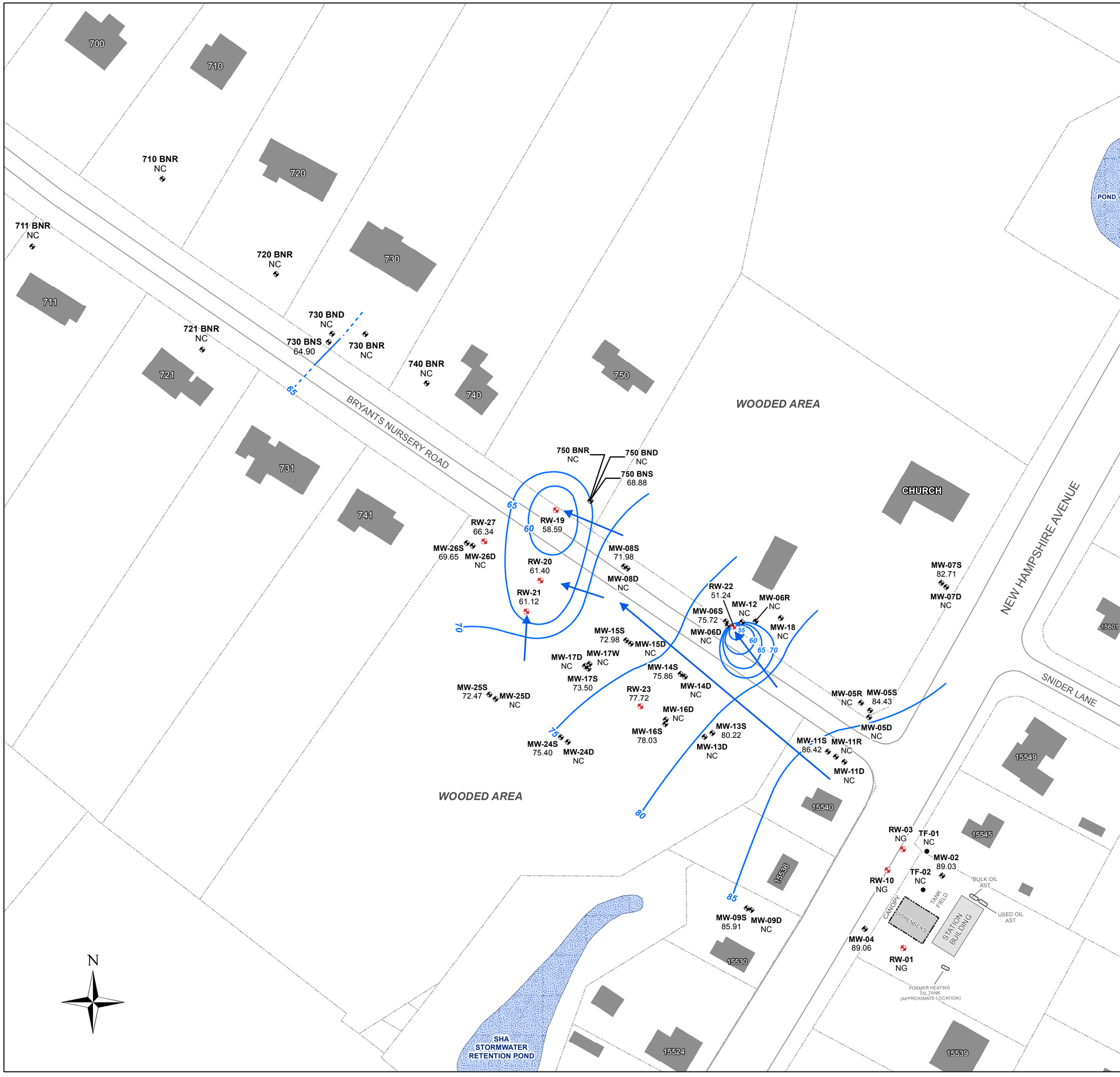
**Legend**

- Monitoring Well
- Recovery Well
- Tank Field Well
- Station Building
- Canopy
- Above Ground Storage Tank
- Off-site Building/Structure
- Water Body
- Property Boundary
- Curb

0 40 80 160 Feet

1 inch = 80 feet

Figure 3
Site Map
Shell Station #137675
15541 New Hampshire Avenue
Silver Spring, MD




URS

12420 Milestone Center Drive
Germantown, MD 20876

G:\Projects\Shell\Station_137675\MXD\137675_GW_2Q12.mxd
Date: 06/13/2012
Created: JK
Checked: JA
Senior:

## Legend

- Monitoring Well
- Recovery Well
- Tank Field Well
- Station Building
- Canopy
- Above Ground Storage Tank
- Off-site Building/Structure
- Water Body
- Property Boundary
- Curb

**MW-02** Well ID
89.03 Groundwater Elevation (Feet)

Groundwater Contour (Feet) (dashed where inferred)

Groundwater Flow Direction

**Note: Represents the shallow zone groundwater potentiometric map**

*NC - Not Calculated*

*NG - Not Gauged*

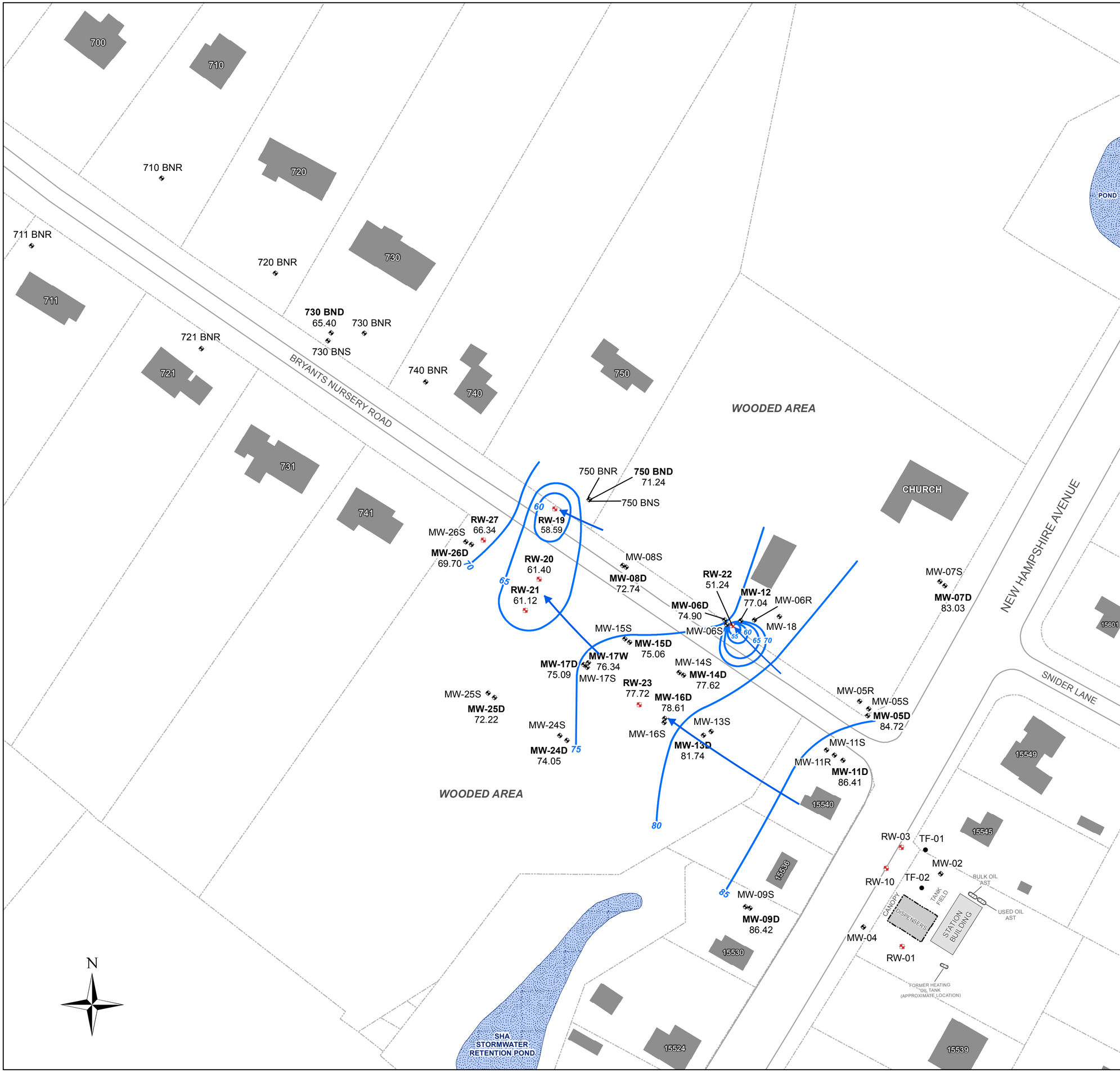
*Contour Interval - 5 feet*

*Data from: April 30, 2012*

0 40 80 160 Feet

1 inch = 80 feet

Figure 4
Shallow Zone Groundwater Contour Map
Shell Station #137675
15541 New Hampshire Avenue
Silver Spring, MD




URS

12420 Milestone Center Drive
Germantown, MD 20876

G:\Projects\Shell\Station_137675\MXD\137675_DeepOverburdenGW_2Q12.mxd
Date: 06/13/2012
Created: JK
Checked: JA
Senior:

**Legend**

- Monitoring Well
- Recovery Well
- Tank Field Well
- Station Building
- Canopy
- Above Ground Storage Tank
- Off-site Building/Structure
- Water Body
- Property Boundary
- Curb

**MW-11D** Well ID
86.41 Groundwater Elevation (Feet)

Groundwater Contour (Feet) (dashed where inferred)

Groundwater Flow Direction (under pumping conditions)

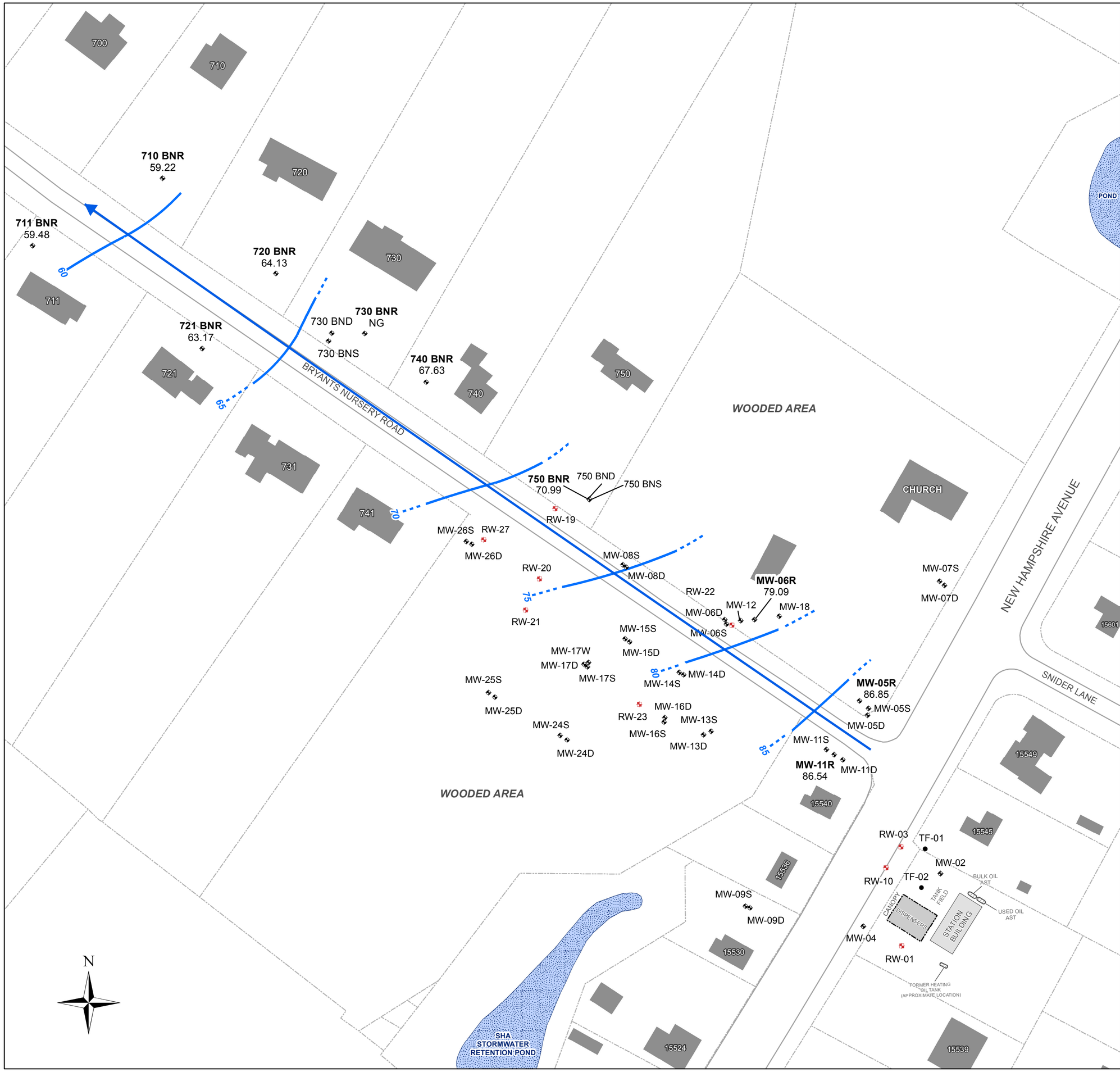
*Contour Interval - 5 feet*

*Data from: April 30, 2012*

0 40 80 160 Feet

1 inch = 80 feet

Figure 5
Deep Overburden Groundwater Contour Map
Shell Station #137675
15541 New Hampshire Avenue
Silver Spring, MD




URS

12420 Milestone Center Drive
Germantown, MD 20876

G:\Projects\Shell\Station_137675\MXD\137675_BedrockGW_2Q12.mxd
Date: 06/13/2012
Created: JK
Checked: JA
Senior:

**Legend**

- Monitoring Well
- Recovery Well
- Tank Field Well
- Station Building
- Canopy
- Above Ground Storage Tank
- Off-site Building/Structure
- Water Body
- Property Boundary
- Curb

**MW-11R** Well ID
86.54 Groundwater Elevation (Feet)

Groundwater Contour (Feet) (dashed where inferred)

Groundwater Flow Direction

*NG - Not Gauged*

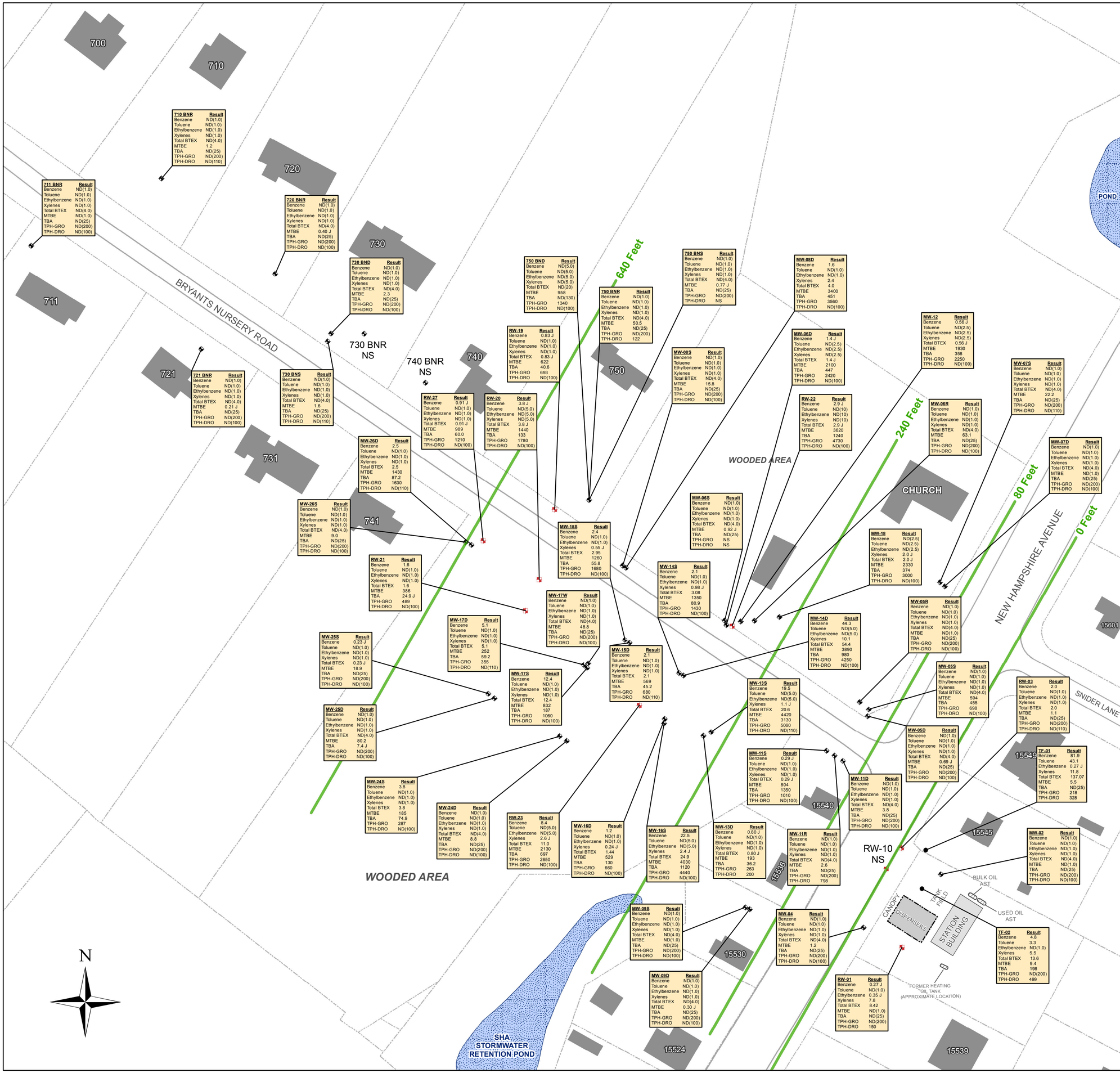
*Contour Interval - 5 feet*

*Data from: April 30, 2012*

0 40 80 160 Feet

1 inch = 80 feet

Figure 6
Bedrock Groundwater Contour Map
Shell Station #137675
15541 New Hampshire Avenue
Silver Spring, MD




| 710 BNR | Result |
|---|---|
| Benzene | ND(1.0) |
| Toluene | ND(1.0) |
| Ethylbenzene | ND(1.0) |
| Xylenes | ND(1.0) |
| Total BTEX | ND(4.0) |
| MTBE | 1.2 |
| TBA | ND(25) |
| TPH-GRO | ND(200) |
| TPH-DRO | ND(110) |

| 711 BNR | Result |
|---|---|
| Benzene | ND(1.0) |
| Toluene | ND(1.0) |
| Ethylbenzene | ND(1.0) |
| Xylenes | ND(1.0) |
| Total BTEX | ND(4.0) |
| MTBE | ND(1.0) |
| TBA | ND(25) |
| TPH-GRO | ND(200) |
| TPH-DRO | ND(100) |

| 720 BNR | Result |
|---|---|
| Benzene | ND(1.0) |
| Toluene | ND(1.0) |
| Ethylbenzene | ND(1.0) |
| Xylenes | ND(1.0) |
| Total BTEX | ND(4.0) |
| MTBE | 0.40 J |
| TBA | ND(25) |
| TPH-GRO | ND(200) |
| TPH-DRO | ND(100) |

| 730 BND | Result |
|---|---|
| Benzene | ND(1.0) |
| Toluene | ND(1.0) |
| Ethylbenzene | ND(1.0) |
| Xylenes | ND(1.0) |
| Total BTEX | ND(4.0) |
| MTBE | 2.3 |
| TBA | ND(25) |
| TPH-GRO | ND(200) |
| TPH-DRO | ND(100) |

| 721 BNR | Result |
|---|---|
| Benzene | ND(1.0) |
| Toluene | ND(1.0) |
| Ethylbenzene | ND(1.0) |
| Xylenes | ND(1.0) |
| Total BTEX | ND(4.0) |
| MTBE | 0.21 J |
| TBA | ND(25) |
| TPH-GRO | ND(200) |
| TPH-DRO | ND(100) |

| 730 BNS | Result |
|---|---|
| Benzene | ND(1.0) |
| Toluene | ND(1.0) |
| Ethylbenzene | ND(1.0) |
| Xylenes | ND(1.0) |
| Total BTEX | ND(4.0) |
| MTBE | 1.6 |
| TBA | ND(25) |
| TPH-GRO | ND(200) |
| TPH-DRO | ND(110) |

| RW-27 | Result |
|---|---|
| Benzene | 0.91 J |
| Toluene | ND(1.0) |
| Ethylbenzene | ND(1.0) |
| Xylenes | ND(1.0) |
| Total BTEX | 0.91 J |
| MTBE | 989 |
| TBA | 60.0 |
| TPH-GRO | 1210 |
| TPH-DRO | ND(100) |

| RW-20 | Result |
|---|---|
| Benzene | 3.8 J |
| Toluene | ND(5.0) |
| Ethylbenzene | ND(5.0) |
| Xylenes | ND(5.0) |
| Total BTEX | 3.8 J |
| MTBE | 1440 |
| TBA | 133 |
| TPH-GRO | 1780 |
| TPH-DRO | ND(100) |

| MW-26D | Result |
|---|---|
| Benzene | 2.5 |
| Toluene | ND(1.0) |
| Ethylbenzene | ND(1.0) |
| Xylenes | ND(1.0) |
| Total BTEX | 2.5 |
| MTBE | 1430 |
| TBA | 87.2 |
| TPH-GRO | 1630 |
| TPH-DRO | ND(110) |

| MW-26S | Result |
|---|---|
| Benzene | ND(1.0) |
| Toluene | ND(1.0) |
| Ethylbenzene | ND(1.0) |
| Xylenes | ND(1.0) |
| Total BTEX | ND(4.0) |
| MTBE | 9.0 |
| TBA | ND(25) |
| TPH-GRO | ND(200) |
| TPH-DRO | ND(100) |

| RW-21 | Result |
|---|---|
| Benzene | 1.6 |
| Toluene | ND(1.0) |
| Ethylbenzene | ND(1.0) |
| Xylenes | ND(1.0) |
| Total BTEX | 1.6 |
| MTBE | 386 |
| TBA | 24.9 J |
| TPH-GRO | 489 |
| TPH-DRO | ND(100) |

| MW-17D | Result |
|---|---|
| Benzene | 5.1 |
| Toluene | ND(1.0) |
| Ethylbenzene | ND(1.0) |
| Xylenes | ND(1.0) |
| Total BTEX | 5.1 |
| MTBE | 252 |
| TBA | 59.2 |
| TPH-GRO | 355 |
| TPH-DRO | ND(110) |

| MW-25S | Result |
|---|---|
| Benzene | 0.23 J |
| Toluene | ND(1.0) |
| Ethylbenzene | ND(1.0) |
| Xylenes | ND(1.0) |
| Total BTEX | 0.23 J |
| MTBE | 18.9 |
| TBA | ND(25) |
| TPH-GRO | ND(200) |
| TPH-DRO | ND(100) |

| MW-25D | Result |
|---|---|
| Benzene | ND(1.0) |
| Toluene | ND(1.0) |
| Ethylbenzene | ND(1.0) |
| Xylenes | ND(1.0) |
| Total BTEX | ND(4.0) |
| MTBE | 80.2 |
| TBA | 7.4 J |
| TPH-GRO | ND(200) |
| TPH-DRO | ND(100) |

| MW-24S | Result |
|---|---|
| Benzene | 3.8 |
| Toluene | ND(1.0) |
| Ethylbenzene | ND(1.0) |
| Xylenes | ND(1.0) |
| Total BTEX | 3.8 |
| MTBE | 185 |
| TBA | 74.9 |
| TPH-GRO | 287 |
| TPH-DRO | ND(100) |

| MW-24D | Result |
|---|---|
| Benzene | ND(1.0) |
| Toluene | ND(1.0) |
| Ethylbenzene | ND(1.0) |
| Xylenes | ND(1.0) |
| Total BTEX | ND(4.0) |
| MTBE | 8.8 |
| TBA | ND(25) |
| TPH-GRO | ND(200) |
| TPH-DRO | ND(100) |

| RW-23 | Result |
|---|---|
| Benzene | 8.4 |
| Toluene | ND(5.0) |
| Ethylbenzene | ND(5.0) |
| Xylenes | 2.6 J |
| Total BTEX | 11.0 |
| MTBE | 2130 |
| TBA | 697 |
| TPH-GRO | 2650 |
| TPH-DRO | ND(100) |

| 750 BND | Result |
|---|---|
| Benzene | ND(5.0) |
| Toluene | ND(5.0) |
| Ethylbenzene | ND(5.0) |
| Xylenes | ND(5.0) |
| Total BTEX | ND(20) |
| MTBE | 958 |
| TBA | ND(130) |
| TPH-GRO | 1340 |
| TPH-DRO | ND(100) |

| RW-19 | Result |
|---|---|
| Benzene | 0.83 J |
| Toluene | ND(1.0) |
| Ethylbenzene | ND(1.0) |
| Xylenes | ND(1.0) |
| Total BTEX | 0.83 J |
| MTBE | 622 |
| TBA | 40.6 |
| TPH-GRO | 693 |
| TPH-DRO | ND(100) |

| 750 BNR | Result |
|---|---|
| Benzene | ND(1.0) |
| Toluene | ND(1.0) |
| Ethylbenzene | ND(1.0) |
| Xylenes | ND(1.0) |
| Total BTEX | ND(4.0) |
| MTBE | 50.5 |
| TBA | ND(25) |
| TPH-GRO | ND(200) |
| TPH-DRO | 122 |

| 750 BNS | Result |
|---|---|
| Benzene | ND(1.0) |
| Toluene | ND(1.0) |
| Ethylbenzene | ND(1.0) |
| Xylenes | ND(1.0) |
| Total BTEX | ND(4.0) |
| MTBE | 0.77 J |
| TBA | ND(25) |
| TPH-GRO | ND(200) |
| TPH-DRO | NS |

| MW-08S | Result |
|---|---|
| Benzene | ND(1.0) |
| Toluene | ND(1.0) |
| Ethylbenzene | ND(1.0) |
| Xylenes | ND(1.0) |
| Total BTEX | ND(4.0) |
| MTBE | 15.8 |
| TBA | ND(25) |
| TPH-GRO | ND(200) |
| TPH-DRO | ND(100) |

| MW-15S | Result |
|---|---|
| Benzene | 2.4 |
| Toluene | ND(1.0) |
| Ethylbenzene | ND(1.0) |
| Xylenes | 0.55 J |
| Total BTEX | 2.95 |
| MTBE | 1260 |
| TBA | 55.8 |
| TPH-GRO | 1680 |
| TPH-DRO | ND(100) |

| MW-17W | Result |
|---|---|
| Benzene | ND(1.0) |
| Toluene | ND(1.0) |
| Ethylbenzene | ND(1.0) |
| Xylenes | ND(1.0) |
| Total BTEX | ND(4.0) |
| MTBE | 48.8 |
| TBA | ND(25) |
| TPH-GRO | ND(200) |
| TPH-DRO | ND(100) |

| MW-17S | Result |
|---|---|
| Benzene | 12.4 |
| Toluene | ND(1.0) |
| Ethylbenzene | ND(1.0) |
| Xylenes | ND(1.0) |
| Total BTEX | 12.4 |
| MTBE | 832 |
| TBA | 187 |
| TPH-GRO | 1060 |
| TPH-DRO | ND(100) |

| MW-15D | Result |
|---|---|
| Benzene | 2.1 |
| Toluene | ND(1.0) |
| Ethylbenzene | ND(1.0) |
| Xylenes | ND(1.0) |
| Total BTEX | 2.1 |
| MTBE | 569 |
| TBA | 45.2 |
| TPH-GRO | 680 |
| TPH-DRO | ND(110) |

| MW-16D | Result |
|---|---|
| Benzene | 1.2 |
| Toluene | ND(1.0) |
| Ethylbenzene | ND(1.0) |
| Xylenes | 0.24 J |
| Total BTEX | 1.44 |
| MTBE | 529 |
| TBA | 130 |
| TPH-GRO | 660 |
| TPH-DRO | ND(100) |

| MW-16S | Result |
|---|---|
| Benzene | 22.5 |
| Toluene | ND(5.0) |
| Ethylbenzene | ND(5.0) |
| Xylenes | 2.4 J |
| Total BTEX | 24.9 |
| MTBE | 4030 |
| TBA | 1120 |
| TPH-GRO | 4440 |
| TPH-DRO | ND(100) |

| MW-09S | Result |
|---|---|
| Benzene | ND(1.0) |
| Toluene | ND(1.0) |
| Ethylbenzene | ND(1.0) |
| Xylenes | ND(1.0) |
| Total BTEX | ND(4.0) |
| MTBE | ND(1.0) |
| TBA | ND(25) |
| TPH-GRO | ND(200) |
| TPH-DRO | ND(100) |

| MW-09D | Result |
|---|---|
| Benzene | ND(1.0) |
| Toluene | ND(1.0) |
| Ethylbenzene | ND(1.0) |
| Xylenes | ND(1.0) |
| Total BTEX | ND(4.0) |
| MTBE | 0.30 J |
| TBA | ND(25) |
| TPH-GRO | ND(200) |
| TPH-DRO | ND(100) |

| MW-06S | Result |
|---|---|
| Benzene | ND(1.0) |
| Toluene | ND(1.0) |
| Ethylbenzene | ND(1.0) |
| Xylenes | ND(1.0) |
| Total BTEX | ND(4.0) |
| MTBE | 0.92 J |
| TBA | ND(25) |
| TPH-GRO | NS |
| TPH-DRO | NS |

| MW-14S | Result |
|---|---|
| Benzene | 2.1 |
| Toluene | ND(1.0) |
| Ethylbenzene | ND(1.0) |
| Xylenes | 0.98 J |
| Total BTEX | 3.08 |
| MTBE | 1350 |
| TBA | 80.9 |
| TPH-GRO | 1430 |
| TPH-DRO | ND(100) |

| MW-13S | Result |
|---|---|
| Benzene | 19.5 |
| Toluene | ND(5.0) |
| Ethylbenzene | ND(5.0) |
| Xylenes | 1.1 J |
| Total BTEX | 20.6 |
| MTBE | 4420 |
| TBA | 3130 |
| TPH-GRO | 5060 |
| TPH-DRO | ND(110) |

| MW-11S | Result |
|---|---|
| Benzene | 0.29 J |
| Toluene | ND(1.0) |
| Ethylbenzene | ND(1.0) |
| Xylenes | ND(1.0) |
| Total BTEX | 0.29 J |
| MTBE | 804 |
| TBA | 1350 |
| TPH-GRO | 1010 |
| TPH-DRO | ND(100) |

| MW-13D | Result |
|---|---|
| Benzene | 0.80 J |
| Toluene | ND(1.0) |
| Ethylbenzene | ND(1.0) |
| Xylenes | ND(1.0) |
| Total BTEX | 0.80 J |
| MTBE | 193 |
| TBA | 36.2 |
| TPH-GRO | 263 |
| TPH-DRO | 200 |

| MW-11R | Result |
|---|---|
| Benzene | ND(1.0) |
| Toluene | ND(1.0) |
| Ethylbenzene | ND(1.0) |
| Xylenes | ND(1.0) |
| Total BTEX | ND(4.0) |
| MTBE | 2.6 |
| TBA | ND(25) |
| TPH-GRO | ND(200) |
| TPH-DRO | 798 |

| MW-04 | Result |
|---|---|
| Benzene | ND(1.0) |
| Toluene | ND(1.0) |
| Ethylbenzene | ND(1.0) |
| Xylenes | ND(1.0) |
| Total BTEX | ND(4.0) |
| MTBE | 1.2 |
| TBA | ND(25) |
| TPH-GRO | ND(200) |
| TPH-DRO | ND(100) |

| RW-01 | Result |
|---|---|
| Benzene | 0.27 J |
| Toluene | ND(1.0) |
| Ethylbenzene | 0.35 J |
| Xylenes | 7.8 |
| Total BTEX | 8.42 |
| MTBE | ND(1.0) |
| TBA | ND(25) |
| TPH-GRO | ND(200) |
| TPH-DRO | 150 |

| MW-08D | Result |
|---|---|
| Benzene | 1.6 |
| Toluene | ND(1.0) |
| Ethylbenzene | ND(1.0) |
| Xylenes | 2.4 |
| Total BTEX | 4.0 |
| MTBE | 3400 |
| TBA | 451 |
| TPH-GRO | 3560 |
| TPH-DRO | ND(100) |

| MW-06D | Result |
|---|---|
| Benzene | 1.4 J |
| Toluene | ND(2.5) |
| Ethylbenzene | ND(2.5) |
| Xylenes | ND(2.5) |
| Total BTEX | 1.4 J |
| MTBE | 2100 |
| TBA | 447 |
| TPH-GRO | 2420 |
| TPH-DRO | ND(100) |

| RW-22 | Result |
|---|---|
| Benzene | 2.9 J |
| Toluene | ND(10) |
| Ethylbenzene | ND(10) |
| Xylenes | ND(10) |
| Total BTEX | 2.9 J |
| MTBE | 3620 |
| TBA | 1240 |
| TPH-GRO | 4730 |
| TPH-DRO | ND(100) |

| MW-18 | Result |
|---|---|
| Benzene | ND(2.5) |
| Toluene | ND(2.5) |
| Ethylbenzene | ND(2.5) |
| Xylenes | 2.0 J |
| Total BTEX | 2.0 J |
| MTBE | 2330 |
| TBA | 374 |
| TPH-GRO | 3000 |
| TPH-DRO | ND(100) |

| MW-14D | Result |
|---|---|
| Benzene | 44.3 |
| Toluene | ND(5.0) |
| Ethylbenzene | ND(5.0) |
| Xylenes | 10.1 |
| Total BTEX | 54.4 |
| MTBE | 3890 |
| TBA | 980 |
| TPH-GRO | 4250 |
| TPH-DRO | ND(100) |

| MW-11D | Result |
|---|---|
| Benzene | ND(1.0) |
| Toluene | ND(1.0) |
| Ethylbenzene | ND(1.0) |
| Xylenes | ND(1.0) |
| Total BTEX | ND(4.0) |
| MTBE | 3.8 |
| TBA | ND(25) |
| TPH-GRO | ND(200) |
| TPH-DRO | ND(100) |

| MW-12 | Result |
|---|---|
| Benzene | 0.56 J |
| Toluene | ND(2.5) |
| Ethylbenzene | ND(2.5) |
| Xylenes | ND(2.5) |
| Total BTEX | 0.56 J |
| MTBE | 1930 |
| TBA | 358 |
| TPH-GRO | 2250 |
| TPH-DRO | ND(100) |

| MW-06R | Result |
|---|---|
| Benzene | ND(1.0) |
| Toluene | ND(1.0) |
| Ethylbenzene | ND(1.0) |
| Xylenes | ND(1.0) |
| Total BTEX | ND(4.0) |
| MTBE | 63.1 |
| TBA | ND(25) |
| TPH-GRO | ND(200) |
| TPH-DRO | ND(100) |

| MW-05R | Result |
|---|---|
| Benzene | ND(1.0) |
| Toluene | ND(1.0) |
| Ethylbenzene | ND(1.0) |
| Xylenes | ND(1.0) |
| Total BTEX | ND(4.0) |
| MTBE | ND(1.0) |
| TBA | ND(25) |
| TPH-GRO | ND(200) |
| TPH-DRO | ND(100) |

| MW-05S | Result |
|---|---|
| Benzene | ND(1.0) |
| Toluene | ND(1.0) |
| Ethylbenzene | ND(1.0) |
| Xylenes | ND(1.0) |
| Total BTEX | ND(4.0) |
| MTBE | 594 |
| TBA | 455 |
| TPH-GRO | 698 |
| TPH-DRO | ND(100) |

| MW-05D | Result |
|---|---|
| Benzene | ND(1.0) |
| Toluene | ND(1.0) |
| Ethylbenzene | ND(1.0) |
| Xylenes | ND(1.0) |
| Total BTEX | ND(4.0) |
| MTBE | 0.69 J |
| TBA | ND(25) |
| TPH-GRO | ND(200) |
| TPH-DRO | ND(100) |

| MW-07S | Result |
|---|---|
| Benzene | ND(1.0) |
| Toluene | ND(1.0) |
| Ethylbenzene | ND(1.0) |
| Xylenes | ND(1.0) |
| Total BTEX | ND(4.0) |
| MTBE | 22.2 |
| TBA | ND(25) |
| TPH-GRO | ND(200) |
| TPH-DRO | ND(110) |

| MW-07D | Result |
|---|---|
| Benzene | ND(1.0) |
| Toluene | ND(1.0) |
| Ethylbenzene | ND(1.0) |
| Xylenes | ND(1.0) |
| Total BTEX | ND(4.0) |
| MTBE | ND(1.0) |
| TBA | ND(25) |
| TPH-GRO | ND(200) |
| TPH-DRO | ND(100) |

| RW-03 | Result |
|---|---|
| Benzene | 2.0 |
| Toluene | ND(1.0) |
| Ethylbenzene | ND(1.0) |
| Xylenes | ND(1.0) |
| Total BTEX | 2.0 |
| MTBE | 1.1 |
| TBA | ND(25) |
| TPH-GRO | ND(200) |
| TPH-DRO | ND(110) |

| TF-01 | Result |
|---|---|
| Benzene | 81.9 |
| Toluene | 43.1 |
| Ethylbenzene | 0.27 J |
| Xylenes | 11.8 |
| Total BTEX | 137.07 |
| MTBE | 5.5 |
| TBA | ND(25) |
| TPH-GRO | 218 |
| TPH-DRO | 328 |

| MW-02 | Result |
|---|---|
| Benzene | ND(1.0) |
| Toluene | ND(1.0) |
| Ethylbenzene | ND(1.0) |
| Xylenes | ND(1.0) |
| Total BTEX | ND(4.0) |
| MTBE | ND(1.0) |
| TBA | ND(25) |
| TPH-GRO | ND(200) |
| TPH-DRO | ND(100) |

| TF-02 | Result |
|---|---|
| Benzene | 4.8 |
| Toluene | 3.3 |
| Ethylbenzene | ND(1.0) |
| Xylenes | 5.5 |
| Total BTEX | 13.6 |
| MTBE | 9.4 |
| TBA | 198 |
| TPH-GRO | ND(200) |
| TPH-DRO | 499 |

URS
12420 Milestone Center Drive
Germantown, MD 20876

G:\Projects\Shell\Station_137675\
MXD\137675_DPC_2Q12.mxd
Date: 06/18/2012
Created: JK
Checked: JA
Senior:

## Legend

- Monitoring Well
- Recovery Well
- Tank Field Well
- Station Building
- Canopy
- Above Ground Storage Tank
- Off-site Building/Structure
- Water Body
- Property Boundary
- Curb
- Distance from Site (in feet)

*ND(1.0) - Not Detected (Detection Limit)*

*NS - Not Sampled*

*J - Estimated Value*

*Concentrations in µg/L*

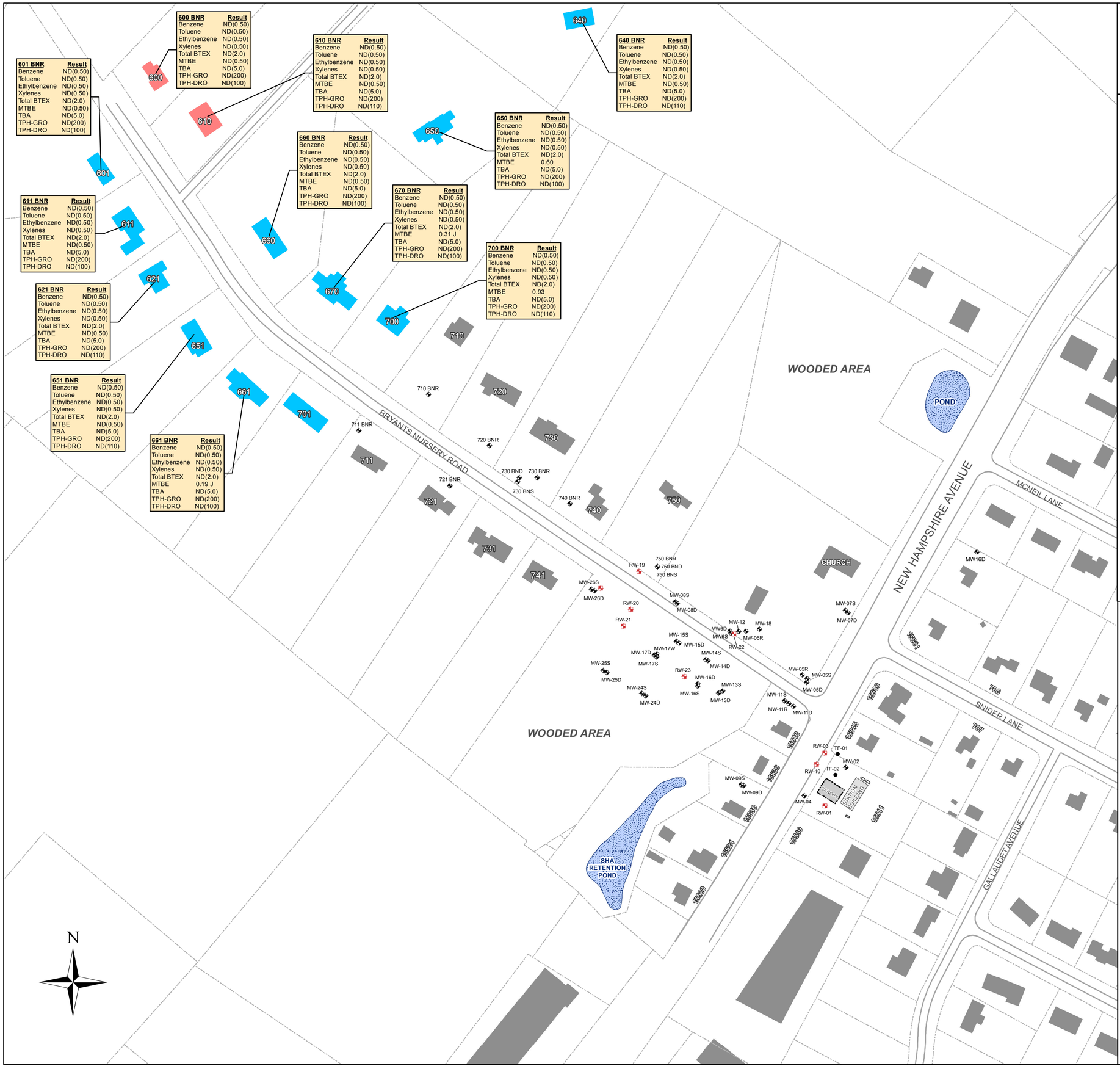
*Data from: May 1-4, 2012*

Total BTEX- Total Benzene, Toluene, Ethylbenzene, Xylenes
MTBE- Methyl tert-Butyl Ether
TBA - Tertiary butyl alcohol
TPH-GRO - Total petroleum hydrocarbons-gasoline range organics
TPH-DRO - Total petroleum hydrocarbons-diesel range organics

0 40 80 160 Feet

1 inch = 80 feet

Figure 7
Dissolved Phase Concentration Map
Shell Station #137675
15541 New Hampshire Avenue
Silver Spring, MD




URS

12420 Milestone Center Drive
Germantown, MD 20876

G:\Projects\Shell\Station_137675\MXD\137675_PotableWell_DPC_2Q12.mxd
Date: 06/18/2012
Created: JK
Checked: JA
Senior:

**Legend**

- Monitoring Well
- Recovery Well
- Tank Field Well
- Station Building
- Canopy
- Above Ground Storage Tank
- Off-site Building/Structure
- Water Body
- Property Boundary
- Curb

Sampled - Potable Wells

Sampled - Bottled Water Provided to Resident

*ND(5.0) - Not Detected (Detection Limit)*

*J - Estimated Value*

*Concentrations in µg/L*

*Data from: April 30 and May 1-3, 2012*

Total BTEX- Total Benzene, Toluene, Ethylbenzene, Xylenes
MTBE- Methyl tert-Butyl Ether
TBA - Tertiary butyl alcohol
TPH-GRO - Total petroleum hydrocarbons-gasoline range organics
TPH-DRO - Total petroleum hydrocarbons-diesel range organics

0 75 150 300 450 Feet

1 inch = 150 feet

Figure 8
Potable Well Concentration Map
Shell Station #137675
15541 New Hampshire Avenue
Silver Spring, MD

# TABLES

# *Table 1*
# *Well Gauge Report*
# *Former Shell Service Station #137675*

| *Well Name* | *Date* | *Depth to Product (ft)* | *Depth to Water (ft)* | *Product Thickness (ft)* | *Groundwater Elevation (ft)* | *Corrected GW Elevation (ft)* |
|---|---|---|---|---|---|---|
| **710 BNR [245, NA]** | | | | | | |
| | 06/11/2010 | ND | 25.55 | ND | 61.79 | 61.79 |
| | 08/27/2010 | ND | 28.97 | ND | 58.37 | 58.37 |
| | 12/02/2010 | ND | 29.55 | ND | 57.79 | 57.79 |
| | 12/21/2010 | ND | 29.68 | ND | 57.66 | 57.66 |
| | 01/05/2011 | ND | 29.73 | ND | 57.61 | 57.61 |
| | 01/11/2011 | ND | 29.87 | ND | 57.47 | 57.47 |
| | 01/18/2011 | ND | 29.88 | ND | 57.46 | 57.46 |
| | 01/25/2011 | ND | 29.96 | ND | 57.38 | 57.38 |
| | 02/01/2011 | ND | 30.02 | ND | 57.32 | 57.32 |
| | 02/07/2011 | ND | 29.94 | ND | 57.40 | 57.40 |
| | 02/23/2011 | ND | 29.72 | ND | 57.62 | 57.62 |
| | 03/03/2011 | ND | 29.56 | ND | 57.78 | 57.78 |
| | 03/07/2011 | ND | 29.31 | ND | 58.03 | 58.03 |
| | 03/15/2011 | ND | 28.69 | ND | 58.65 | 58.65 |
| | 03/22/2011 | ND | 28.01 | ND | 59.33 | 59.33 |
| | 03/29/2011 | ND | 27.58 | ND | 59.76 | 59.76 |
| | 04/05/2011 | ND | 27.09 | ND | 60.25 | 60.25 |
| | 04/11/2011 | ND | 26.92 | ND | 60.42 | 60.42 |
| | 04/18/2011 | ND | 26.74 | ND | 60.60 | 60.60 |
| | 04/27/2011 | ND | 26.08 | ND | 61.26 | 61.26 |
| | 05/06/2011 | ND | 26.08 | ND | 61.26 | 61.26 |
| | 05/16/2011 | ND | 26.10 | ND | 61.24 | 61.24 |
| | 05/24/2011 | ND | 26.09 | ND | 61.25 | 61.25 |
| | 05/31/2011 | ND | 26.35 | ND | 60.99 | 60.99 |
| | 06/09/2011 | ND | 26.69 | ND | 60.65 | 60.65 |
| | 06/15/2011 | ND | 26.40 | ND | 60.94 | 60.94 |
| | 06/23/2011 | ND | 27.39 | ND | 59.95 | 59.95 |
| | 06/29/2011 | ND | 26.63 | ND | 60.71 | 60.71 |
| | 07/07/2011 | ND | 25.64 | ND | 61.70 | 61.70 |
| | 07/14/2011 | ND | 28.61 | ND | 58.73 | 58.73 |
| | 07/20/2011 | ND | 28.93 | ND | 58.41 | 58.41 |
| | 07/27/2011 | ND | 29.28 | ND | 58.06 | 58.06 |
| | 08/04/2011 | ND | 26.67 | ND | 60.67 | 60.67 |
| | 08/08/2011 | ND | 29.94 | ND | 57.40 | 57.40 |
| | 08/15/2011 | ND | 30.30 | ND | 57.04 | 57.04 |
| | 08/24/2011 | ND | 29.88 | ND | 57.46 | 57.46 |
| | 08/31/2011 | ND | 31.31 | ND | 56.03 | 56.03 |
| | 09/16/2011 | ND | 30.84 | ND | 56.50 | 56.50 |
| | 09/20/2011 | ND | 30.65 | ND | 56.69 | 56.69 |
| | 09/28/2011 | ND | 30.50 | ND | 56.84 | 56.84 |

***Notes:***
***[Well Depth, Screen Interval] - Feet below ground surface***
***NC - Not Calculated - Top of casing elevation unknown, unable to calculate groundwater elevation***
***ND - Not Detected***
***NM-Not Measurable***
***NA-Not Available***

# *Table 1*
# *Well Gauge Report*
# *Former Shell Service Station #137675*

| *Well Name* | *Date* | *Depth to Product (ft)* | *Depth to Water (ft)* | *Product Thickness (ft)* | *Groundwater Elevation (ft)* | *Corrected GW Elevation (ft)* |
|---|---|---|---|---|---|---|
| **710 BNR [245, NA]** | | | | | | |
| | 10/03/2011 | ND | 30.46 | ND | 56.88 | 56.88 |
| | 10/20/2011 | ND | 30.12 | ND | 57.22 | 57.22 |
| | 10/27/2011 | ND | 30.09 | ND | 57.25 | 57.25 |
| | 10/31/2011 | ND | 29.91 | ND | 57.43 | 57.43 |
| | 11/09/2011 | ND | 30.03 | ND | 57.31 | 57.31 |
| | 11/16/2011 | ND | 29.94 | ND | 57.40 | 57.40 |
| | 11/23/2011 | ND | 29.39 | ND | 57.95 | 57.95 |
| | 11/30/2011 | ND | 29.54 | ND | 57.80 | 57.80 |
| | 12/09/2011 | ND | 29.46 | ND | 57.88 | 57.88 |
| | 12/14/2011 | ND | 29.41 | ND | 57.93 | 57.93 |
| | 12/21/2011 | ND | 28.70 | ND | 58.64 | 58.64 |
| | 12/28/2011 | ND | 28.33 | ND | 59.01 | 59.01 |
| | 01/03/2012 | ND | 28.56 | ND | 58.78 | 58.78 |
| | 01/10/2012 | ND | 28.65 | ND | 58.69 | 58.69 |
| | 01/17/2012 | ND | 28.73 | ND | 58.61 | 58.61 |
| | 01/25/2012 | ND | 28.69 | ND | 58.65 | 58.65 |
| | 02/01/2012 | ND | 27.81 | ND | 59.53 | 59.53 |
| | 02/08/2012 | ND | 27.81 | ND | 59.53 | 59.53 |
| | 02/14/2012 | ND | 27.83 | ND | 59.51 | 59.51 |
| | 03/01/2012 | ND | 27.80 | ND | 59.54 | 59.54 |
| | 03/07/2012 | ND | 27.91 | ND | 59.43 | 59.43 |
| | 03/20/2012 | ND | 27.75 | ND | 59.59 | 59.59 |
| | 03/29/2012 | ND | 27.81 | ND | 59.53 | 59.53 |
| | 04/03/2012 | ND | 27.85 | ND | 59.49 | 59.49 |
| | 04/10/2012 | ND | 27.75 | ND | 59.59 | 59.59 |
| | 04/17/2012 | ND | 27.93 | ND | 59.41 | 59.41 |
| | 04/24/2012 | ND | 27.99 | ND | 59.35 | 59.35 |
| | 04/30/2012 | ND | 28.12 | ND | 59.22 | 59.22 |
| | 05/10/2012 | ND | 28.10 | ND | 59.24 | 59.24 |
| | 05/15/2012 | ND | 28.19 | ND | 59.15 | 59.15 |
| | 05/22/2012 | ND | 28.62 | ND | 58.72 | 58.72 |
| | 05/31/2012 | ND | 28.60 | ND | 58.74 | 58.74 |
| | 06/13/2012 | ND | 29.21 | ND | 58.13 | 58.13 |
| | 06/19/2012 | ND | 29.43 | ND | 57.91 | 57.91 |
| | 06/27/2012 | ND | 29.51 | ND | 57.83 | 57.83 |
| **711 BNR [200, NA]** | | | | | | |
| | 06/11/2010 | ND | 22.57 | ND | 62.43 | 62.43 |
| | 08/27/2010 | ND | 26.74 | ND | 58.26 | 58.26 |
| | 12/02/2010 | ND | 27.38 | ND | 57.62 | 57.62 |
| | 12/21/2010 | ND | 27.57 | ND | 57.43 | 57.43 |

***Notes:***
***[Well Depth, Screen Interval] - Feet below ground surface***
***NC - Not Calculated - Top of casing elevation unknown, unable to calculate groundwater elevation***
***ND - Not Detected***
***NM-Not Measurable***
***NA-Not Available***

# *Table 1*
# *Well Gauge Report*
# *Former Shell Service Station #137675*

| *Well Name* | *Date* | *Depth to Product (ft)* | *Depth to Water (ft)* | *Product Thickness (ft)* | *Groundwater Elevation (ft)* | *Corrected GW Elevation (ft)* |
|---|---|---|---|---|---|---|
| **711 BNR [200, NA]** | | | | | | |
| | 01/05/2011 | ND | 27.54 | ND | 57.46 | 57.46 |
| | 01/11/2011 | ND | 27.63 | ND | 57.37 | 57.37 |
| | 01/18/2011 | ND | 27.62 | ND | 57.38 | 57.38 |
| | 01/25/2011 | ND | 28.11 | ND | 56.89 | 56.89 |
| | 02/01/2011 | ND | 27.80 | ND | 57.20 | 57.20 |
| | 02/07/2011 | ND | 27.83 | ND | 57.17 | 57.17 |
| | 02/23/2011 | ND | 27.44 | ND | 57.56 | 57.56 |
| | 03/03/2011 | ND | 27.22 | ND | 57.78 | 57.78 |
| | 03/07/2011 | ND | 27.04 | ND | 57.96 | 57.96 |
| | 03/15/2011 | ND | 26.37 | ND | 58.63 | 58.63 |
| | 03/22/2011 | ND | 25.70 | ND | 59.30 | 59.30 |
| | 03/29/2011 | ND | 25.04 | ND | 59.96 | 59.96 |
| | 04/05/2011 | ND | 24.64 | ND | 60.36 | 60.36 |
| | 04/11/2011 | ND | 24.40 | ND | 60.60 | 60.60 |
| | 04/18/2011 | ND | 24.33 | ND | 60.67 | 60.67 |
| | 04/27/2011 | ND | 23.50 | ND | 61.50 | 61.50 |
| | 05/06/2011 | ND | 23.49 | ND | 61.51 | 61.51 |
| | 05/16/2011 | ND | 23.48 | ND | 61.52 | 61.52 |
| | 05/24/2011 | ND | 23.41 | ND | 61.59 | 61.59 |
| | 05/31/2011 | ND | 23.63 | ND | 61.37 | 61.37 |
| | 06/09/2011 | ND | 23.98 | ND | 61.02 | 61.02 |
| | 06/15/2011 | ND | 24.00 | ND | 61.00 | 61.00 |
| | 06/23/2011 | ND | 24.72 | ND | 60.28 | 60.28 |
| | 06/29/2011 | ND | 23.99 | ND | 61.01 | 61.01 |
| | 07/07/2011 | ND | 28.25 | ND | 56.75 | 56.75 |
| | 07/14/2011 | ND | 26.16 | ND | 58.84 | 58.84 |
| | 07/20/2011 | ND | 26.52 | ND | 58.48 | 58.48 |
| | 07/27/2011 | ND | 26.82 | ND | 58.18 | 58.18 |
| | 08/04/2011 | ND | 27.01 | ND | 57.99 | 57.99 |
| | 08/08/2011 | ND | 27.51 | ND | 57.49 | 57.49 |
| | 08/15/2011 | ND | 28.01 | ND | 56.99 | 56.99 |
| | 08/24/2011 | ND | 27.43 | ND | 57.57 | 57.57 |
| | 08/31/2011 | ND | 28.61 | ND | 56.39 | 56.39 |
| | 09/16/2011 | ND | 28.25 | ND | 56.75 | 56.75 |
| | 09/20/2011 | ND | 27.91 | ND | 57.09 | 57.09 |
| | 09/28/2011 | ND | 27.74 | ND | 57.26 | 57.26 |
| | 10/03/2011 | ND | 27.70 | ND | 57.30 | 57.30 |
| | 10/20/2011 | ND | 27.40 | ND | 57.60 | 57.60 |
| | 10/27/2011 | ND | 27.36 | ND | 57.64 | 57.64 |
| | 10/31/2011 | ND | 27.21 | ND | 57.79 | 57.79 |

***Notes:***
***[Well Depth, Screen Interval] - Feet below ground surface***
***NC - Not Calculated - Top of casing elevation unknown, unable to calculate groundwater elevation***
***ND - Not Detected***
***NM-Not Measurable***
***NA-Not Available***

# *Table 1*
# *Well Gauge Report*
# *Former Shell Service Station #137675*

| *Well Name* | *Date* | *Depth to Product (ft)* | *Depth to Water (ft)* | *Product Thickness (ft)* | *Groundwater Elevation (ft)* | *Corrected GW Elevation (ft)* |
|---|---|---|---|---|---|---|
| **711 BNR [200, NA]** | | | | | | |
| | 11/09/2011 | ND | 27.29 | ND | 57.71 | 57.71 |
| | 11/16/2011 | ND | 27.19 | ND | 57.81 | 57.81 |
| | 11/23/2011 | ND | 26.66 | ND | 58.34 | 58.34 |
| | 11/30/2011 | ND | 26.83 | ND | 58.17 | 58.17 |
| | 12/09/2011 | ND | 26.51 | ND | 58.49 | 58.49 |
| | 12/14/2011 | ND | 26.48 | ND | 58.52 | 58.52 |
| | 12/21/2011 | ND | 28.72 | ND | 56.28 | 56.28 |
| | 12/28/2011 | ND | 25.88 | ND | 59.12 | 59.12 |
| | 01/03/2012 | ND | 26.11 | ND | 58.89 | 58.89 |
| | 01/10/2012 | ND | 26.19 | ND | 58.81 | 58.81 |
| | 01/17/2012 | ND | 26.25 | ND | 58.75 | 58.75 |
| | 01/25/2012 | ND | 26.17 | ND | 58.83 | 58.83 |
| | 02/01/2012 | ND | 25.13 | ND | 59.87 | 59.87 |
| | 02/08/2012 | ND | 25.11 | ND | 59.89 | 59.89 |
| | 02/14/2012 | ND | 25.11 | ND | 59.89 | 59.89 |
| | 03/01/2012 | ND | 24.96 | ND | 60.04 | 60.04 |
| | 03/07/2012 | ND | 25.30 | ND | 59.70 | 59.70 |
| | 03/20/2012 | ND | 25.05 | ND | 59.95 | 59.95 |
| | 03/29/2012 | ND | 25.15 | ND | 59.85 | 59.85 |
| | 04/03/2012 | ND | 25.17 | ND | 59.83 | 59.83 |
| | 04/10/2012 | ND | 25.11 | ND | 59.89 | 59.89 |
| | 04/17/2012 | ND | 25.27 | ND | 59.73 | 59.73 |
| | 04/24/2012 | ND | 25.34 | ND | 59.66 | 59.66 |
| | 04/30/2012 | ND | 25.52 | ND | 59.48 | 59.48 |
| | 05/10/2012 | ND | 25.59 | ND | 59.41 | 59.41 |
| | 05/15/2012 | ND | 25.36 | ND | 59.64 | 59.64 |
| | 05/22/2012 | ND | 25.39 | ND | 59.61 | 59.61 |
| | 05/31/2012 | ND | 26.22 | ND | 58.78 | 58.78 |
| | 06/13/2012 | ND | 26.64 | ND | 58.36 | 58.36 |
| | 06/19/2012 | ND | 26.80 | ND | 58.20 | 58.20 |
| | 06/27/2012 | ND | 26.88 | ND | 58.12 | 58.12 |
| **720 BNR [260, NA]** | | | | | | |
| | 06/11/2010 | ND | 25.66 | ND | 67.00 | 67.00 |
| | 08/27/2010 | ND | 29.36 | ND | 63.30 | 63.30 |
| | 12/02/2010 | ND | 29.72 | ND | 62.94 | 62.94 |
| | 12/21/2010 | ND | 29.91 | ND | 62.75 | 62.75 |
| | 01/05/2011 | ND | 29.99 | ND | 62.67 | 62.67 |
| | 01/11/2011 | ND | 30.11 | ND | 62.55 | 62.55 |
| | 01/18/2011 | ND | 30.07 | ND | 62.59 | 62.59 |
| | 01/25/2011 | ND | 30.21 | ND | 62.45 | 62.45 |

***Notes:***
***[Well Depth, Screen Interval] - Feet below ground surface***
***NC - Not Calculated - Top of casing elevation unknown, unable to calculate groundwater elevation***
***ND - Not Detected***
***NM-Not Measurable***
***NA-Not Available***

# *Table 1*
# *Well Gauge Report*
# *Former Shell Service Station #137675*

| *Well Name* | *Date* | *Depth to Product (ft)* | *Depth to Water (ft)* | *Product Thickness (ft)* | *Groundwater Elevation (ft)* | *Corrected GW Elevation (ft)* |
|---|---|---|---|---|---|---|
| **720 BNR [260, NA]** | | | | | | |
| | 02/01/2011 | ND | 30.26 | ND | 62.40 | 62.40 |
| | 02/07/2011 | ND | 30.16 | ND | 62.50 | 62.50 |
| | 02/23/2011 | ND | 29.96 | ND | 62.70 | 62.70 |
| | 03/03/2011 | ND | 29.73 | ND | 62.93 | 62.93 |
| | 03/07/2011 | ND | 29.58 | ND | 63.08 | 63.08 |
| | 03/15/2011 | ND | 28.83 | ND | 63.83 | 63.83 |
| | 03/22/2011 | ND | 28.15 | ND | 64.51 | 64.51 |
| | 03/29/2011 | ND | 27.73 | ND | 64.93 | 64.93 |
| | 04/05/2011 | ND | 27.38 | ND | 65.28 | 65.28 |
| | 04/11/2011 | ND | 27.13 | ND | 65.53 | 65.53 |
| | 04/18/2011 | ND | 26.99 | ND | 65.67 | 65.67 |
| | 04/27/2011 | ND | 26.27 | ND | 66.39 | 66.39 |
| | 05/06/2011 | ND | 26.28 | ND | 66.38 | 66.38 |
| | 05/16/2011 | ND | 26.29 | ND | 66.37 | 66.37 |
| | 05/24/2011 | ND | 26.39 | ND | 66.27 | 66.27 |
| | 05/31/2011 | ND | 26.69 | ND | 65.97 | 65.97 |
| | 06/09/2011 | ND | 27.22 | ND | 65.44 | 65.44 |
| | 06/15/2011 | ND | 27.11 | ND | 65.55 | 65.55 |
| | 06/23/2011 | ND | 27.85 | ND | 64.81 | 64.81 |
| | 06/29/2011 | ND | 27.14 | ND | 65.52 | 65.52 |
| | 07/07/2011 | ND | 28.73 | ND | 63.93 | 63.93 |
| | 07/14/2011 | ND | 29.15 | ND | 63.51 | 63.51 |
| | 07/20/2011 | ND | 29.46 | ND | 63.20 | 63.20 |
| | 07/27/2011 | ND | 29.97 | ND | 62.69 | 62.69 |
| | 08/04/2011 | ND | 30.09 | ND | 62.57 | 62.57 |
| | 08/08/2011 | ND | 30.49 | ND | 62.17 | 62.17 |
| | 08/15/2011 | ND | 30.78 | ND | 61.88 | 61.88 |
| | 08/24/2011 | ND | 30.86 | ND | 61.80 | 61.80 |
| | 08/31/2011 | ND | 30.31 | ND | 62.35 | 62.35 |
| | 09/16/2011 | ND | 30.74 | ND | 61.92 | 61.92 |
| | 09/20/2011 | ND | 30.56 | ND | 62.10 | 62.10 |
| | 09/28/2011 | ND | 30.48 | ND | 62.18 | 62.18 |
| | 10/03/2011 | ND | 30.42 | ND | 62.24 | 62.24 |
| | 10/20/2011 | ND | 30.22 | ND | 62.44 | 62.44 |
| | 10/27/2011 | ND | 30.15 | ND | 62.51 | 62.51 |
| | 10/31/2011 | ND | 30.09 | ND | 62.57 | 62.57 |
| | 11/09/2011 | ND | 30.00 | ND | 62.66 | 62.66 |
| | 11/16/2011 | ND | 29.93 | ND | 62.73 | 62.73 |
| | 11/23/2011 | ND | 29.63 | ND | 63.03 | 63.03 |
| | 11/30/2011 | ND | 29.81 | ND | 62.85 | 62.85 |

***Notes:***
***[Well Depth, Screen Interval] - Feet below ground surface***
***NC - Not Calculated - Top of casing elevation unknown, unable to calculate groundwater elevation***
***ND - Not Detected***
***NM-Not Measurable***
***NA-Not Available***

# *Table 1*
# *Well Gauge Report*
# *Former Shell Service Station #137675*

| *Well Name* | *Date* | *Depth to Product (ft)* | *Depth to Water (ft)* | *Product Thickness (ft)* | *Groundwater Elevation (ft)* | *Corrected GW Elevation (ft)* |
|---|---|---|---|---|---|---|
| **720 BNR [260, NA]** | | | | | | |
| | 12/09/2011 | ND | 29.63 | ND | 63.03 | 63.03 |
| | 12/14/2011 | ND | 29.58 | ND | 63.08 | 63.08 |
| | 12/21/2011 | ND | 28.45 | ND | 64.21 | 64.21 |
| | 12/28/2011 | ND | 28.63 | ND | 64.03 | 64.03 |
| | 01/03/2012 | ND | 28.50 | ND | 64.16 | 64.16 |
| | 01/10/2012 | ND | 28.56 | ND | 64.10 | 64.10 |
| | 01/17/2012 | ND | 28.61 | ND | 64.05 | 64.05 |
| | 01/25/2012 | ND | 28.51 | ND | 64.15 | 64.15 |
| | 02/01/2012 | ND | 28.04 | ND | 64.62 | 64.62 |
| | 02/08/2012 | ND | 28.10 | ND | 64.56 | 64.56 |
| | 02/14/2012 | ND | 28.10 | ND | 64.56 | 64.56 |
| | 03/01/2012 | ND | 28.00 | ND | 64.66 | 64.66 |
| | 03/07/2012 | ND | 28.26 | ND | 64.40 | 64.40 |
| | 03/20/2012 | ND | 28.01 | ND | 64.65 | 64.65 |
| | 03/29/2012 | ND | 28.10 | ND | 64.56 | 64.56 |
| | 04/03/2012 | ND | 28.16 | ND | 64.50 | 64.50 |
| | 04/10/2012 | ND | 28.05 | ND | 64.61 | 64.61 |
| | 04/17/2012 | ND | 28.32 | ND | 64.34 | 64.34 |
| | 04/24/2012 | ND | 28.40 | ND | 64.26 | 64.26 |
| | 04/30/2012 | ND | 28.53 | ND | 64.13 | 64.13 |
| | 05/10/2012 | ND | 28.62 | ND | 64.04 | 64.04 |
| | 05/15/2012 | ND | 28.70 | ND | 63.96 | 63.96 |
| | 05/22/2012 | ND | 28.75 | ND | 63.91 | 63.91 |
| | 05/31/2012 | ND | 29.26 | ND | 63.40 | 63.40 |
| | 06/13/2012 | ND | 29.51 | ND | 63.15 | 63.15 |
| | 06/19/2012 | ND | 29.58 | ND | 63.08 | 63.08 |
| | 06/27/2012 | ND | 29.67 | ND | 62.99 | 62.99 |
| **721 BNR [405, NA]** | | | | | | |
| | 06/11/2010 | ND | 24.40 | ND | 65.78 | 65.78 |
| | 08/27/2010 | ND | 27.30 | ND | 62.88 | 62.88 |
| | 12/02/2010 | ND | 27.70 | ND | 62.48 | 62.48 |
| | 12/21/2010 | ND | 27.82 | ND | 62.36 | 62.36 |
| | 01/05/2011 | ND | 27.96 | ND | 62.22 | 62.22 |
| | 01/11/2011 | ND | 28.10 | ND | 62.08 | 62.08 |
| | 01/18/2011 | ND | 28.04 | ND | 62.14 | 62.14 |
| | 01/25/2011 | ND | 28.19 | ND | 61.99 | 61.99 |
| | 02/01/2011 | ND | 28.20 | ND | 61.98 | 61.98 |
| | 02/07/2011 | ND | 27.84 | ND | 62.34 | 62.34 |
| | 02/23/2011 | ND | 27.80 | ND | 62.38 | 62.38 |
| | 03/03/2011 | ND | 27.58 | ND | 62.60 | 62.60 |

***Notes:***
***[Well Depth, Screen Interval] - Feet below ground surface***
***NC - Not Calculated - Top of casing elevation unknown, unable to calculate groundwater elevation***
***ND - Not Detected***
***NM-Not Measurable***
***NA-Not Available***

# *Table 1*
# *Well Gauge Report*
# *Former Shell Service Station #137675*

| *Well Name* | *Date* | *Depth to Product (ft)* | *Depth to Water (ft)* | *Product Thickness (ft)* | *Groundwater Elevation (ft)* | *Corrected GW Elevation (ft)* |
|---|---|---|---|---|---|---|
| **721 BNR [405, NA]** | | | | | | |
| | 03/07/2011 | ND | 26.82 | ND | 63.36 | 63.36 |
| | 03/15/2011 | ND | 26.83 | ND | 63.35 | 63.35 |
| | 03/22/2011 | ND | 26.24 | ND | 63.94 | 63.94 |
| | 03/29/2011 | ND | 25.86 | ND | 64.32 | 64.32 |
| | 04/05/2011 | ND | 25.33 | ND | 64.85 | 64.85 |
| | 04/11/2011 | ND | 25.38 | ND | 64.80 | 64.80 |
| | 04/18/2011 | ND | 25.04 | ND | 65.14 | 65.14 |
| | 04/27/2011 | ND | 24.77 | ND | 65.41 | 65.41 |
| | 05/06/2011 | ND | 24.70 | ND | 65.48 | 65.48 |
| | 05/16/2011 | ND | 24.71 | ND | 65.47 | 65.47 |
| | 05/24/2011 | ND | 24.85 | ND | 65.33 | 65.33 |
| | 05/31/2011 | ND | 25.20 | ND | 64.98 | 64.98 |
| | 06/09/2011 | ND | 25.84 | ND | 64.34 | 64.34 |
| | 06/15/2011 | ND | 25.94 | ND | 64.24 | 64.24 |
| | 06/23/2011 | ND | 26.35 | ND | 63.83 | 63.83 |
| | 06/29/2011 | ND | 25.06 | ND | 65.12 | 65.12 |
| | 07/07/2011 | ND | 27.22 | ND | 62.96 | 62.96 |
| | 07/14/2011 | ND | 27.47 | ND | 62.71 | 62.71 |
| | 07/20/2011 | ND | 27.79 | ND | 62.39 | 62.39 |
| | 07/27/2011 | ND | 28.11 | ND | 62.07 | 62.07 |
| | 08/04/2011 | ND | 28.53 | ND | 61.65 | 61.65 |
| | 08/08/2011 | ND | 28.66 | ND | 61.52 | 61.52 |
| | 08/15/2011 | ND | 28.96 | ND | 61.22 | 61.22 |
| | 08/24/2011 | ND | 29.95 | ND | 60.23 | 60.23 |
| | 08/31/2011 | ND | 30.35 | ND | 59.83 | 59.83 |
| | 09/16/2011 | ND | 29.81 | ND | 60.37 | 60.37 |
| | 09/20/2011 | ND | 29.70 | ND | 60.48 | 60.48 |
| | 09/28/2011 | ND | 29.55 | ND | 60.63 | 60.63 |
| | 10/03/2011 | ND | 29.51 | ND | 60.67 | 60.67 |
| | 10/20/2011 | ND | 29.10 | ND | 61.08 | 61.08 |
| | 10/27/2011 | ND | 29.02 | ND | 61.16 | 61.16 |
| | 10/31/2011 | ND | 28.95 | ND | 61.23 | 61.23 |
| | 11/09/2011 | ND | 28.98 | ND | 61.20 | 61.20 |
| | 11/16/2011 | ND | 28.90 | ND | 61.28 | 61.28 |
| | 11/23/2011 | ND | 28.31 | ND | 61.87 | 61.87 |
| | 11/30/2011 | ND | 28.44 | ND | 61.74 | 61.74 |
| | 12/09/2011 | ND | 28.29 | ND | 61.89 | 61.89 |
| | 12/14/2011 | ND | 28.30 | ND | 61.88 | 61.88 |
| | 12/21/2011 | ND | 27.45 | ND | 62.73 | 62.73 |
| | 12/28/2011 | ND | 27.24 | ND | 62.94 | 62.94 |

***Notes:***
***[Well Depth, Screen Interval] - Feet below ground surface***
***NC - Not Calculated - Top of casing elevation unknown, unable to calculate groundwater elevation***
***ND - Not Detected***
***NM-Not Measurable***
***NA-Not Available***

# *Table 1*
# *Well Gauge Report*
# *Former Shell Service Station #137675*

| *Well Name* | *Date* | *Depth to Product (ft)* | *Depth to Water (ft)* | *Product Thickness (ft)* | *Groundwater Elevation (ft)* | *Corrected GW Elevation (ft)* |
|---|---|---|---|---|---|---|
| **721 BNR [405, NA]** | | | | | | |
| | 01/03/2012 | ND | 27.36 | ND | 62.82 | 62.82 |
| | 01/10/2012 | ND | 27.41 | ND | 62.77 | 62.77 |
| | 01/17/2012 | ND | 27.53 | ND | 62.65 | 62.65 |
| | 01/25/2012 | ND | 27.49 | ND | 62.69 | 62.69 |
| | 02/01/2012 | ND | 26.68 | ND | 63.50 | 63.50 |
| | 02/08/2012 | ND | 26.68 | ND | 63.50 | 63.50 |
| | 02/14/2012 | ND | 26.64 | ND | 63.54 | 63.54 |
| | 03/01/2012 | ND | 26.63 | ND | 63.55 | 63.55 |
| | 03/07/2012 | ND | 26.68 | ND | 63.50 | 63.50 |
| | 03/20/2012 | ND | 26.49 | ND | 63.69 | 63.69 |
| | 03/29/2012 | ND | 26.55 | ND | 63.63 | 63.63 |
| | 04/03/2012 | ND | 26.58 | ND | 63.60 | 63.60 |
| | 04/10/2012 | ND | 26.11 | ND | 64.07 | 64.07 |
| | 04/17/2012 | ND | 26.71 | ND | 63.47 | 63.47 |
| | 04/24/2012 | ND | 26.78 | ND | 63.40 | 63.40 |
| | 04/30/2012 | ND | 27.01 | ND | 63.17 | 63.17 |
| | 05/10/2012 | ND | 26.94 | ND | 63.24 | 63.24 |
| | 05/15/2012 | ND | 27.03 | ND | 63.15 | 63.15 |
| | 05/22/2012 | ND | 27.10 | ND | 63.08 | 63.08 |
| | 05/31/2012 | ND | 27.65 | ND | 62.53 | 62.53 |
| | 06/13/2012 | ND | 27.95 | ND | 62.23 | 62.23 |
| | 06/19/2012 | ND | 27.98 | ND | 62.20 | 62.20 |
| | 06/27/2012 | ND | 28.12 | ND | 62.06 | 62.06 |
| **730 BND [65, 40 - 65]** | | | | | | |
| | 10/01/2010 | ND | 27.51 | ND | 64.22 | 64.22 |
| | 12/02/2010 | ND | 27.32 | ND | 64.41 | 64.41 |
| | 05/16/2011 | ND | 24.44 | ND | 67.29 | 67.29 |
| | 08/08/2011 | ND | 28.05 | ND | 63.68 | 63.68 |
| | 10/31/2011 | ND | 27.80 | ND | 63.93 | 63.93 |
| | 02/01/2012 | ND | 25.81 | ND | 65.92 | 65.92 |
| | 04/30/2012 | ND | 26.33 | ND | 65.40 | 65.40 |
| **730 BNS [35, 10 - 35]** | | | | | | |
| | 10/01/2010 | ND | 28.11 | ND | 63.60 | 63.60 |
| | 12/02/2010 | ND | 28.02 | ND | 63.69 | 63.69 |
| | 05/16/2011 | ND | 24.34 | ND | 67.37 | 67.37 |
| | 08/08/2011 | ND | 28.68 | ND | 63.03 | 63.03 |
| | 10/31/2011 | ND | 28.28 | ND | 63.43 | 63.43 |
| | 02/01/2012 | ND | 26.24 | ND | 65.47 | 65.47 |
| | 04/30/2012 | ND | 26.81 | ND | 64.90 | 64.90 |

***Notes:***
***[Well Depth, Screen Interval] - Feet below ground surface***
***NC - Not Calculated - Top of casing elevation unknown, unable to calculate groundwater elevation***
***ND - Not Detected***
***NM-Not Measurable***
***NA-Not Available***

# *Table 1*
# *Well Gauge Report*
# *Former Shell Service Station #137675*

| *Well Name* | *Date* | *Depth to Product (ft)* | *Depth to Water (ft)* | *Product Thickness (ft)* | *Groundwater Elevation (ft)* | *Corrected GW Elevation (ft)* |
|---|---|---|---|---|---|---|
| **740 BNR [300, NA]** | | | | | | |
| | 12/02/2010 | ND | 29.61 | ND | 63.48 | 63.48 |
| | 12/21/2010 | ND | 26.13 | ND | 66.96 | 66.96 |
| | 01/05/2011 | ND | 26.32 | ND | 66.77 | 66.77 |
| | 01/11/2011 | ND | 26.65 | ND | 66.44 | 66.44 |
| | 01/18/2011 | ND | 26.25 | ND | 66.84 | 66.84 |
| | 01/25/2011 | ND | 26.42 | ND | 66.67 | 66.67 |
| | 02/01/2011 | ND | 26.39 | ND | 66.70 | 66.70 |
| | 02/07/2011 | ND | 26.28 | ND | 66.81 | 66.81 |
| | 02/23/2011 | ND | 25.99 | ND | 67.10 | 67.10 |
| | 03/03/2011 | ND | 25.69 | ND | 67.40 | 67.40 |
| | 03/07/2011 | ND | 25.57 | ND | 67.52 | 67.52 |
| | 03/15/2011 | ND | 24.98 | ND | 68.11 | 68.11 |
| | 03/22/2011 | ND | 24.39 | ND | 68.70 | 68.70 |
| | 03/29/2011 | ND | 24.18 | ND | 68.91 | 68.91 |
| | 04/05/2011 | ND | 23.89 | ND | 69.20 | 69.20 |
| | 04/11/2011 | ND | 23.87 | ND | 69.22 | 69.22 |
| | 04/18/2011 | ND | 23.73 | ND | 69.36 | 69.36 |
| | 04/27/2011 | ND | 23.14 | ND | 69.95 | 69.95 |
| | 05/06/2011 | ND | 22.91 | ND | 70.18 | 70.18 |
| | 05/16/2011 | ND | 13.02 | ND | 80.07 | 80.07 |
| | 05/24/2011 | ND | 23.21 | ND | 69.88 | 69.88 |
| | 05/31/2011 | ND | 23.67 | ND | 69.42 | 69.42 |
| | 06/09/2011 | ND | 25.02 | ND | 68.07 | 68.07 |
| | 06/15/2011 | ND | 24.52 | ND | 68.57 | 68.57 |
| | 06/23/2011 | ND | 24.66 | ND | 68.43 | 68.43 |
| | 06/29/2011 | ND | 24.27 | ND | 68.82 | 68.82 |
| | 07/07/2011 | ND | 25.55 | ND | 67.54 | 67.54 |
| | 07/14/2011 | ND | 25.80 | ND | 67.29 | 67.29 |
| | 07/20/2011 | ND | 26.40 | ND | 66.69 | 66.69 |
| | 07/27/2011 | ND | 26.76 | ND | 66.33 | 66.33 |
| | 08/04/2011 | ND | 26.91 | ND | 66.18 | 66.18 |
| | 08/08/2011 | ND | 27.28 | ND | 65.81 | 65.81 |
| | 08/15/2011 | ND | 27.55 | ND | 65.54 | 65.54 |
| | 08/24/2011 | ND | 27.94 | ND | 65.15 | 65.15 |
| | 08/31/2011 | ND | 28.35 | ND | 64.74 | 64.74 |
| | 09/16/2011 | ND | 27.04 | ND | 66.05 | 66.05 |
| | 09/20/2011 | ND | 26.86 | ND | 66.23 | 66.23 |
| | 09/28/2011 | ND | 26.95 | ND | 66.14 | 66.14 |
| | 10/03/2011 | ND | 26.89 | ND | 66.20 | 66.20 |
| | 10/20/2011 | ND | 26.65 | ND | 66.44 | 66.44 |

***Notes:***
***[Well Depth, Screen Interval] - Feet below ground surface***
***NC - Not Calculated - Top of casing elevation unknown, unable to calculate groundwater elevation***
***ND - Not Detected***
***NM-Not Measurable***
***NA-Not Available***

# *Table 1*
# *Well Gauge Report*
# *Former Shell Service Station #137675*

| *Well Name* | *Date* | *Depth to Product (ft)* | *Depth to Water (ft)* | *Product Thickness (ft)* | *Groundwater Elevation (ft)* | *Corrected GW Elevation (ft)* |
|---|---|---|---|---|---|---|
| **740 BNR [300, NA]** | | | | | | |
| | 10/27/2011 | ND | 26.59 | ND | 66.50 | 66.50 |
| | 10/31/2011 | ND | 26.65 | ND | 66.44 | 66.44 |
| | 11/09/2011 | ND | 26.54 | ND | 66.55 | 66.55 |
| | 11/16/2011 | ND | 26.48 | ND | 66.61 | 66.61 |
| | 11/23/2011 | ND | 26.10 | ND | 66.99 | 66.99 |
| | 11/30/2011 | ND | 26.19 | ND | 66.90 | 66.90 |
| | 12/09/2011 | ND | 26.05 | ND | 67.04 | 67.04 |
| | 12/14/2011 | ND | 26.11 | ND | 66.98 | 66.98 |
| | 12/21/2011 | ND | 25.10 | ND | 67.99 | 67.99 |
| | 12/28/2011 | ND | 25.12 | ND | 67.97 | 67.97 |
| | 01/03/2012 | ND | 25.13 | ND | 67.96 | 67.96 |
| | 01/10/2012 | ND | 25.20 | ND | 67.89 | 67.89 |
| | 01/17/2012 | ND | 25.29 | ND | 67.80 | 67.80 |
| | 01/25/2012 | ND | 25.29 | ND | 67.80 | 67.80 |
| | 02/01/2012 | ND | 24.72 | ND | 68.37 | 68.37 |
| | 02/08/2012 | ND | 24.85 | ND | 68.24 | 68.24 |
| | 02/14/2012 | ND | 24.87 | ND | 68.22 | 68.22 |
| | 03/01/2012 | ND | 24.89 | ND | 68.20 | 68.20 |
| | 03/07/2012 | ND | 25.05 | ND | 68.04 | 68.04 |
| | 03/20/2012 | ND | 24.80 | ND | 68.29 | 68.29 |
| | 03/29/2012 | ND | 24.87 | ND | 68.22 | 68.22 |
| | 04/03/2012 | ND | 24.93 | ND | 68.16 | 68.16 |
| | 04/10/2012 | ND | 25.04 | ND | 68.05 | 68.05 |
| | 04/17/2012 | ND | 25.51 | ND | 67.58 | 67.58 |
| | 04/24/2012 | ND | 25.63 | ND | 67.46 | 67.46 |
| | 04/30/2012 | ND | 25.46 | ND | 67.63 | 67.63 |
| | 05/10/2012 | ND | 25.56 | ND | 67.53 | 67.53 |
| | 05/15/2012 | ND | 25.62 | ND | 67.47 | 67.47 |
| | 05/22/2012 | ND | 25.69 | ND | 67.40 | 67.40 |
| | 05/31/2012 | ND | 26.50 | ND | 66.59 | 66.59 |
| | 06/13/2012 | ND | 26.40 | ND | 66.69 | 66.69 |
| | 06/19/2012 | ND | 26.49 | ND | 66.60 | 66.60 |
| | 06/27/2012 | ND | 26.54 | ND | 66.55 | 66.55 |
| **741 BRYANTS NURSERY** | | | | | | |
| | 06/11/2010 | ND | 7.40 | ND | 67.43 | 67.43 |
| | 08/27/2010 | ND | 9.22 | ND | 65.61 | 65.61 |
| **750 BND [65, 53 - 65]** | | | | | | |
| | 06/22/2005 | ND | 17.83 | ND | 75.05 | 75.05 |
| | 11/17/2005 | ND | 20.36 | ND | 72.52 | 72.52 |

***Notes:***
***[Well Depth, Screen Interval] - Feet below ground surface***
***NC - Not Calculated - Top of casing elevation unknown, unable to calculate groundwater elevation***
***ND - Not Detected***
***NM-Not Measurable***
***NA-Not Available***

# *Table 1*
# *Well Gauge Report*
# *Former Shell Service Station #137675*

| *Well Name* | *Date* | *Depth to Product (ft)* | *Depth to Water (ft)* | *Product Thickness (ft)* | *Groundwater Elevation (ft)* | *Corrected GW Elevation (ft)* |
|---|---|---|---|---|---|---|
| **750 BND [65, 53 - 65]** | | | | | | |
| | 03/30/2006 | ND | 18.46 | ND | 74.42 | 74.42 |
| | 06/29/2006 | ND | 18.09 | ND | 74.79 | 74.79 |
| | 09/28/2006 | ND | 20.60 | ND | 72.28 | 72.28 |
| | 12/19/2006 | ND | 19.29 | ND | 73.59 | 73.59 |
| | 03/06/2007 | ND | 18.03 | ND | 74.85 | 74.85 |
| | 06/22/2007 | ND | 17.60 | ND | 75.28 | 75.28 |
| | 09/25/2007 | ND | 54.55 | ND | 38.33 | 38.33 |
| | 12/05/2007 | ND | 46.02 | ND | 46.86 | 46.86 |
| | 03/25/2008 | ND | 20.30 | ND | 72.58 | 72.58 |
| | 06/24/2008 | ND | 16.70 | ND | 76.18 | 76.18 |
| | 09/15/2008 | ND | 20.93 | ND | 71.95 | 71.95 |
| | 12/12/2008 | ND | 25.35 | ND | 67.53 | 67.53 |
| | 02/20/2009 | ND | 20.02 | ND | 72.86 | 72.86 |
| | 05/07/2009 | ND | 19.47 | ND | 73.41 | 73.41 |
| | 09/23/2009 | ND | 19.78 | ND | 73.10 | 73.10 |
| | 12/07/2009 | ND | 19.42 | ND | 73.46 | 73.46 |
| | 03/11/2010 | ND | 15.35 | ND | 77.53 | 77.53 |
| | 05/20/2010 | ND | 14.47 | ND | 78.41 | 78.41 |
| | 09/27/2010 | ND | 20.03 | ND | 72.85 | 72.85 |
| | 12/02/2010 | ND | 20.52 | ND | 72.36 | 72.36 |
| | 02/14/2011 | ND | 22.20 | ND | 70.68 | 70.68 |
| | 05/16/2011 | ND | 18.95 | ND | 73.93 | 73.93 |
| | 08/08/2011 | ND | 22.43 | ND | 70.45 | 70.45 |
| | 10/31/2011 | ND | 22.76 | ND | 70.12 | 70.12 |
| | 02/01/2012 | ND | 25.11 | ND | 67.77 | 67.77 |
| | 04/30/2012 | ND | 21.64 | ND | 71.24 | 71.24 |
| **750 BNR [98, 88 - 98]** | | | | | | |
| | 06/22/2005 | ND | 8.18 | ND | 84.73 | 84.73 |
| | 11/17/2005 | ND | 19.10 | ND | 73.81 | 73.81 |
| | 06/29/2006 | ND | 20.16 | ND | 72.75 | 72.75 |
| | 09/28/2006 | ND | 22.70 | ND | 70.21 | 70.21 |
| | 12/19/2006 | ND | 25.38 | ND | 67.53 | 67.53 |
| | 03/06/2007 | ND | 29.24 | ND | 63.67 | 63.67 |
| | 06/22/2007 | ND | 44.25 | ND | 48.66 | 48.66 |
| | 09/25/2007 | ND | 21.90 | ND | 71.01 | 71.01 |
| | 12/05/2007 | ND | 22.91 | ND | 70.00 | 70.00 |
| | 03/25/2008 | ND | 44.51 | ND | 48.40 | 48.40 |
| | 06/24/2008 | ND | 58.89 | ND | 34.02 | 34.02 |
| | 09/15/2008 | ND | 54.02 | ND | 38.89 | 38.89 |
| | 12/12/2008 | ND | 56.73 | ND | 36.18 | 36.18 |

***Notes:***
***[Well Depth, Screen Interval] - Feet below ground surface***
***NC - Not Calculated - Top of casing elevation unknown, unable to calculate groundwater elevation***
***ND - Not Detected***
***NM-Not Measurable***
***NA-Not Available***

# *Table 1*
# *Well Gauge Report*
# *Former Shell Service Station #137675*

| *Well Name* | *Date* | *Depth to Product (ft)* | *Depth to Water (ft)* | *Product Thickness (ft)* | *Groundwater Elevation (ft)* | *Corrected GW Elevation (ft)* |
|---|---|---|---|---|---|---|
| **750 BNR [98, 88 - 98]** | | | | | | |
| | 02/20/2009 | ND | 52.23 | ND | 40.68 | 40.68 |
| | 05/07/2009 | ND | 46.45 | ND | 46.46 | 46.46 |
| | 09/23/2009 | ND | 31.13 | ND | 61.78 | 61.78 |
| | 12/07/2009 | ND | 36.75 | ND | 56.16 | 56.16 |
| | 03/11/2010 | ND | 31.35 | ND | 61.56 | 61.56 |
| | 05/20/2010 | ND | 31.97 | ND | 60.94 | 60.94 |
| | 09/27/2010 | ND | 26.88 | ND | 66.03 | 66.03 |
| | 12/02/2010 | ND | 24.76 | ND | 68.15 | 68.15 |
| | 12/21/2010 | ND | 40.60 | ND | 52.31 | 52.31 |
| | 02/14/2011 | ND | 29.92 | ND | 62.99 | 62.99 |
| | 05/16/2011 | ND | 23.85 | ND | 69.06 | 69.06 |
| | 08/08/2011 | ND | 23.74 | ND | 69.17 | 69.17 |
| | 10/31/2011 | ND | 24.56 | ND | 68.35 | 68.35 |
| | 02/01/2012 | ND | 24.10 | ND | 68.81 | 68.81 |
| | 04/30/2012 | ND | 21.92 | ND | 70.99 | 70.99 |
| **750 BNS [28, 19 - 28]** | | | | | | |
| | 06/22/2005 | ND | 15.60 | ND | 77.27 | 77.27 |
| | 11/17/2005 | ND | 15.20 | ND | 77.67 | 77.67 |
| | 03/30/2006 | ND | 15.36 | ND | 77.51 | 77.51 |
| | 06/29/2006 | ND | 20.19 | ND | 72.68 | 72.68 |
| | 09/28/2006 | ND | 19.92 | ND | 72.95 | 72.95 |
| | 12/19/2006 | ND | 22.05 | ND | 70.82 | 70.82 |
| | 03/06/2007 | ND | 20.30 | ND | 72.57 | 72.57 |
| | 06/22/2007 | ND | 20.00 | ND | 72.87 | 72.87 |
| | 06/25/2007 | Well Not Gauged | | | | |
| | 09/25/2007 | ND | 20.01 | ND | 72.86 | 72.86 |
| | 12/05/2007 | ND | 19.86 | ND | 73.01 | 73.01 |
| | 03/25/2008 | ND | 20.25 | ND | 72.62 | 72.62 |
| | 06/24/2008 | ND | 20.01 | ND | 72.86 | 72.86 |
| | 09/15/2008 | ND | 20.01 | ND | 72.86 | 72.86 |
| | 12/12/2008 | ND | 19.87 | ND | 73.00 | 73.00 |
| | 02/20/2009 | ND | 20.99 | ND | 71.88 | 71.88 |
| | 05/07/2009 | ND | 19.89 | ND | 72.98 | 72.98 |
| | 09/23/2009 | ND | 19.56 | ND | 73.31 | 73.31 |
| | 12/07/2009 | ND | 20.27 | ND | 72.60 | 72.60 |
| | 03/11/2010 | ND | 20.16 | ND | 72.71 | 72.71 |
| | 05/20/2010 | ND | 19.87 | ND | 73.00 | 73.00 |
| | 09/27/2010 | ND | 19.75 | ND | 73.12 | 73.12 |
| | 12/02/2010 | ND | 20.80 | ND | 72.07 | 72.07 |
| | 02/14/2011 | ND | 21.70 | ND | 71.17 | 71.17 |

***Notes:***
***[Well Depth, Screen Interval] - Feet below ground surface***
***NC - Not Calculated - Top of casing elevation unknown, unable to calculate groundwater elevation***
***ND - Not Detected***
***NM-Not Measurable***
***NA-Not Available***

# *Table 1*
# *Well Gauge Report*
# *Former Shell Service Station #137675*

| *Well Name* | *Date* | *Depth to Product (ft)* | *Depth to Water (ft)* | *Product Thickness (ft)* | *Groundwater Elevation (ft)* | *Corrected GW Elevation (ft)* |
|---|---|---|---|---|---|---|
| **750 BNS [28, 19 - 28]** | | | | | | |
| | 05/16/2011 | ND | 22.65 | ND | 70.22 | 70.22 |
| | 08/08/2011 | ND | 22.74 | ND | 70.13 | 70.13 |
| | 10/31/2011 | ND | 23.82 | ND | 69.05 | 69.05 |
| | 02/01/2012 | ND | 21.15 | ND | 71.72 | 71.72 |
| | 04/30/2012 | ND | 23.99 | ND | 68.88 | 68.88 |
| **MW-02 [24.5, 4.5 - 24.5]** | | | | | | |
| | 01/06/2004 | ND | 4.60 | ND | 94.78 | 94.78 |
| | 04/05/2004 | ND | 4.61 | ND | 94.77 | 94.77 |
| | 07/01/2004 | ND | 6.94 | ND | 92.44 | 92.44 |
| | 08/17/2004 | ND | 7.63 | ND | 91.75 | 91.75 |
| | 09/10/2004 | ND | 10.45 | ND | 88.93 | 88.93 |
| | 10/05/2004 | ND | 10.90 | ND | 88.48 | 88.48 |
| | 01/03/2005 | ND | 10.93 | ND | 88.45 | 88.45 |
| | 04/13/2005 | ND | 8.36 | ND | 91.02 | 91.02 |
| | 08/17/2005 | ND | 10.08 | ND | 89.30 | 89.30 |
| | 11/17/2005 | ND | 10.58 | ND | 88.80 | 88.80 |
| | 03/30/2006 | ND | 10.77 | ND | 88.61 | 88.61 |
| | 06/29/2006 | ND | 9.99 | ND | 89.39 | 89.39 |
| | 09/28/2006 | ND | 12.53 | ND | 86.85 | 86.85 |
| | 12/19/2006 | ND | 12.02 | ND | 87.36 | 87.36 |
| | 03/06/2007 | ND | 11.48 | ND | 87.90 | 87.90 |
| | 06/22/2007 | ND | 11.73 | ND | 87.65 | 87.65 |
| | 09/25/2007 | ND | 14.10 | ND | 85.28 | 85.28 |
| | 12/05/2007 | ND | 15.40 | ND | 83.98 | 83.98 |
| | 03/25/2008 | ND | 13.32 | ND | 86.06 | 86.06 |
| | 06/24/2008 | ND | 11.60 | ND | 87.78 | 87.78 |
| | 09/15/2008 | ND | 13.90 | ND | 85.48 | 85.48 |
| | 12/12/2008 | ND | 14.80 | ND | 84.58 | 84.58 |
| | 02/20/2009 | ND | 14.15 | ND | 85.23 | 85.23 |
| | 05/07/2009 | ND | 12.18 | ND | 87.20 | 87.20 |
| | 09/23/2009 | ND | 12.62 | ND | 86.76 | 86.76 |
| | 12/07/2009 | ND | 11.58 | ND | 87.80 | 87.80 |
| | 03/11/2010 | ND | 8.12 | ND | 91.26 | 91.26 |
| | 05/17/2010 | ND | 8.85 | ND | 90.53 | 90.53 |
| | 09/27/2010 | ND | 12.08 | ND | 87.30 | 87.30 |
| | 12/02/2010 | ND | 12.12 | ND | 87.26 | 87.26 |
| | 01/11/2011 | ND | 12.59 | ND | 86.79 | 86.79 |
| | 02/18/2011 | ND | 12.05 | ND | 87.33 | 87.33 |
| | 05/16/2011 | ND | 10.55 | ND | 88.83 | 88.83 |
| | 08/08/2011 | ND | 12.83 | ND | 86.55 | 86.55 |

***Notes:***
***[Well Depth, Screen Interval] - Feet below ground surface***
***NC - Not Calculated - Top of casing elevation unknown, unable to calculate groundwater elevation***
***ND - Not Detected***
***NM-Not Measurable***
***NA-Not Available***

# *Table 1*
# *Well Gauge Report*
# *Former Shell Service Station #137675*

| *Well Name* | *Date* | *Depth to Product (ft)* | *Depth to Water (ft)* | *Product Thickness (ft)* | *Groundwater Elevation (ft)* | *Corrected GW Elevation (ft)* |
|---|---|---|---|---|---|---|
| **MW-02 [24.5, 4.5 - 24.5]** | | | | | | |
| | 10/31/2011 | ND | 11.90 | ND | 87.48 | 87.48 |
| | 02/01/2012 | ND | 11.41 | ND | 87.97 | 87.97 |
| | 04/30/2012 | ND | 10.35 | ND | 89.03 | 89.03 |
| **MW-04 [23, 3 - 23]** | | | | | | |
| | 01/06/2004 | ND | 3.52 | ND | 94.00 | 94.00 |
| | 04/05/2004 | ND | 3.77 | ND | 93.75 | 93.75 |
| | 07/01/2004 | ND | 5.22 | ND | 92.30 | 92.30 |
| | 08/17/2004 | ND | 9.43 | ND | 88.09 | 88.09 |
| | 09/10/2004 | ND | 8.68 | ND | 88.84 | 88.84 |
| | 10/05/2004 | ND | 9.04 | ND | 88.48 | 88.48 |
| | 01/03/2005 | ND | 9.21 | ND | 88.31 | 88.31 |
| | 04/13/2005 | ND | 7.56 | ND | 89.96 | 89.96 |
| | 08/17/2005 | ND | 7.73 | ND | 89.79 | 89.79 |
| | 11/17/2005 | ND | 8.82 | ND | 88.70 | 88.70 |
| | 03/30/2006 | ND | 9.29 | ND | 88.23 | 88.23 |
| | 06/29/2006 | ND | 8.12 | ND | 89.40 | 89.40 |
| | 09/28/2006 | ND | 10.69 | ND | 86.83 | 86.83 |
| | 12/19/2006 | ND | 10.54 | ND | 86.98 | 86.98 |
| | 03/06/2007 | ND | 9.80 | ND | 87.72 | 87.72 |
| | 06/22/2007 | ND | 10.25 | ND | 87.27 | 87.27 |
| | 09/25/2007 | ND | 12.02 | ND | 85.50 | 85.50 |
| | 12/05/2007 | ND | 13.30 | ND | 84.22 | 84.22 |
| | 03/25/2008 | ND | 11.96 | ND | 85.56 | 85.56 |
| | 06/24/2008 | ND | 9.95 | ND | 87.57 | 87.57 |
| | 09/15/2008 | ND | 11.95 | ND | 85.57 | 85.57 |
| | 12/12/2008 | ND | 12.71 | ND | 84.81 | 84.81 |
| | 02/20/2009 | ND | 12.46 | ND | 85.06 | 85.06 |
| | 05/07/2009 | ND | 10.61 | ND | 86.91 | 86.91 |
| | 09/23/2009 | ND | 10.78 | ND | 86.74 | 86.74 |
| | 12/07/2009 | ND | 9.80 | ND | 87.72 | 87.72 |
| | 03/11/2010 | ND | 7.20 | ND | 90.32 | 90.32 |
| | 05/17/2010 | ND | 7.63 | ND | 89.89 | 89.89 |
| | 09/27/2010 | ND | 10.35 | ND | 87.17 | 87.17 |
| | 12/02/2010 | ND | 10.30 | ND | 87.22 | 87.22 |
| | 02/18/2011 | ND | 10.46 | ND | 87.06 | 87.06 |
| | 05/16/2011 | ND | 9.08 | ND | 88.44 | 88.44 |
| | 08/08/2011 | ND | 11.16 | ND | 86.36 | 86.36 |
| | 10/31/2011 | ND | 10.29 | ND | 87.23 | 87.23 |
| | 02/01/2012 | ND | 9.80 | ND | 87.72 | 87.72 |
| | 04/30/2012 | ND | 8.46 | ND | 89.06 | 89.06 |

***Notes:***
***[Well Depth, Screen Interval] - Feet below ground surface***
***NC - Not Calculated - Top of casing elevation unknown, unable to calculate groundwater elevation***
***ND - Not Detected***
***NM-Not Measurable***
***NA-Not Available***

# *Table 1*
# *Well Gauge Report*
# *Former Shell Service Station #137675*

| *Well Name* | *Date* | *Depth to Product (ft)* | *Depth to Water (ft)* | *Product Thickness (ft)* | *Groundwater Elevation (ft)* | *Corrected GW Elevation (ft)* |
|---|---|---|---|---|---|---|
| **MW-04 [23, 3 - 23]** | | | | | | |
| **MW-05D [57, 52 - 57]** | | | | | | |
| | 04/05/2004 | ND | 8.81 | ND | 89.99 | 89.99 |
| | 07/01/2004 | ND | 10.67 | ND | 88.13 | 88.13 |
| | 08/17/2004 | ND | 11.28 | ND | 87.52 | 87.52 |
| | 09/10/2004 | ND | 12.29 | ND | 86.51 | 86.51 |
| | 10/04/2004 | ND | 12.94 | ND | 85.86 | 85.86 |
| | 01/03/2005 | ND | 13.10 | ND | 85.70 | 85.70 |
| | 04/13/2005 | ND | 10.32 | ND | 88.48 | 88.48 |
| | 08/17/2005 | ND | 12.42 | ND | 86.38 | 86.38 |
| | 11/17/2005 | ND | 14.31 | ND | 84.49 | 84.49 |
| | 03/30/2006 | ND | 13.64 | ND | 85.16 | 85.16 |
| | 06/29/2006 | ND | 13.03 | ND | 85.77 | 85.77 |
| | 09/28/2006 | ND | 15.48 | ND | 83.32 | 83.32 |
| | 12/19/2006 | ND | 14.25 | ND | 84.55 | 84.55 |
| | 03/06/2007 | ND | 13.71 | ND | 85.09 | 85.09 |
| | 06/22/2007 | ND | 14.23 | ND | 84.57 | 84.57 |
| | 09/25/2007 | ND | 17.71 | ND | 81.09 | 81.09 |
| | 12/05/2007 | ND | 19.49 | ND | 79.31 | 79.31 |
| | 03/25/2008 | ND | 15.47 | ND | 83.33 | 83.33 |
| | 06/24/2008 | ND | 15.27 | ND | 83.53 | 83.53 |
| | 09/15/2008 | ND | 16.44 | ND | 82.36 | 82.36 |
| | 12/12/2008 | ND | 17.45 | ND | 81.35 | 81.35 |
| | 02/20/2009 | ND | 16.31 | ND | 82.49 | 82.49 |
| | 05/07/2009 | ND | 14.65 | ND | 84.15 | 84.15 |
| | 09/23/2009 | ND | 15.24 | ND | 83.56 | 83.56 |
| | 12/07/2009 | ND | 14.23 | ND | 84.57 | 84.57 |
| | 03/11/2010 | ND | 10.50 | ND | 88.30 | 88.30 |
| | 05/17/2010 | ND | 11.24 | ND | 87.56 | 87.56 |
| | 09/27/2010 | ND | 14.94 | ND | 83.86 | 83.86 |
| | 12/02/2010 | ND | 15.10 | ND | 83.70 | 83.70 |
| | 02/14/2011 | ND | 15.05 | ND | 83.75 | 83.75 |
| | 05/16/2011 | ND | 12.83 | ND | 85.97 | 85.97 |
| | 08/08/2011 | ND | 15.84 | ND | 82.96 | 82.96 |
| | 10/31/2011 | ND | 14.75 | ND | 84.05 | 84.05 |
| | 02/01/2012 | ND | 13.91 | ND | 84.89 | 84.89 |
| | 04/30/2012 | ND | 14.08 | ND | 84.72 | 84.72 |
| **MW-05R [103, 70 - 80]** | | | | | | |
| | 07/08/2004 | ND | 11.79 | ND | 89.96 | 89.96 |
| | 08/17/2004 | ND | 12.27 | ND | 89.48 | 89.48 |

***Notes:***
***[Well Depth, Screen Interval] - Feet below ground surface***
***NC - Not Calculated - Top of casing elevation unknown, unable to calculate groundwater elevation***
***ND - Not Detected***
***NM-Not Measurable***
***NA-Not Available***

# *Table 1*
# *Well Gauge Report*
# *Former Shell Service Station #137675*

| *Well Name* | *Date* | *Depth to Product (ft)* | *Depth to Water (ft)* | *Product Thickness (ft)* | *Groundwater Elevation (ft)* | *Corrected GW Elevation (ft)* |
|---|---|---|---|---|---|---|
| **MW-05R [103, 70 - 80]** | | | | | | |
| | 09/10/2004 | ND | 13.13 | ND | 88.62 | 88.62 |
| | 10/04/2004 | ND | 13.77 | ND | 87.98 | 87.98 |
| | 01/03/2005 | ND | 13.97 | ND | 87.78 | 87.78 |
| | 04/13/2005 | ND | 11.17 | ND | 90.58 | 90.58 |
| | 08/17/2005 | ND | 13.29 | ND | 88.46 | 88.46 |
| | 11/17/2005 | ND | 13.43 | ND | 88.32 | 88.32 |
| | 03/30/2006 | ND | 13.23 | ND | 88.52 | 88.52 |
| | 06/29/2006 | ND | 13.86 | ND | 87.89 | 87.89 |
| | 09/28/2006 | ND | 16.35 | ND | 85.40 | 85.40 |
| | 12/19/2006 | ND | 15.07 | ND | 86.68 | 86.68 |
| | 03/06/2007 | ND | 14.43 | ND | 87.32 | 87.32 |
| | 06/22/2007 | ND | 14.96 | ND | 86.79 | 86.79 |
| | 09/25/2007 | ND | 17.21 | ND | 84.54 | 84.54 |
| | 12/05/2007 | ND | 18.95 | ND | 82.80 | 82.80 |
| | 03/25/2008 | ND | 16.32 | ND | 85.43 | 85.43 |
| | 06/24/2008 | ND | 14.08 | ND | 87.67 | 87.67 |
| | 09/15/2008 | ND | 17.29 | ND | 84.46 | 84.46 |
| | 12/12/2008 | ND | 18.31 | ND | 83.44 | 83.44 |
| | 02/20/2009 | ND | 17.19 | ND | 84.56 | 84.56 |
| | 05/07/2009 | ND | 15.08 | ND | 86.67 | 86.67 |
| | 09/23/2009 | ND | 17.34 | ND | 84.41 | 84.41 |
| | 12/07/2009 | ND | 14.96 | ND | 86.79 | 86.79 |
| | 03/11/2010 | ND | 11.31 | ND | 90.44 | 90.44 |
| | 05/17/2010 | ND | 12.02 | ND | 89.73 | 89.73 |
| | 09/27/2010 | ND | 15.76 | ND | 85.99 | 85.99 |
| | 12/02/2010 | ND | 15.92 | ND | 85.83 | 85.83 |
| | 02/14/2011 | ND | 15.80 | ND | 85.95 | 85.95 |
| | 05/16/2011 | ND | 13.60 | ND | 88.15 | 88.15 |
| | 08/08/2011 | ND | 16.68 | ND | 85.07 | 85.07 |
| | 10/31/2011 | ND | 15.59 | ND | 86.16 | 86.16 |
| | 02/01/2012 | ND | 14.70 | ND | 87.05 | 87.05 |
| | 04/30/2012 | ND | 14.90 | ND | 86.85 | 86.85 |
| **MW-05S [23, 3 - 23]** | | | | | | |
| | 01/06/2004 | ND | 9.22 | ND | 89.98 | 89.98 |
| | 04/05/2004 | ND | 9.72 | ND | 89.48 | 89.48 |
| | 07/01/2004 | ND | 11.41 | ND | 87.79 | 87.79 |
| | 08/17/2004 | ND | 11.95 | ND | 87.25 | 87.25 |
| | 09/10/2004 | ND | 12.92 | ND | 86.28 | 86.28 |
| | 10/04/2004 | ND | 13.53 | ND | 85.67 | 85.67 |
| | 01/03/2005 | ND | 13.73 | ND | 85.47 | 85.47 |

***Notes:***
***[Well Depth, Screen Interval] - Feet below ground surface***
***NC - Not Calculated - Top of casing elevation unknown, unable to calculate groundwater elevation***
***ND - Not Detected***
***NM-Not Measurable***
***NA-Not Available***

# *Table 1*
# *Well Gauge Report*
# *Former Shell Service Station #137675*

| *Well Name* | *Date* | *Depth to Product (ft)* | *Depth to Water (ft)* | *Product Thickness (ft)* | *Groundwater Elevation (ft)* | *Corrected GW Elevation (ft)* |
|---|---|---|---|---|---|---|
| **MW-05S [23, 3 - 23]** | | | | | | |
| | 04/13/2005 | ND | 11.07 | ND | 88.13 | 88.13 |
| | 08/17/2005 | ND | 13.05 | ND | 86.15 | 86.15 |
| | 11/17/2005 | ND | 14.10 | ND | 85.10 | 85.10 |
| | 03/30/2006 | ND | 12.62 | ND | 86.58 | 86.58 |
| | 06/29/2006 | ND | 13.64 | ND | 85.56 | 85.56 |
| | 09/28/2006 | ND | 15.95 | ND | 83.25 | 83.25 |
| | 12/19/2006 | ND | 14.80 | ND | 84.40 | 84.40 |
| | 03/06/2007 | ND | 14.05 | ND | 85.15 | 85.15 |
| | 06/22/2007 | ND | 14.50 | ND | 84.70 | 84.70 |
| | 09/25/2007 | ND | 16.80 | ND | 82.40 | 82.40 |
| | 12/05/2007 | ND | 18.52 | ND | 80.68 | 80.68 |
| | 03/25/2008 | ND | 15.95 | ND | 83.25 | 83.25 |
| | 06/24/2008 | ND | 13.80 | ND | 85.40 | 85.40 |
| | 09/15/2008 | ND | 16.90 | ND | 82.30 | 82.30 |
| | 12/12/2008 | ND | 17.95 | ND | 81.25 | 81.25 |
| | 02/20/2009 | ND | 16.82 | ND | 82.38 | 82.38 |
| | 05/07/2009 | ND | 14.92 | ND | 84.28 | 84.28 |
| | 09/23/2009 | ND | 15.71 | ND | 83.49 | 83.49 |
| | 12/07/2009 | ND | 14.49 | ND | 84.71 | 84.71 |
| | 03/11/2010 | ND | 10.98 | ND | 88.22 | 88.22 |
| | 05/17/2010 | ND | 11.83 | ND | 87.37 | 87.37 |
| | 09/27/2010 | ND | 15.39 | ND | 83.81 | 83.81 |
| | 12/02/2010 | ND | 15.30 | ND | 83.90 | 83.90 |
| | 02/14/2011 | ND | 15.53 | ND | 83.67 | 83.67 |
| | 05/16/2011 | ND | 13.48 | ND | 85.72 | 85.72 |
| | 08/08/2011 | ND | 16.38 | ND | 82.82 | 82.82 |
| | 10/31/2011 | ND | 15.25 | ND | 83.95 | 83.95 |
| | 02/01/2012 | ND | 14.51 | ND | 84.69 | 84.69 |
| | 04/30/2012 | ND | 14.77 | ND | 84.43 | 84.43 |
| **MW-06D [55, 50 - 55]** | | | | | | |
| | 04/05/2004 | ND | 15.18 | ND | 83.91 | 83.91 |
| | 07/01/2004 | ND | 15.86 | ND | 83.23 | 83.23 |
| | 08/17/2004 | ND | 16.35 | ND | 82.74 | 82.74 |
| | 09/10/2004 | ND | 17.20 | ND | 81.89 | 81.89 |
| | 10/04/2004 | ND | 17.77 | ND | 81.32 | 81.32 |
| | 01/03/2005 | ND | 17.83 | ND | 81.26 | 81.26 |
| | 04/13/2005 | ND | 14.91 | ND | 84.18 | 84.18 |
| | 08/17/2005 | ND | 18.37 | ND | 80.72 | 80.72 |
| | 11/17/2005 | ND | 18.30 | ND | 80.79 | 80.79 |
| | 03/30/2006 | ND | 16.83 | ND | 82.26 | 82.26 |

***Notes:***
***[Well Depth, Screen Interval] - Feet below ground surface***
***NC - Not Calculated - Top of casing elevation unknown, unable to calculate groundwater elevation***
***ND - Not Detected***
***NM-Not Measurable***
***NA-Not Available***

# *Table 1*
# *Well Gauge Report*
# *Former Shell Service Station #137675*

| *Well Name* | *Date* | *Depth to Product (ft)* | *Depth to Water (ft)* | *Product Thickness (ft)* | *Groundwater Elevation (ft)* | *Corrected GW Elevation (ft)* |
|---|---|---|---|---|---|---|
| **MW-06D [55, 50 - 55]** | | | | | | |
| | 06/29/2006 | ND | 17.96 | ND | 81.13 | 81.13 |
| | 09/28/2006 | ND | 20.10 | ND | 78.99 | 78.99 |
| | 12/19/2006 | ND | 18.71 | ND | 80.38 | 80.38 |
| | 02/02/2007 | ND | 17.88 | ND | 81.21 | 81.21 |
| | 03/06/2007 | ND | 17.87 | ND | 81.22 | 81.22 |
| | 06/22/2007 | ND | 18.17 | ND | 80.92 | 80.92 |
| | 09/25/2007 | ND | 22.84 | ND | 76.25 | 76.25 |
| | 12/05/2007 | ND | 22.32 | ND | 76.77 | 76.77 |
| | 03/25/2008 | ND | 19.57 | ND | 79.52 | 79.52 |
| | 06/24/2008 | ND | 17.35 | ND | 81.74 | 81.74 |
| | 09/15/2008 | ND | 20.83 | ND | 78.26 | 78.26 |
| | 12/12/2008 | ND | 21.71 | ND | 77.38 | 77.38 |
| | 02/20/2009 | ND | 20.52 | ND | 78.57 | 78.57 |
| | 05/07/2009 | ND | 18.51 | ND | 80.58 | 80.58 |
| | 09/23/2009 | ND | 19.59 | ND | 79.50 | 79.50 |
| | 12/07/2009 | ND | 18.72 | ND | 80.37 | 80.37 |
| | 03/11/2010 | ND | 15.06 | ND | 84.03 | 84.03 |
| | 05/17/2010 | ND | 15.56 | ND | 83.53 | 83.53 |
| | 09/27/2010 | ND | 19.99 | ND | 79.10 | 79.10 |
| | 12/02/2010 | ND | 19.87 | ND | 79.22 | 79.22 |
| | 02/14/2011 | ND | 23.90 | ND | 75.19 | 75.19 |
| | 05/16/2011 | ND | 18.79 | ND | 80.30 | 80.30 |
| | 08/08/2011 | ND | 24.95 | ND | 74.14 | 74.14 |
| | 10/31/2011 | ND | 21.30 | ND | 77.79 | 77.79 |
| | 02/01/2012 | ND | 23.54 | ND | 75.55 | 75.55 |
| | 04/30/2012 | ND | 24.19 | ND | 74.90 | 74.90 |
| **MW-06R [103, 70 - 80]** | | | | | | |
| | 07/08/2004 | ND | 12.77 | ND | 89.44 | 89.44 |
| | 08/17/2004 | ND | 17.15 | ND | 85.06 | 85.06 |
| | 09/10/2004 | ND | 17.87 | ND | 84.34 | 84.34 |
| | 10/04/2004 | ND | 18.52 | ND | 83.69 | 83.69 |
| | 01/03/2005 | ND | 18.66 | ND | 83.55 | 83.55 |
| | 04/13/2005 | ND | 15.85 | ND | 86.36 | 86.36 |
| | 08/17/2005 | ND | 17.97 | ND | 84.24 | 84.24 |
| | 03/30/2006 | ND | 17.54 | ND | 84.67 | 84.67 |
| | 06/29/2006 | ND | 18.84 | ND | 83.37 | 83.37 |
| | 09/28/2006 | ND | 20.80 | ND | 81.41 | 81.41 |
| | 12/19/2006 | ND | 19.45 | ND | 82.76 | 82.76 |
| | 03/06/2007 | ND | 18.65 | ND | 83.56 | 83.56 |
| | 06/22/2007 | ND | 19.17 | ND | 83.04 | 83.04 |

***Notes:***
***[Well Depth, Screen Interval] - Feet below ground surface***
***NC - Not Calculated - Top of casing elevation unknown, unable to calculate groundwater elevation***
***ND - Not Detected***
***NM-Not Measurable***
***NA-Not Available***

# *Table 1*
# *Well Gauge Report*
# *Former Shell Service Station #137675*

| *Well Name* | *Date* | *Depth to Product (ft)* | *Depth to Water (ft)* | *Product Thickness (ft)* | *Groundwater Elevation (ft)* | *Corrected GW Elevation (ft)* |
|---|---|---|---|---|---|---|
| **MW-06R [103, 70 - 80]** | | | | | | |
| | 09/25/2007 | ND | 22.21 | ND | 80.00 | 80.00 |
| | 12/05/2007 | ND | 23.22 | ND | 78.99 | 78.99 |
| | 03/25/2008 | ND | 20.68 | ND | 81.53 | 81.53 |
| | 06/24/2008 | ND | 18.15 | ND | 84.06 | 84.06 |
| | 09/15/2008 | ND | 21.61 | ND | 80.60 | 80.60 |
| | 12/12/2008 | ND | 22.64 | ND | 79.57 | 79.57 |
| | 02/20/2009 | ND | 21.41 | ND | 80.80 | 80.80 |
| | 05/07/2009 | ND | 19.58 | ND | 82.63 | 82.63 |
| | 09/23/2009 | ND | 20.34 | ND | 81.87 | 81.87 |
| | 12/07/2009 | ND | 19.57 | ND | 82.64 | 82.64 |
| | 03/11/2010 | ND | 15.51 | ND | 86.70 | 86.70 |
| | 05/17/2010 | ND | 16.06 | ND | 86.15 | 86.15 |
| | 09/27/2010 | ND | 20.68 | ND | 81.53 | 81.53 |
| | 12/02/2010 | ND | 20.70 | ND | 81.51 | 81.51 |
| | 02/14/2011 | ND | 23.25 | ND | 78.96 | 78.96 |
| | 05/16/2011 | ND | 19.74 | ND | 82.47 | 82.47 |
| | 08/08/2011 | ND | 24.09 | ND | 78.12 | 78.12 |
| | 10/31/2011 | ND | 21.90 | ND | 80.31 | 80.31 |
| | 02/01/2012 | ND | 22.47 | ND | 79.74 | 79.74 |
| | 04/30/2012 | ND | 23.12 | ND | 79.09 | 79.09 |
| **MW-06S [23, 3 - 23]** | | | | | | |
| | 01/06/2004 | ND | 14.10 | ND | 84.31 | 84.31 |
| | 04/05/2004 | ND | 14.93 | ND | 83.48 | 83.48 |
| | 07/01/2004 | ND | 16.85 | ND | 81.56 | 81.56 |
| | 08/17/2004 | ND | 17.57 | ND | 80.84 | 80.84 |
| | 09/10/2004 | ND | 18.29 | ND | 80.12 | 80.12 |
| | 10/04/2004 | ND | 18.86 | ND | 79.55 | 79.55 |
| | 01/03/2005 | ND | 18.83 | ND | 79.58 | 79.58 |
| | 04/13/2005 | ND | 15.51 | ND | 82.90 | 82.90 |
| | 08/17/2005 | ND | 17.32 | ND | 81.09 | 81.09 |
| | 11/17/2005 | ND | 19.37 | ND | 79.04 | 79.04 |
| | 03/30/2006 | ND | 17.55 | ND | 80.86 | 80.86 |
| | 06/29/2006 | ND | 18.91 | ND | 79.50 | 79.50 |
| | 09/28/2006 | ND | 21.14 | ND | 77.27 | 77.27 |
| | 12/19/2006 | ND | 19.48 | ND | 78.93 | 78.93 |
| | 03/06/2007 | ND | 18.65 | ND | 79.76 | 79.76 |
| | 06/22/2007 | ND | 18.95 | ND | 79.46 | 79.46 |
| | 09/25/2007 | ND | 22.50 | ND | 75.91 | 75.91 |
| | 12/05/2007 | ND | 22.72 | ND | 75.69 | 75.69 |
| | 03/25/2008 | ND | 20.43 | ND | 77.98 | 77.98 |

***Notes:***
***[Well Depth, Screen Interval] - Feet below ground surface***
***NC - Not Calculated - Top of casing elevation unknown, unable to calculate groundwater elevation***
***ND - Not Detected***
***NM-Not Measurable***
***NA-Not Available***

# *Table 1*
# *Well Gauge Report*
# *Former Shell Service Station #137675*

| *Well Name* | *Date* | *Depth to Product (ft)* | *Depth to Water (ft)* | *Product Thickness (ft)* | *Groundwater Elevation (ft)* | *Corrected GW Elevation (ft)* |
|---|---|---|---|---|---|---|
| **MW-06S [23, 3 - 23]** | | | | | | |
| | 06/24/2008 | ND | 17.95 | ND | 80.46 | 80.46 |
| | 09/15/2008 | ND | 21.78 | ND | 76.63 | 76.63 |
| | 12/12/2008 | ND | 22.69 | ND | 75.72 | 75.72 |
| | 05/07/2009 | ND | 19.25 | ND | 79.16 | 79.16 |
| | 09/23/2009 | ND | 20.51 | ND | 77.90 | 77.90 |
| | 12/07/2009 | ND | 19.58 | ND | 78.83 | 78.83 |
| | 03/11/2010 | ND | 15.33 | ND | 83.08 | 83.08 |
| | 05/17/2010 | ND | 16.11 | ND | 82.30 | 82.30 |
| | 09/27/2010 | ND | 20.82 | ND | 77.59 | 77.59 |
| | 12/02/2010 | ND | 20.68 | ND | 77.73 | 77.73 |
| | 02/14/2011 | ND | 22.70 | ND | 75.71 | 75.71 |
| | 05/16/2011 | ND | 19.45 | ND | 78.96 | 78.96 |
| | 08/08/2011 | ND | 22.40 | ND | 76.01 | 76.01 |
| | 10/31/2011 | ND | 22.64 | ND | 75.77 | 75.77 |
| | 02/01/2012 | ND | 22.16 | ND | 76.25 | 76.25 |
| | 04/30/2012 | ND | 22.69 | ND | 75.72 | 75.72 |
| **MW-07D [68, 63 - 68]** | | | | | | |
| | 04/05/2004 | ND | 13.65 | ND | 87.89 | 87.89 |
| | 07/01/2004 | ND | 15.21 | ND | 86.33 | 86.33 |
| | 08/17/2004 | ND | 15.61 | ND | 85.93 | 85.93 |
| | 09/10/2004 | ND | 15.64 | ND | 85.90 | 85.90 |
| | 10/04/2004 | ND | 17.32 | ND | 84.22 | 84.22 |
| | 01/03/2005 | ND | 17.40 | ND | 84.14 | 84.14 |
| | 04/13/2005 | ND | 14.39 | ND | 87.15 | 87.15 |
| | 08/17/2005 | ND | 16.92 | ND | 84.62 | 84.62 |
| | 11/17/2005 | ND | 17.92 | ND | 83.62 | 83.62 |
| | 03/30/2006 | ND | 16.78 | ND | 84.76 | 84.76 |
| | 06/29/2006 | ND | 17.65 | ND | 83.89 | 83.89 |
| | 09/28/2006 | ND | 20.22 | ND | 81.32 | 81.32 |
| | 12/19/2006 | ND | 18.59 | ND | 82.95 | 82.95 |
| | 03/06/2007 | ND | 17.82 | ND | 83.72 | 83.72 |
| | 06/22/2007 | ND | 18.50 | ND | 83.04 | 83.04 |
| | 09/25/2007 | ND | 21.63 | ND | 79.91 | 79.91 |
| | 12/05/2007 | ND | 22.86 | ND | 78.68 | 78.68 |
| | 03/25/2008 | ND | 19.89 | ND | 81.65 | 81.65 |
| | 06/24/2008 | ND | 17.48 | ND | 84.06 | 84.06 |
| | 09/15/2008 | ND | 21.11 | ND | 80.43 | 80.43 |
| | 12/12/2008 | ND | 22.19 | ND | 79.35 | 79.35 |
| | 02/20/2009 | ND | 20.74 | ND | 80.80 | 80.80 |
| | 05/07/2009 | ND | 18.83 | ND | 82.71 | 82.71 |

***Notes:***
***[Well Depth, Screen Interval] - Feet below ground surface***
***NC - Not Calculated - Top of casing elevation unknown, unable to calculate groundwater elevation***
***ND - Not Detected***
***NM-Not Measurable***
***NA-Not Available***

# *Table 1*
# *Well Gauge Report*
# *Former Shell Service Station #137675*

| *Well Name* | *Date* | *Depth to Product (ft)* | *Depth to Water (ft)* | *Product Thickness (ft)* | *Groundwater Elevation (ft)* | *Corrected GW Elevation (ft)* |
|---|---|---|---|---|---|---|
| **MW-07D [68, 63 - 68]** | | | | | | |
| | 09/23/2009 | ND | 20.15 | ND | 81.39 | 81.39 |
| | 12/07/2009 | ND | 18.67 | ND | 82.87 | 82.87 |
| | 03/11/2010 | ND | 14.76 | ND | 86.78 | 86.78 |
| | 09/27/2010 | ND | 19.64 | ND | 81.90 | 81.90 |
| | 12/02/2010 | ND | 19.53 | ND | 82.01 | 82.01 |
| | 02/14/2011 | ND | 19.61 | ND | 81.93 | 81.93 |
| | 05/16/2011 | ND | 13.96 | ND | 87.58 | 87.58 |
| | 08/08/2011 | ND | 20.45 | ND | 81.09 | 81.09 |
| | 10/31/2011 | ND | 19.28 | ND | 82.26 | 82.26 |
| | 02/01/2012 | ND | 18.03 | ND | 83.51 | 83.51 |
| | 04/30/2012 | ND | 18.51 | ND | 83.03 | 83.03 |
| **MW-07S [29, 4 - 29]** | | | | | | |
| | 04/05/2004 | ND | 14.35 | ND | 87.72 | 87.72 |
| | 07/01/2004 | ND | 15.80 | ND | 86.27 | 86.27 |
| | 08/17/2004 | ND | 16.20 | ND | 85.87 | 85.87 |
| | 09/10/2004 | ND | 17.10 | ND | 84.97 | 84.97 |
| | 10/04/2004 | ND | 17.85 | ND | 84.22 | 84.22 |
| | 01/03/2005 | ND | 18.00 | ND | 84.07 | 84.07 |
| | 04/13/2005 | ND | 14.82 | ND | 87.25 | 87.25 |
| | 08/17/2005 | ND | 17.36 | ND | 84.71 | 84.71 |
| | 11/17/2005 | ND | 18.34 | ND | 83.73 | 83.73 |
| | 03/30/2006 | ND | 17.35 | ND | 84.72 | 84.72 |
| | 06/29/2006 | ND | 18.61 | ND | 83.46 | 83.46 |
| | 09/28/2006 | ND | 20.70 | ND | 81.37 | 81.37 |
| | 12/19/2006 | ND | 19.03 | ND | 83.04 | 83.04 |
| | 03/06/2007 | ND | 18.61 | ND | 83.46 | 83.46 |
| | 06/22/2007 | ND | 18.98 | ND | 83.09 | 83.09 |
| | 09/25/2007 | ND | 23.05 | ND | 79.02 | 79.02 |
| | 12/05/2007 | ND | 23.51 | ND | 78.56 | 78.56 |
| | 03/25/2008 | ND | 20.52 | ND | 81.55 | 81.55 |
| | 06/24/2008 | ND | 19.00 | ND | 83.07 | 83.07 |
| | 09/15/2008 | ND | 21.61 | ND | 80.46 | 80.46 |
| | 12/12/2008 | ND | 23.11 | ND | 78.96 | 78.96 |
| | 02/20/2009 | ND | 21.52 | ND | 80.55 | 80.55 |
| | 05/07/2009 | ND | 19.65 | ND | 82.42 | 82.42 |
| | 09/23/2009 | ND | 20.32 | ND | 81.75 | 81.75 |
| | 12/07/2009 | ND | 19.57 | ND | 82.50 | 82.50 |
| | 03/11/2010 | ND | 15.09 | ND | 86.98 | 86.98 |
| | 09/27/2010 | ND | 20.18 | ND | 81.89 | 81.89 |
| | 12/02/2010 | ND | 20.18 | ND | 81.89 | 81.89 |

***Notes:***
***[Well Depth, Screen Interval] - Feet below ground surface***
***NC - Not Calculated - Top of casing elevation unknown, unable to calculate groundwater elevation***
***ND - Not Detected***
***NM-Not Measurable***
***NA-Not Available***

# *Table 1*
# *Well Gauge Report*
# *Former Shell Service Station #137675*

| *Well Name* | *Date* | *Depth to Product (ft)* | *Depth to Water (ft)* | *Product Thickness (ft)* | *Groundwater Elevation (ft)* | *Corrected GW Elevation (ft)* |
|---|---|---|---|---|---|---|
| **MW-07S [29, 4 - 29]** | | | | | | |
| | 02/14/2011 | ND | 20.50 | ND | 81.57 | 81.57 |
| | 05/16/2011 | ND | 14.58 | ND | 87.49 | 87.49 |
| | 08/08/2011 | ND | 21.03 | ND | 81.04 | 81.04 |
| | 10/31/2011 | ND | 19.97 | ND | 82.10 | 82.10 |
| | 02/01/2012 | ND | 18.79 | ND | 83.28 | 83.28 |
| | 04/30/2012 | ND | 19.36 | ND | 82.71 | 82.71 |
| **MW-08D [50, 50 - 55]** | | | | | | |
| | 04/05/2004 | ND | 12.59 | ND | 80.87 | 80.87 |
| | 07/01/2004 | ND | 14.75 | ND | 78.71 | 78.71 |
| | 08/17/2004 | ND | 15.34 | ND | 78.12 | 78.12 |
| | 09/10/2004 | ND | 16.25 | ND | 77.21 | 77.21 |
| | 10/04/2004 | ND | 16.80 | ND | 76.66 | 76.66 |
| | 01/03/2005 | ND | 16.73 | ND | 76.73 | 76.73 |
| | 04/13/2005 | ND | 13.30 | ND | 80.16 | 80.16 |
| | 08/17/2005 | ND | 16.27 | ND | 77.19 | 77.19 |
| | 11/17/2005 | ND | 17.55 | ND | 75.91 | 75.91 |
| | 03/30/2006 | ND | 15.26 | ND | 78.20 | 78.20 |
| | 06/29/2006 | ND | 16.54 | ND | 76.92 | 76.92 |
| | 09/28/2006 | ND | 19.20 | ND | 74.26 | 74.26 |
| | 12/19/2006 | ND | 17.92 | ND | 75.54 | 75.54 |
| | 03/06/2007 | ND | 16.41 | ND | 77.05 | 77.05 |
| | 06/22/2007 | ND | 16.50 | ND | 76.96 | 76.96 |
| | 09/25/2007 | ND | 20.52 | ND | 72.94 | 72.94 |
| | 12/05/2007 | ND | 21.23 | ND | 72.23 | 72.23 |
| | 03/25/2008 | ND | 18.50 | ND | 74.96 | 74.96 |
| | 06/24/2008 | ND | 15.83 | ND | 77.63 | 77.63 |
| | 09/15/2008 | ND | 19.76 | ND | 73.70 | 73.70 |
| | 12/12/2008 | ND | 20.45 | ND | 73.01 | 73.01 |
| | 02/20/2009 | ND | 19.38 | ND | 74.08 | 74.08 |
| | 05/07/2009 | ND | 17.02 | ND | 76.44 | 76.44 |
| | 09/23/2009 | ND | 18.47 | ND | 74.99 | 74.99 |
| | 12/07/2009 | ND | 17.77 | ND | 75.69 | 75.69 |
| | 03/11/2010 | ND | 14.07 | ND | 79.39 | 79.39 |
| | 05/17/2010 | ND | 13.86 | ND | 79.60 | 79.60 |
| | 09/27/2010 | ND | 19.00 | ND | 74.46 | 74.46 |
| | 12/02/2010 | ND | 18.76 | ND | 74.70 | 74.70 |
| | 02/14/2011 | ND | 25.40 | ND | 68.06 | 68.06 |
| | 05/16/2011 | ND | 17.93 | ND | 75.53 | 75.53 |
| | 08/08/2011 | ND | 21.74 | ND | 71.72 | 71.72 |
| | 10/31/2011 | ND | 21.56 | ND | 71.90 | 71.90 |

***Notes:***
***[Well Depth, Screen Interval] - Feet below ground surface***
***NC - Not Calculated - Top of casing elevation unknown, unable to calculate groundwater elevation***
***ND - Not Detected***
***NM-Not Measurable***
***NA-Not Available***

# *Table 1*
# *Well Gauge Report*
# *Former Shell Service Station #137675*

| *Well Name* | *Date* | *Depth to Product (ft)* | *Depth to Water (ft)* | *Product Thickness (ft)* | *Groundwater Elevation (ft)* | *Corrected GW Elevation (ft)* |
|---|---|---|---|---|---|---|
| **MW-08D [50, 50 - 55]** | | | | | | |
| | 02/01/2012 | ND | 19.85 | ND | 73.61 | 73.61 |
| | 04/30/2012 | ND | 20.72 | ND | 72.74 | 72.74 |
| **MW-08S [24, 4 - 20]** | | | | | | |
| | 04/05/2004 | ND | 13.03 | ND | 80.30 | 80.30 |
| | 07/01/2004 | ND | 15.07 | ND | 78.26 | 78.26 |
| | 08/17/2004 | ND | 15.82 | ND | 77.51 | 77.51 |
| | 09/10/2004 | ND | 16.68 | ND | 76.65 | 76.65 |
| | 10/04/2004 | ND | 17.23 | ND | 76.10 | 76.10 |
| | 01/03/2005 | ND | 17.27 | ND | 76.06 | 76.06 |
| | 04/13/2005 | ND | 13.72 | ND | 79.61 | 79.61 |
| | 08/17/2005 | ND | 16.65 | ND | 76.68 | 76.68 |
| | 11/17/2005 | ND | 18.19 | ND | 75.14 | 75.14 |
| | 03/30/2006 | ND | 15.60 | ND | 77.73 | 77.73 |
| | 06/29/2006 | ND | 17.27 | ND | 76.06 | 76.06 |
| | 09/28/2006 | ND | 19.75 | ND | 73.58 | 73.58 |
| | 12/19/2006 | ND | 18.29 | ND | 75.04 | 75.04 |
| | 03/06/2007 | ND | 17.39 | ND | 75.94 | 75.94 |
| | 06/22/2007 | ND | 16.88 | ND | 76.45 | 76.45 |
| | 09/25/2007 | ND | 21.30 | ND | 72.03 | 72.03 |
| | 12/05/2007 | ND | 22.18 | ND | 71.15 | 71.15 |
| | 03/25/2008 | ND | 19.22 | ND | 74.11 | 74.11 |
| | 06/24/2008 | ND | 16.17 | ND | 77.16 | 77.16 |
| | 09/15/2008 | ND | 20.28 | ND | 73.05 | 73.05 |
| | 12/12/2008 | ND | 21.23 | ND | 72.10 | 72.10 |
| | 02/20/2009 | ND | 20.04 | ND | 73.29 | 73.29 |
| | 05/07/2009 | ND | 17.90 | ND | 75.43 | 75.43 |
| | 09/23/2009 | ND | 19.03 | ND | 74.30 | 74.30 |
| | 12/07/2009 | ND | 18.32 | ND | 75.01 | 75.01 |
| | 03/11/2010 | ND | 14.35 | ND | 78.98 | 78.98 |
| | 05/17/2010 | ND | 13.00 | ND | 80.33 | 80.33 |
| | 09/27/2010 | ND | 19.02 | ND | 74.31 | 74.31 |
| | 12/02/2010 | ND | 19.96 | ND | 73.37 | 73.37 |
| | 02/14/2011 | ND | 21.30 | ND | 72.03 | 72.03 |
| | 05/16/2011 | ND | 18.60 | ND | 74.73 | 74.73 |
| | 08/08/2011 | ND | 22.26 | ND | 71.07 | 71.07 |
| | 10/31/2011 | ND | 22.44 | ND | 70.89 | 70.89 |
| | 02/01/2012 | ND | 20.50 | ND | 72.83 | 72.83 |
| | 04/30/2012 | ND | 21.35 | ND | 71.98 | 71.98 |

***Notes:***
***[Well Depth, Screen Interval] - Feet below ground surface***
***NC - Not Calculated - Top of casing elevation unknown, unable to calculate groundwater elevation***
***ND - Not Detected***
***NM-Not Measurable***
***NA-Not Available***

# *Table 1*
# *Well Gauge Report*
# *Former Shell Service Station #137675*

| *Well Name* | *Date* | *Depth to Product (ft)* | *Depth to Water (ft)* | *Product Thickness (ft)* | *Groundwater Elevation (ft)* | *Corrected GW Elevation (ft)* |
|---|---|---|---|---|---|---|
| **MW-09D [30, 28 - 30]** | | | | | | |
| | 04/05/2004 | ND | 3.88 | ND | 88.56 | 88.56 |
| | 07/01/2004 | ND | 4.17 | ND | 88.27 | 88.27 |
| | 08/17/2004 | ND | 4.31 | ND | 88.13 | 88.13 |
| | 10/05/2004 | ND | 5.59 | ND | 86.85 | 86.85 |
| | 01/03/2005 | ND | 5.58 | ND | 86.86 | 86.86 |
| | 04/13/2005 | ND | 4.32 | ND | 88.12 | 88.12 |
| | 08/17/2005 | ND | 5.09 | ND | 87.35 | 87.35 |
| | 11/17/2005 | ND | 5.77 | ND | 86.67 | 86.67 |
| | 03/30/2006 | ND | 5.70 | ND | 86.74 | 86.74 |
| | 06/29/2006 | ND | 4.78 | ND | 87.66 | 87.66 |
| | 09/28/2006 | ND | 7.10 | ND | 85.34 | 85.34 |
| | 12/19/2006 | ND | 6.69 | ND | 85.75 | 85.75 |
| | 03/06/2007 | ND | 5.85 | ND | 86.59 | 86.59 |
| | 06/22/2007 | ND | 7.35 | ND | 85.09 | 85.09 |
| | 09/25/2007 | ND | 8.80 | ND | 83.64 | 83.64 |
| | 12/05/2007 | ND | 9.50 | ND | 82.94 | 82.94 |
| | 03/25/2008 | ND | 7.37 | ND | 85.07 | 85.07 |
| | 06/24/2008 | ND | 6.29 | ND | 86.15 | 86.15 |
| | 09/15/2008 | ND | 8.10 | ND | 84.34 | 84.34 |
| | 12/12/2008 | ND | 8.15 | ND | 84.29 | 84.29 |
| | 02/20/2009 | ND | 8.39 | ND | 84.05 | 84.05 |
| | 05/07/2009 | ND | 5.01 | ND | 87.43 | 87.43 |
| | 09/23/2009 | ND | 7.28 | ND | 85.16 | 85.16 |
| | 12/07/2009 | ND | 5.77 | ND | 86.67 | 86.67 |
| | 03/11/2010 | ND | 4.30 | ND | 88.14 | 88.14 |
| | 05/17/2010 | ND | 4.85 | ND | 87.59 | 87.59 |
| | 09/27/2010 | ND | 6.71 | ND | 85.73 | 85.73 |
| | 12/02/2010 | ND | 6.35 | ND | 86.09 | 86.09 |
| | 02/14/2011 | ND | 6.58 | ND | 85.86 | 85.86 |
| | 05/16/2011 | ND | 5.62 | ND | 86.82 | 86.82 |
| | 08/08/2011 | ND | 7.69 | ND | 84.75 | 84.75 |
| | 10/31/2011 | ND | 6.24 | ND | 86.20 | 86.20 |
| | 02/01/2012 | ND | 6.19 | ND | 86.25 | 86.25 |
| | 04/30/2012 | ND | 6.02 | ND | 86.42 | 86.42 |
| **MW-09S [20, 5 - 20]** | | | | | | |
| | 04/05/2004 | ND | 3.47 | ND | 88.43 | 88.43 |
| | 07/01/2004 | ND | 4.46 | ND | 87.44 | 87.44 |
| | 08/17/2004 | ND | 4.43 | ND | 87.47 | 87.47 |
| | 10/05/2004 | ND | 5.57 | ND | 86.33 | 86.33 |
| | 01/03/2005 | ND | 5.54 | ND | 86.36 | 86.36 |

***Notes:***
***[Well Depth, Screen Interval] - Feet below ground surface***
***NC - Not Calculated - Top of casing elevation unknown, unable to calculate groundwater elevation***
***ND - Not Detected***
***NM-Not Measurable***
***NA-Not Available***

# *Table 1*
# *Well Gauge Report*
# *Former Shell Service Station #137675*

| *Well Name* | *Date* | *Depth to Product (ft)* | *Depth to Water (ft)* | *Product Thickness (ft)* | *Groundwater Elevation (ft)* | *Corrected GW Elevation (ft)* |
|---|---|---|---|---|---|---|
| **MW-09S [20, 5 - 20]** | | | | | | |
| | 04/13/2005 | ND | 4.56 | ND | 87.34 | 87.34 |
| | 08/17/2005 | ND | 5.18 | ND | 86.72 | 86.72 |
| | 11/17/2005 | ND | 5.68 | ND | 86.22 | 86.22 |
| | 03/30/2006 | ND | 5.65 | ND | 86.25 | 86.25 |
| | 06/29/2006 | ND | 4.78 | ND | 87.12 | 87.12 |
| | 09/28/2006 | ND | 6.88 | ND | 85.02 | 85.02 |
| | 12/19/2006 | ND | 6.39 | ND | 85.51 | 85.51 |
| | 03/06/2007 | ND | 5.71 | ND | 86.19 | 86.19 |
| | 06/22/2007 | ND | 6.32 | ND | 85.58 | 85.58 |
| | 09/25/2007 | ND | 8.40 | ND | 83.50 | 83.50 |
| | 12/05/2007 | ND | 9.23 | ND | 82.67 | 82.67 |
| | 03/25/2008 | ND | 7.04 | ND | 84.86 | 84.86 |
| | 06/24/2008 | ND | 6.21 | ND | 85.69 | 85.69 |
| | 09/15/2008 | ND | 7.92 | ND | 83.98 | 83.98 |
| | 12/12/2008 | ND | 7.55 | ND | 84.35 | 84.35 |
| | 02/20/2009 | ND | 8.07 | ND | 83.83 | 83.83 |
| | 05/07/2009 | ND | 5.25 | ND | 86.65 | 86.65 |
| | 09/23/2009 | ND | 7.16 | ND | 84.74 | 84.74 |
| | 12/07/2009 | ND | 5.43 | ND | 86.47 | 86.47 |
| | 03/11/2010 | ND | 4.47 | ND | 87.43 | 87.43 |
| | 05/17/2010 | ND | 4.78 | ND | 87.12 | 87.12 |
| | 09/27/2010 | ND | 6.57 | ND | 85.33 | 85.33 |
| | 12/02/2010 | ND | 6.06 | ND | 85.84 | 85.84 |
| | 02/14/2011 | ND | 6.31 | ND | 85.59 | 85.59 |
| | 05/16/2011 | ND | 5.58 | ND | 86.32 | 86.32 |
| | 08/08/2011 | ND | 7.55 | ND | 84.35 | 84.35 |
| | 10/31/2011 | ND | 5.95 | ND | 85.95 | 85.95 |
| | 02/01/2012 | ND | 6.00 | ND | 85.90 | 85.90 |
| | 04/30/2012 | ND | 5.99 | ND | 85.91 | 85.91 |
| **MW-11D [56, 51 - 56]** | | | | | | |
| | 07/08/2004 | ND | 9.65 | ND | 89.76 | 89.76 |
| | 08/17/2004 | ND | 10.19 | ND | 89.22 | 89.22 |
| | 09/10/2004 | ND | 11.17 | ND | 88.24 | 88.24 |
| | 10/04/2004 | ND | 11.73 | ND | 87.68 | 87.68 |
| | 01/03/2005 | ND | 11.93 | ND | 87.48 | 87.48 |
| | 04/13/2005 | ND | 9.68 | ND | 89.73 | 89.73 |
| | 08/17/2005 | ND | 11.27 | ND | 88.14 | 88.14 |
| | 11/17/2005 | ND | 12.19 | ND | 87.22 | 87.22 |
| | 03/30/2006 | ND | 11.62 | ND | 87.79 | 87.79 |
| | 06/29/2006 | ND | 12.95 | ND | 86.46 | 86.46 |

***Notes:***
***[Well Depth, Screen Interval] - Feet below ground surface***
***NC - Not Calculated - Top of casing elevation unknown, unable to calculate groundwater elevation***
***ND - Not Detected***
***NM-Not Measurable***
***NA-Not Available***

# *Table 1*
# *Well Gauge Report*
# *Former Shell Service Station #137675*

| *Well Name* | *Date* | *Depth to Product (ft)* | *Depth to Water (ft)* | *Product Thickness (ft)* | *Groundwater Elevation (ft)* | *Corrected GW Elevation (ft)* |
|---|---|---|---|---|---|---|
| **MW-11D [56, 51 - 56]** | | | | | | |
| | 09/28/2006 | ND | 14.12 | ND | 85.29 | 85.29 |
| | 12/19/2006 | ND | 13.09 | ND | 86.32 | 86.32 |
| | 03/06/2007 | ND | 12.24 | ND | 87.17 | 87.17 |
| | 06/22/2007 | ND | 12.75 | ND | 86.66 | 86.66 |
| | 09/25/2007 | ND | 15.17 | ND | 84.24 | 84.24 |
| | 12/05/2007 | ND | 15.00 | ND | 84.41 | 84.41 |
| | 03/25/2008 | ND | 14.12 | ND | 85.29 | 85.29 |
| | 06/24/2008 | ND | 12.10 | ND | 87.31 | 87.31 |
| | 09/15/2008 | ND | 15.08 | ND | 84.33 | 84.33 |
| | 12/12/2008 | ND | 15.87 | ND | 83.54 | 83.54 |
| | 02/20/2009 | ND | 15.17 | ND | 84.24 | 84.24 |
| | 05/07/2009 | ND | 12.92 | ND | 86.49 | 86.49 |
| | 09/23/2009 | ND | 14.33 | ND | 85.08 | 85.08 |
| | 12/07/2009 | ND | 12.68 | ND | 86.73 | 86.73 |
| | 03/11/2010 | ND | 9.41 | ND | 90.00 | 90.00 |
| | 05/17/2010 | ND | 10.17 | ND | 89.24 | 89.24 |
| | 09/27/2010 | ND | 12.40 | ND | 87.01 | 87.01 |
| | 12/02/2010 | ND | 13.41 | ND | 86.00 | 86.00 |
| | 02/14/2011 | ND | 14.59 | ND | 84.82 | 84.82 |
| | 05/16/2011 | ND | 12.20 | ND | 87.21 | 87.21 |
| | 08/08/2011 | ND | 14.72 | ND | 84.69 | 84.69 |
| | 10/31/2011 | ND | 13.56 | ND | 85.85 | 85.85 |
| | 02/01/2012 | ND | 13.28 | ND | 86.13 | 86.13 |
| | 04/30/2012 | ND | 13.00 | ND | 86.41 | 86.41 |
| **MW-11R [100, 90 - 100]** | | | | | | |
| | 07/01/2004 | ND | 44.98 | ND | 54.77 | 54.77 |
| | 08/17/2004 | ND | 16.43 | ND | 83.32 | 83.32 |
| | 09/10/2004 | ND | 13.07 | ND | 86.68 | 86.68 |
| | 10/04/2004 | ND | 12.22 | ND | 87.53 | 87.53 |
| | 01/03/2005 | ND | 13.52 | ND | 86.23 | 86.23 |
| | 04/13/2005 | ND | 10.47 | ND | 89.28 | 89.28 |
| | 08/17/2005 | ND | 10.88 | ND | 88.87 | 88.87 |
| | 11/17/2005 | ND | 12.24 | ND | 87.51 | 87.51 |
| | 03/30/2006 | ND | 11.08 | ND | 88.67 | 88.67 |
| | 06/29/2006 | ND | 11.68 | ND | 88.07 | 88.07 |
| | 09/28/2006 | ND | 14.03 | ND | 85.72 | 85.72 |
| | 12/19/2006 | ND | 14.35 | ND | 85.40 | 85.40 |
| | 03/06/2007 | ND | 16.81 | ND | 82.94 | 82.94 |
| | 06/22/2007 | ND | 14.05 | ND | 85.70 | 85.70 |
| | 09/25/2007 | ND | 17.90 | ND | 81.85 | 81.85 |

***Notes:***
***[Well Depth, Screen Interval] - Feet below ground surface***
***NC - Not Calculated - Top of casing elevation unknown, unable to calculate groundwater elevation***
***ND - Not Detected***
***NM-Not Measurable***
***NA-Not Available***

# *Table 1*
# *Well Gauge Report*
# *Former Shell Service Station #137675*

| *Well Name* | *Date* | *Depth to Product (ft)* | *Depth to Water (ft)* | *Product Thickness (ft)* | *Groundwater Elevation (ft)* | *Corrected GW Elevation (ft)* |
|---|---|---|---|---|---|---|
| **MW-11R [100, 90 - 100]** | | | | | | |
| | 12/05/2007 | ND | 22.00 | ND | 77.75 | 77.75 |
| | 03/25/2008 | ND | 16.95 | ND | 82.80 | 82.80 |
| | 06/24/2008 | ND | 15.58 | ND | 84.17 | 84.17 |
| | 09/15/2008 | ND | 18.68 | ND | 81.07 | 81.07 |
| | 12/12/2008 | ND | 20.35 | ND | 79.40 | 79.40 |
| | 02/20/2009 | ND | 22.32 | ND | 77.43 | 77.43 |
| | 05/07/2009 | ND | 19.51 | ND | 80.24 | 80.24 |
| | 09/23/2009 | ND | 15.85 | ND | 83.90 | 83.90 |
| | 12/07/2009 | ND | 18.85 | ND | 80.90 | 80.90 |
| | 03/11/2010 | ND | 15.24 | ND | 84.51 | 84.51 |
| | 05/17/2010 | ND | 17.39 | ND | 82.36 | 82.36 |
| | 09/27/2010 | ND | 15.52 | ND | 84.23 | 84.23 |
| | 12/02/2010 | ND | 21.73 | ND | 78.02 | 78.02 |
| | 02/14/2011 | ND | 21.21 | ND | 78.54 | 78.54 |
| | 05/16/2011 | ND | 15.34 | ND | 84.41 | 84.41 |
| | 08/08/2011 | ND | 17.99 | ND | 81.76 | 81.76 |
| | 10/31/2011 | ND | 17.89 | ND | 81.86 | 81.86 |
| | 02/01/2012 | ND | 16.75 | ND | 83.00 | 83.00 |
| | 04/30/2012 | ND | 13.21 | ND | 86.54 | 86.54 |
| **MW-11S [24, 9 - 24]** | | | | | | |
| | 07/08/2004 | ND | 10.08 | ND | 89.64 | 89.64 |
| | 08/17/2004 | ND | 10.44 | ND | 89.28 | 89.28 |
| | 09/10/2004 | ND | 11.55 | ND | 88.17 | 88.17 |
| | 10/04/2004 | ND | 12.06 | ND | 87.66 | 87.66 |
| | 01/03/2005 | ND | 12.19 | ND | 87.53 | 87.53 |
| | 04/13/2005 | ND | 9.67 | ND | 90.05 | 90.05 |
| | 08/17/2005 | ND | 11.63 | ND | 88.09 | 88.09 |
| | 11/17/2005 | ND | 12.50 | ND | 87.22 | 87.22 |
| | 03/30/2006 | ND | 11.82 | ND | 87.90 | 87.90 |
| | 06/29/2006 | ND | 11.75 | ND | 87.97 | 87.97 |
| | 09/28/2006 | ND | 14.25 | ND | 85.47 | 85.47 |
| | 12/19/2006 | ND | 12.62 | ND | 87.10 | 87.10 |
| | 03/06/2007 | ND | 12.34 | ND | 87.38 | 87.38 |
| | 06/22/2007 | ND | 12.90 | ND | 86.82 | 86.82 |
| | 09/25/2007 | ND | 16.38 | ND | 83.34 | 83.34 |
| | 12/05/2007 | ND | 15.50 | ND | 84.22 | 84.22 |
| | 03/25/2008 | ND | 14.15 | ND | 85.57 | 85.57 |
| | 06/24/2008 | ND | 12.38 | ND | 87.34 | 87.34 |
| | 09/15/2008 | ND | 15.45 | ND | 84.27 | 84.27 |
| | 12/12/2008 | ND | 16.09 | ND | 83.63 | 83.63 |

***Notes:***
***[Well Depth, Screen Interval] - Feet below ground surface***
***NC - Not Calculated - Top of casing elevation unknown, unable to calculate groundwater elevation***
***ND - Not Detected***
***NM-Not Measurable***
***NA-Not Available***

# *Table 1*
# *Well Gauge Report*
# *Former Shell Service Station #137675*

| *Well Name* | *Date* | *Depth to Product (ft)* | *Depth to Water (ft)* | *Product Thickness (ft)* | *Groundwater Elevation (ft)* | *Corrected GW Elevation (ft)* |
|---|---|---|---|---|---|---|
| **MW-11S [24, 9 - 24]** | | | | | | |
| | 02/20/2009 | ND | 15.21 | ND | 84.51 | 84.51 |
| | 05/07/2009 | ND | 13.03 | ND | 86.69 | 86.69 |
| | 09/23/2009 | ND | 14.20 | ND | 85.52 | 85.52 |
| | 12/07/2009 | ND | 12.37 | ND | 87.35 | 87.35 |
| | 03/11/2010 | ND | 9.41 | ND | 90.31 | 90.31 |
| | 05/17/2010 | ND | 10.56 | ND | 89.16 | 89.16 |
| | 09/27/2010 | ND | 13.83 | ND | 85.89 | 85.89 |
| | 12/02/2010 | ND | 13.78 | ND | 85.94 | 85.94 |
| | 02/14/2011 | ND | 13.41 | ND | 86.31 | 86.31 |
| | 05/16/2011 | ND | 12.14 | ND | 87.58 | 87.58 |
| | 08/08/2011 | ND | 14.82 | ND | 84.90 | 84.90 |
| | 10/31/2011 | ND | 13.62 | ND | 86.10 | 86.10 |
| | 02/01/2012 | ND | 13.05 | ND | 86.67 | 86.67 |
| | 04/30/2012 | ND | 13.30 | ND | 86.42 | 86.42 |
| **MW-12 [90, 50 - 90]** | | | | | | |
| | 06/22/2007 | Well Not Gauged | | | | |
| | 09/25/2007 | ND | 21.66 | ND | 78.28 | 78.28 |
| | 12/05/2007 | ND | 22.57 | ND | 77.37 | 77.37 |
| | 03/25/2008 | ND | 20.05 | ND | 79.89 | 79.89 |
| | 06/24/2008 | ND | 17.50 | ND | 82.44 | 82.44 |
| | 09/15/2008 | ND | 20.92 | ND | 79.02 | 79.02 |
| | 12/12/2008 | ND | 21.87 | ND | 78.07 | 78.07 |
| | 02/20/2009 | ND | 20.70 | ND | 79.24 | 79.24 |
| | 05/07/2009 | ND | 18.81 | ND | 81.13 | 81.13 |
| | 09/23/2009 | ND | 19.62 | ND | 80.32 | 80.32 |
| | 12/07/2009 | ND | 18.84 | ND | 81.10 | 81.10 |
| | 03/11/2010 | ND | 15.23 | ND | 84.71 | 84.71 |
| | 05/17/2010 | ND | 15.69 | ND | 84.25 | 84.25 |
| | 09/27/2010 | ND | 19.99 | ND | 79.95 | 79.95 |
| | 12/02/2010 | ND | 20.02 | ND | 79.92 | 79.92 |
| | 02/14/2011 | ND | 22.88 | ND | 77.06 | 77.06 |
| | 05/16/2011 | ND | 18.58 | ND | 81.36 | 81.36 |
| | 08/08/2011 | ND | 23.82 | ND | 76.12 | 76.12 |
| | 10/31/2011 | ND | 21.21 | ND | 78.73 | 78.73 |
| | 02/01/2012 | ND | 22.52 | ND | 77.42 | 77.42 |
| | 04/30/2012 | ND | 22.90 | ND | 77.04 | 77.04 |
| **MW-13D [65, 45 - 65]** | | | | | | |
| | 11/25/2008 | ND | 10.88 | ND | 80.17 | 80.17 |
| | 12/12/2008 | ND | 10.67 | ND | 80.38 | 80.38 |

***Notes:***
***[Well Depth, Screen Interval] - Feet below ground surface***
***NC - Not Calculated - Top of casing elevation unknown, unable to calculate groundwater elevation***
***ND - Not Detected***
***NM-Not Measurable***
***NA-Not Available***

# *Table 1*
# *Well Gauge Report*
# *Former Shell Service Station #137675*

| *Well Name* | *Date* | *Depth to Product (ft)* | *Depth to Water (ft)* | *Product Thickness (ft)* | *Groundwater Elevation (ft)* | *Corrected GW Elevation (ft)* |
|---|---|---|---|---|---|---|
| **MW-13D [65, 45 - 65]** | | | | | | |
| | 02/20/2009 | ND | 9.93 | ND | 81.12 | 81.12 |
| | 05/07/2009 | ND | 8.00 | ND | 83.05 | 83.05 |
| | 09/23/2009 | ND | 9.74 | ND | 81.31 | 81.31 |
| | 12/07/2009 | ND | 7.88 | ND | 83.17 | 83.17 |
| | 03/11/2010 | ND | 5.46 | ND | 85.59 | 85.59 |
| | 05/17/2010 | ND | 6.10 | ND | 84.95 | 84.95 |
| | 09/27/2010 | ND | 9.78 | ND | 81.27 | 81.27 |
| | 12/02/2010 | ND | 8.99 | ND | 82.06 | 82.06 |
| | 02/14/2011 | ND | 9.70 | ND | 81.35 | 81.35 |
| | 05/16/2011 | ND | 8.50 | ND | 82.55 | 82.55 |
| | 08/08/2011 | ND | 10.82 | ND | 80.23 | 80.23 |
| | 10/31/2011 | ND | 9.95 | ND | 81.10 | 81.10 |
| | 02/01/2012 | ND | 9.21 | ND | 81.84 | 81.84 |
| | 04/30/2012 | ND | 9.31 | ND | 81.74 | 81.74 |
| **MW-13S [35, 20 - 30]** | | | | | | |
| | 11/25/2008 | ND | 13.30 | ND | 78.69 | 78.69 |
| | 12/12/2008 | ND | 13.20 | ND | 78.79 | 78.79 |
| | 02/20/2009 | ND | 13.20 | ND | 78.79 | 78.79 |
| | 05/07/2009 | ND | 9.24 | ND | 82.75 | 82.75 |
| | 09/23/2009 | ND | 12.15 | ND | 79.84 | 79.84 |
| | 12/07/2009 | ND | 9.98 | ND | 82.01 | 82.01 |
| | 03/11/2010 | ND | 7.22 | ND | 84.77 | 84.77 |
| | 05/17/2010 | ND | 8.64 | ND | 83.35 | 83.35 |
| | 09/27/2010 | ND | 12.10 | ND | 79.89 | 79.89 |
| | 12/02/2010 | ND | 11.32 | ND | 80.67 | 80.67 |
| | 02/14/2011 | ND | 11.55 | ND | 80.44 | 80.44 |
| | 02/18/2011 | ND | 11.55 | ND | 80.44 | 80.44 |
| | 05/16/2011 | ND | 10.80 | ND | 81.19 | 81.19 |
| | 08/08/2011 | ND | 13.63 | ND | 78.36 | 78.36 |
| | 10/31/2011 | ND | 12.50 | ND | 79.49 | 79.49 |
| | 02/01/2012 | ND | 11.61 | ND | 80.38 | 80.38 |
| | 04/30/2012 | ND | 11.77 | ND | 80.22 | 80.22 |
| **MW-14D [65, 45 - 65]** | | | | | | |
| | 11/25/2008 | ND | 17.15 | ND | 77.42 | 77.42 |
| | 12/12/2008 | ND | 17.08 | ND | 77.49 | 77.49 |
| | 02/20/2009 | ND | 16.04 | ND | 78.53 | 78.53 |
| | 05/07/2009 | ND | 13.78 | ND | 80.79 | 80.79 |
| | 09/23/2009 | ND | 15.82 | ND | 78.75 | 78.75 |
| | 12/07/2009 | ND | 13.47 | ND | 81.10 | 81.10 |

***Notes:***
***[Well Depth, Screen Interval] - Feet below ground surface***
***NC - Not Calculated - Top of casing elevation unknown, unable to calculate groundwater elevation***
***ND - Not Detected***
***NM-Not Measurable***
***NA-Not Available***

# *Table 1*
# *Well Gauge Report*
# *Former Shell Service Station #137675*

| *Well Name* | *Date* | *Depth to Product (ft)* | *Depth to Water (ft)* | *Product Thickness (ft)* | *Groundwater Elevation (ft)* | *Corrected GW Elevation (ft)* |
|---|---|---|---|---|---|---|
| **MW-14D [65, 45 - 65]** | | | | | | |
| | 03/11/2010 | ND | 11.24 | ND | 83.33 | 83.33 |
| | 05/17/2010 | ND | 11.92 | ND | 82.65 | 82.65 |
| | 09/27/2010 | ND | 14.42 | ND | 80.15 | 80.15 |
| | 12/02/2010 | ND | 15.15 | ND | 79.42 | 79.42 |
| | 02/18/2011 | ND | 16.79 | ND | 77.78 | 77.78 |
| | 05/16/2011 | ND | 16.00 | ND | 78.57 | 78.57 |
| | 08/08/2011 | ND | 18.06 | ND | 76.51 | 76.51 |
| | 10/31/2011 | ND | 17.74 | ND | 76.83 | 76.83 |
| | 02/01/2012 | ND | 17.75 | ND | 76.82 | 76.82 |
| | 04/30/2012 | ND | 16.95 | ND | 77.62 | 77.62 |
| **MW-14S [30, 15 - 30]** | | | | | | |
| | 11/25/2008 | ND | 18.97 | ND | 75.49 | 75.49 |
| | 12/12/2008 | ND | 18.83 | ND | 75.63 | 75.63 |
| | 02/20/2009 | ND | 17.67 | ND | 76.79 | 76.79 |
| | 05/07/2009 | ND | 15.02 | ND | 79.44 | 79.44 |
| | 09/23/2009 | ND | 17.43 | ND | 77.03 | 77.03 |
| | 12/07/2009 | ND | 15.59 | ND | 78.87 | 78.87 |
| | 03/11/2010 | ND | 12.10 | ND | 82.36 | 82.36 |
| | 05/17/2010 | ND | 13.01 | ND | 81.45 | 81.45 |
| | 09/27/2010 | ND | 17.33 | ND | 77.13 | 77.13 |
| | 12/02/2010 | ND | 16.98 | ND | 77.48 | 77.48 |
| | 02/18/2011 | ND | 18.26 | ND | 76.20 | 76.20 |
| | 05/16/2011 | ND | 16.40 | ND | 78.06 | 78.06 |
| | 08/08/2011 | ND | 19.74 | ND | 74.72 | 74.72 |
| | 10/31/2011 | ND | 19.32 | ND | 75.14 | 75.14 |
| | 02/01/2012 | ND | 18.17 | ND | 76.29 | 76.29 |
| | 04/30/2012 | ND | 18.60 | ND | 75.86 | 75.86 |
| **MW-15D [65, 45 - 65]** | | | | | | |
| | 11/25/2008 | ND | 17.59 | ND | 75.16 | 75.16 |
| | 12/12/2008 | ND | 17.55 | ND | 75.20 | 75.20 |
| | 02/20/2009 | ND | 16.57 | ND | 76.18 | 76.18 |
| | 05/07/2009 | ND | 14.43 | ND | 78.32 | 78.32 |
| | 09/23/2009 | ND | 16.31 | ND | 76.44 | 76.44 |
| | 12/07/2009 | ND | 15.30 | ND | 77.45 | 77.45 |
| | 03/11/2010 | ND | 12.37 | ND | 80.38 | 80.38 |
| | 05/17/2010 | ND | 11.98 | ND | 80.77 | 80.77 |
| | 09/27/2010 | ND | 15.80 | ND | 76.95 | 76.95 |
| | 12/02/2010 | ND | 15.82 | ND | 76.93 | 76.93 |
| | 02/17/2011 | ND | 17.41 | ND | 75.34 | 75.34 |

***Notes:***
***[Well Depth, Screen Interval] - Feet below ground surface***
***NC - Not Calculated - Top of casing elevation unknown, unable to calculate groundwater elevation***
***ND - Not Detected***
***NM-Not Measurable***
***NA-Not Available***

# *Table 1*
# *Well Gauge Report*
# *Former Shell Service Station #137675*

| *Well Name* | *Date* | *Depth to Product (ft)* | *Depth to Water (ft)* | *Product Thickness (ft)* | *Groundwater Elevation (ft)* | *Corrected GW Elevation (ft)* |
|---|---|---|---|---|---|---|
| **MW-15D [65, 45 - 65]** | | | | | | |
| | 05/16/2011 | ND | 15.30 | ND | 77.45 | 77.45 |
| | 08/08/2011 | ND | 18.83 | ND | 73.92 | 73.92 |
| | 10/31/2011 | ND | 17.91 | ND | 74.84 | 74.84 |
| | 02/01/2012 | ND | 17.19 | ND | 75.56 | 75.56 |
| | 04/30/2012 | ND | 17.69 | ND | 75.06 | 75.06 |
| **MW-15S [30, 15 - 30]** | | | | | | |
| | 11/25/2008 | ND | 19.13 | ND | 73.48 | 73.48 |
| | 12/12/2008 | ND | 18.93 | ND | 73.68 | 73.68 |
| | 02/20/2009 | ND | 17.87 | ND | 74.74 | 74.74 |
| | 05/07/2009 | ND | 15.22 | ND | 77.39 | 77.39 |
| | 09/23/2009 | ND | 17.46 | ND | 75.15 | 75.15 |
| | 12/07/2009 | ND | 15.85 | ND | 76.76 | 76.76 |
| | 03/11/2010 | ND | 11.67 | ND | 80.94 | 80.94 |
| | 05/17/2010 | ND | 12.96 | ND | 79.65 | 79.65 |
| | 09/27/2010 | ND | 17.70 | ND | 74.91 | 74.91 |
| | 12/02/2010 | ND | 17.32 | ND | 75.29 | 75.29 |
| | 02/17/2011 | ND | 18.96 | ND | 73.65 | 73.65 |
| | 05/16/2011 | ND | 16.83 | ND | 75.78 | 75.78 |
| | 08/08/2011 | ND | 20.50 | ND | 72.11 | 72.11 |
| | 10/31/2011 | ND | 20.12 | ND | 72.49 | 72.49 |
| | 02/01/2012 | ND | 18.56 | ND | 74.05 | 74.05 |
| | 04/30/2012 | ND | 19.63 | ND | 72.98 | 72.98 |
| **MW-16D [60, 40 - 60]** | | | | | | |
| | 05/07/2009 | ND | 10.14 | ND | 80.14 | 80.14 |
| | 09/23/2009 | ND | 10.40 | ND | 79.88 | 79.88 |
| | 12/07/2009 | ND | 8.04 | ND | 82.24 | 82.24 |
| | 03/11/2010 | ND | 6.59 | ND | 83.69 | 83.69 |
| | 05/17/2010 | ND | 7.54 | ND | 82.74 | 82.74 |
| | 09/27/2010 | ND | 11.95 | ND | 78.33 | 78.33 |
| | 12/02/2010 | ND | 10.23 | ND | 80.05 | 80.05 |
| | 02/14/2011 | ND | 11.24 | ND | 79.04 | 79.04 |
| | 02/18/2011 | ND | 11.24 | ND | 79.04 | 79.04 |
| | 05/16/2011 | ND | 11.40 | ND | 78.88 | 78.88 |
| | 08/08/2011 | ND | 12.72 | ND | 77.56 | 77.56 |
| | 10/31/2011 | ND | 12.81 | ND | 77.47 | 77.47 |
| | 02/01/2012 | ND | 13.34 | ND | 76.94 | 76.94 |
| | 04/30/2012 | ND | 11.67 | ND | 78.61 | 78.61 |
| **MW-16S [30, 10 - 30]** | | | | | | |
| | 05/07/2009 | ND | 9.48 | ND | 80.64 | 80.64 |

***Notes:***
***[Well Depth, Screen Interval] - Feet below ground surface***
***NC - Not Calculated - Top of casing elevation unknown, unable to calculate groundwater elevation***
***ND - Not Detected***
***NM-Not Measurable***
***NA-Not Available***

# *Table 1*
# *Well Gauge Report*
# *Former Shell Service Station #137675*

| *Well Name* | *Date* | *Depth to Product (ft)* | *Depth to Water (ft)* | *Product Thickness (ft)* | *Groundwater Elevation (ft)* | *Corrected GW Elevation (ft)* |
|---|---|---|---|---|---|---|
| **MW-16S [30, 10 - 30]** | | | | | | |
| | 09/23/2009 | ND | 12.04 | ND | 78.08 | 78.08 |
| | 12/07/2009 | ND | 9.84 | ND | 80.28 | 80.28 |
| | 03/11/2010 | ND | 7.35 | ND | 82.77 | 82.77 |
| | 05/17/2010 | ND | 8.75 | ND | 81.37 | 81.37 |
| | 09/27/2010 | ND | 11.92 | ND | 78.20 | 78.20 |
| | 12/02/2010 | ND | 11.17 | ND | 78.95 | 78.95 |
| | 02/14/2011 | ND | 11.44 | ND | 78.68 | 78.68 |
| | 02/18/2011 | ND | 11.44 | ND | 78.68 | 78.68 |
| | 05/16/2011 | ND | 10.88 | ND | 79.24 | 79.24 |
| | 08/08/2011 | ND | 13.66 | ND | 76.46 | 76.46 |
| | 10/31/2011 | ND | 12.71 | ND | 77.41 | 77.41 |
| | 02/01/2012 | ND | 12.04 | ND | 78.08 | 78.08 |
| | 04/30/2012 | ND | 12.09 | ND | 78.03 | 78.03 |
| **MW-17D [60, 40 - 60]** | | | | | | |
| | 05/07/2009 | ND | 10.83 | ND | 77.96 | 77.96 |
| | 09/23/2009 | ND | 12.59 | ND | 76.20 | 76.20 |
| | 12/07/2009 | ND | 10.88 | ND | 77.91 | 77.91 |
| | 03/11/2010 | ND | 7.99 | ND | 80.80 | 80.80 |
| | 05/17/2010 | ND | 9.59 | ND | 79.20 | 79.20 |
| | 09/27/2010 | ND | 11.90 | ND | 76.89 | 76.89 |
| | 12/02/2010 | ND | 12.11 | ND | 76.68 | 76.68 |
| | 02/17/2011 | ND | 13.51 | ND | 75.28 | 75.28 |
| | 05/16/2011 | ND | 11.90 | ND | 76.89 | 76.89 |
| | 08/08/2011 | ND | 15.18 | ND | 73.61 | 73.61 |
| | 10/31/2011 | ND | 14.51 | ND | 74.28 | 74.28 |
| | 02/01/2012 | ND | 13.24 | ND | 75.55 | 75.55 |
| | 04/30/2012 | ND | 13.70 | ND | 75.09 | 75.09 |
| **MW-17S [30, 10 - 30]** | | | | | | |
| | 05/07/2009 | ND | 11.06 | ND | 77.70 | 77.70 |
| | 09/23/2009 | ND | 10.58 | ND | 78.18 | 78.18 |
| | 12/07/2009 | ND | 11.61 | ND | 77.15 | 77.15 |
| | 03/11/2010 | ND | 8.85 | ND | 79.91 | 79.91 |
| | 05/17/2010 | ND | 9.57 | ND | 79.19 | 79.19 |
| | 09/27/2010 | ND | 13.88 | ND | 74.88 | 74.88 |
| | 12/02/2010 | ND | 13.17 | ND | 75.59 | 75.59 |
| | 02/17/2011 | ND | 14.52 | ND | 74.24 | 74.24 |
| | 05/16/2011 | ND | 10.80 | ND | 77.96 | 77.96 |
| | 08/08/2011 | ND | 16.39 | ND | 72.37 | 72.37 |
| | 10/31/2011 | ND | 15.49 | ND | 73.27 | 73.27 |

***Notes:***
***[Well Depth, Screen Interval] - Feet below ground surface***
***NC - Not Calculated - Top of casing elevation unknown, unable to calculate groundwater elevation***
***ND - Not Detected***
***NM-Not Measurable***
***NA-Not Available***

# *Table 1*
# *Well Gauge Report*
# *Former Shell Service Station #137675*

| *Well Name* | *Date* | *Depth to Product (ft)* | *Depth to Water (ft)* | *Product Thickness (ft)* | *Groundwater Elevation (ft)* | *Corrected GW Elevation (ft)* |
|---|---|---|---|---|---|---|
| **MW-17S [30, 10 - 30]** | | | | | | |
| | 02/01/2012 | ND | 14.11 | ND | 74.65 | 74.65 |
| | 04/30/2012 | ND | 15.26 | ND | 73.50 | 73.50 |
| **MW-17W [68, 63 - 68]** | | | | | | |
| | 05/07/2009 | ND | 10.45 | ND | 78.67 | 78.67 |
| | 09/23/2009 | ND | 11.66 | ND | 77.46 | 77.46 |
| | 12/07/2009 | ND | 9.37 | ND | 79.75 | 79.75 |
| | 03/11/2010 | ND | 7.24 | ND | 81.88 | 81.88 |
| | 05/17/2010 | ND | 7.65 | ND | 81.47 | 81.47 |
| | 09/27/2010 | ND | 10.46 | ND | 78.66 | 78.66 |
| | 12/02/2010 | ND | 11.50 | ND | 77.62 | 77.62 |
| | 02/17/2011 | ND | 12.72 | ND | 76.40 | 76.40 |
| | 05/16/2011 | ND | 10.20 | ND | 78.92 | 78.92 |
| | 08/08/2011 | ND | 13.68 | ND | 75.44 | 75.44 |
| | 10/31/2011 | ND | 13.15 | ND | 75.97 | 75.97 |
| | 02/01/2012 | ND | 12.78 | ND | 76.34 | 76.34 |
| | 04/30/2012 | ND | 12.78 | ND | 76.34 | 76.34 |
| **MW-18 [80, 70 - 80]** | | | | | | |
| | 05/07/2009 | ND | 19.65 | ND | 81.49 | 81.49 |
| | 09/23/2009 | ND | 20.11 | ND | 81.03 | 81.03 |
| | 12/07/2009 | ND | 20.78 | ND | 80.36 | 80.36 |
| | 03/11/2010 | ND | 18.25 | ND | 82.89 | 82.89 |
| | 05/17/2010 | ND | 16.73 | ND | 84.41 | 84.41 |
| | 09/27/2010 | ND | 21.30 | ND | 79.84 | 79.84 |
| | 12/02/2010 | ND | 20.29 | ND | 80.85 | 80.85 |
| | 02/14/2011 | ND | 21.28 | ND | 79.86 | 79.86 |
| | 05/16/2011 | ND | 18.71 | ND | 82.43 | 82.43 |
| | 08/08/2011 | ND | 23.07 | ND | 78.07 | 78.07 |
| | 10/31/2011 | ND | 21.54 | ND | 79.60 | 79.60 |
| | 02/01/2012 | ND | 21.61 | ND | 79.53 | 79.53 |
| | 04/30/2012 | ND | 21.94 | ND | 79.20 | 79.20 |
| **MW-24D [54, 40 - 54]** | | | | | | |
| | 12/02/2010 | ND | 6.05 | ND | 78.49 | 78.49 |
| | 02/17/2011 | ND | 6.40 | ND | 78.14 | 78.14 |
| | 05/16/2011 | ND | 6.00 | ND | 78.54 | 78.54 |
| | 08/08/2011 | ND | 7.87 | ND | 76.67 | 76.67 |
| | 10/31/2011 | ND | 7.96 | ND | 76.58 | 76.58 |
| | 02/01/2012 | ND | 7.74 | ND | 76.80 | 76.80 |
| | 04/30/2012 | ND | 10.49 | ND | 74.05 | 74.05 |

***Notes:***
***[Well Depth, Screen Interval] - Feet below ground surface***
***NC - Not Calculated - Top of casing elevation unknown, unable to calculate groundwater elevation***
***ND - Not Detected***
***NM-Not Measurable***
***NA-Not Available***

# *Table 1*
# *Well Gauge Report*
# *Former Shell Service Station #137675*

| *Well Name* | *Date* | *Depth to Product (ft)* | *Depth to Water (ft)* | *Product Thickness (ft)* | *Groundwater Elevation (ft)* | *Corrected GW Elevation (ft)* |
|---|---|---|---|---|---|---|
| **MW-24S [30, 15 - 30]** | | | | | | |
| | 12/02/2010 | ND | 7.63 | ND | 77.05 | 77.05 |
| | 02/14/2011 | ND | 8.33 | ND | 76.35 | 76.35 |
| | 05/16/2011 | ND | 8.05 | ND | 76.63 | 76.63 |
| | 08/08/2011 | ND | 10.56 | ND | 74.12 | 74.12 |
| | 10/31/2011 | ND | 9.19 | ND | 75.49 | 75.49 |
| | 02/01/2012 | ND | 8.75 | ND | 75.93 | 75.93 |
| | 04/30/2012 | ND | 9.28 | ND | 75.40 | 75.40 |
| **MW-25D [52, 40 - 52]** | | | | | | |
| | 12/02/2010 | ND | 5.52 | ND | 76.51 | 76.51 |
| | 02/17/2011 | ND | 7.85 | ND | 74.18 | 74.18 |
| | 05/16/2011 | ND | 6.84 | ND | 75.19 | 75.19 |
| | 08/08/2011 | ND | 9.90 | ND | 72.13 | 72.13 |
| | 10/31/2011 | ND | 9.16 | ND | 72.87 | 72.87 |
| | 02/01/2012 | ND | 7.96 | ND | 74.07 | 74.07 |
| | 04/30/2012 | ND | 9.81 | ND | 72.22 | 72.22 |
| **MW-25S [30, 15 - 30]** | | | | | | |
| | 12/02/2010 | ND | 6.94 | ND | 74.92 | 74.92 |
| | 02/14/2011 | ND | 8.40 | ND | 73.46 | 73.46 |
| | 05/16/2011 | ND | 7.50 | ND | 74.36 | 74.36 |
| | 08/08/2011 | ND | 10.69 | ND | 71.17 | 71.17 |
| | 10/31/2011 | ND | 9.11 | ND | 72.75 | 72.75 |
| | 02/01/2012 | ND | 8.20 | ND | 73.66 | 73.66 |
| | 04/30/2012 | ND | 9.39 | ND | 72.47 | 72.47 |
| **MW-26D [46, 40 - 46]** | | | | | | |
| | 12/02/2010 | ND | 13.26 | ND | 71.69 | 71.69 |
| | 01/11/2011 | ND | 15.91 | ND | 69.04 | 69.04 |
| | 02/15/2011 | ND | 15.75 | ND | 69.20 | 69.20 |
| | 03/07/2011 | ND | 14.04 | ND | 70.91 | 70.91 |
| | 04/18/2011 | ND | 13.53 | ND | 71.42 | 71.42 |
| | 05/16/2011 | ND | 12.70 | ND | 72.25 | 72.25 |
| | 08/08/2011 | ND | 16.55 | ND | 68.40 | 68.40 |
| | 10/31/2011 | ND | 16.56 | ND | 68.39 | 68.39 |
| | 02/01/2012 | ND | 15.15 | ND | 69.80 | 69.80 |
| | 04/30/2012 | ND | 15.25 | ND | 69.70 | 69.70 |
| **MW-26S [30, 15 - 30]** | | | | | | |
| | 12/02/2010 | ND | 14.10 | ND | 71.20 | 71.20 |
| | 01/11/2011 | ND | 15.44 | ND | 69.86 | 69.86 |
| | 02/15/2011 | ND | 15.34 | ND | 69.96 | 69.96 |

***Notes:***
***[Well Depth, Screen Interval] - Feet below ground surface***
***NC - Not Calculated - Top of casing elevation unknown, unable to calculate groundwater elevation***
***ND - Not Detected***
***NM-Not Measurable***
***NA-Not Available***

# *Table 1*
# *Well Gauge Report*
# *Former Shell Service Station #137675*

| *Well Name* | *Date* | *Depth to Product (ft)* | *Depth to Water (ft)* | *Product Thickness (ft)* | *Groundwater Elevation (ft)* | *Corrected GW Elevation (ft)* |
|---|---|---|---|---|---|---|
| **MW-26S [30, 15 - 30]** | | | | | | |
| | 03/07/2011 | ND | 14.98 | ND | 70.32 | 70.32 |
| | 04/18/2011 | ND | 14.13 | ND | 71.17 | 71.17 |
| | 05/16/2011 | ND | 13.15 | ND | 72.15 | 72.15 |
| | 08/08/2011 | ND | 17.02 | ND | 68.28 | 68.28 |
| | 10/31/2011 | ND | 16.72 | ND | 68.58 | 68.58 |
| | 02/01/2012 | ND | 15.22 | ND | 70.08 | 70.08 |
| | 04/30/2012 | ND | 15.65 | ND | 69.65 | 69.65 |
| **RW-01 [25, 5 - 25]** | | | | | | |
| | 01/06/2004 | ND | 3.71 | ND | 97.18 | 94.59 |
| | 04/05/2004 | ND | 4.00 | ND | 96.89 | 94.30 |
| | 08/17/2004 | ND | 22.20 | ND | 78.69 | 78.69 |
| | 09/10/2004 | ND | 21.40 | ND | 79.49 | 79.49 |
| | 10/05/2004 | ND | 21.50 | ND | 79.39 | 79.39 |
| | 01/03/2005 | ND | 21.45 | ND | 79.44 | 79.44 |
| | 04/13/2005 | ND | 21.40 | ND | 79.49 | 79.49 |
| | 09/28/2006 | ND | 11.49 | ND | 89.40 | 89.40 |
| | 03/06/2007 | ND | 22.30 | ND | 78.59 | 78.59 |
| | 06/22/2007 | ND | 22.10 | ND | 78.79 | 78.79 |
| | 09/25/2007 | ND | 18.02 | ND | 82.87 | 82.87 |
| | 12/05/2007 | ND | 18.40 | ND | 82.49 | 82.49 |
| | 03/25/2008 | ND | 21.80 | ND | 79.09 | 79.09 |
| | 06/24/2008 | ND | 11.58 | ND | 89.31 | 89.31 |
| | 09/15/2008 | ND | 17.20 | ND | 83.69 | 83.69 |
| | 12/12/2008 | ND | 17.30 | ND | 83.59 | 83.59 |
| | 02/20/2009 | ND | 18.68 | ND | 82.21 | 82.21 |
| | 05/07/2009 | ND | 16.99 | ND | 83.90 | 83.90 |
| | 09/23/2009 | ND | 16.87 | ND | 84.02 | 84.02 |
| | 12/07/2009 | ND | 21.32 | ND | 79.57 | 79.57 |
| | 03/11/2010 | ND | 16.17 | ND | 84.72 | 84.72 |
| | 05/17/2010 | ND | 16.40 | ND | 84.49 | 84.49 |
| | 09/27/2010 | ND | 16.78 | ND | 84.11 | 84.11 |
| | 12/02/2010 | ND | 20.48 | ND | 80.41 | 80.41 |
| | 02/15/2011 | ND | 14.83 | ND | 86.06 | 86.06 |
| | 05/16/2011 | ND | 13.12 | ND | 87.77 | 87.77 |
| | 10/31/2011 | Well Not Gauged - Well Inaccessible | | | | |
| **RW-03 [23, 3 - 23]** | | | | | | |
| | 01/06/2004 | ND | 3.83 | ND | 96.53 | 94.07 |
| | 04/05/2004 | ND | 3.96 | ND | 96.40 | 93.94 |
| | 08/17/2004 | ND | 19.70 | ND | 80.66 | 80.66 |

***Notes:***
***[Well Depth, Screen Interval] - Feet below ground surface***
***NC - Not Calculated - Top of casing elevation unknown, unable to calculate groundwater elevation***
***ND - Not Detected***
***NM-Not Measurable***
***NA-Not Available***

# *Table 1*
# *Well Gauge Report*
# *Former Shell Service Station #137675*

| *Well Name* | *Date* | *Depth to Product (ft)* | *Depth to Water (ft)* | *Product Thickness (ft)* | *Groundwater Elevation (ft)* | *Corrected GW Elevation (ft)* |
|---|---|---|---|---|---|---|
| **RW-03 [23, 3 - 23]** | | | | | | |
| | 09/10/2004 | ND | 19.80 | ND | 80.56 | 80.56 |
| | 10/05/2004 | ND | 19.75 | ND | 80.61 | 80.61 |
| | 01/03/2005 | ND | 19.78 | ND | 80.58 | 80.58 |
| | 04/13/2005 | ND | 19.75 | ND | 80.61 | 80.61 |
| | 09/29/2006 | ND | 11.52 | ND | 88.84 | 88.84 |
| | 03/06/2007 | ND | 17.40 | ND | 82.96 | 82.96 |
| | 06/22/2007 | ND | 17.30 | ND | 83.06 | 83.06 |
| | 09/25/2007 | ND | 15.18 | ND | 85.18 | 85.18 |
| | 12/05/2007 | ND | 15.61 | ND | 84.75 | 84.75 |
| | 03/25/2008 | ND | 18.50 | ND | 81.86 | 81.86 |
| | 06/24/2008 | ND | 20.20 | ND | 80.16 | 80.16 |
| | 09/15/2008 | ND | 16.90 | ND | 83.46 | 83.46 |
| | 12/12/2008 | ND | 16.86 | ND | 83.50 | 83.50 |
| | 02/20/2009 | ND | 20.36 | ND | 80.00 | 80.00 |
| | 05/07/2009 | ND | 18.68 | ND | 81.68 | 81.68 |
| | 09/23/2009 | ND | 20.70 | ND | 79.66 | 79.66 |
| | 12/07/2009 | ND | 20.10 | ND | 80.26 | 80.26 |
| | 03/11/2010 | ND | 10.90 | ND | 89.46 | 89.46 |
| | 09/27/2010 | ND | 17.45 | ND | 82.91 | 82.91 |
| | 12/02/2010 | ND | 17.60 | ND | 82.76 | 82.76 |
| | 05/16/2011 | ND | 13.20 | ND | 87.16 | 87.16 |
| | 10/31/2011 | Well Not Gauged - Well Inaccessible | | | | |
| **RW-10 [20, 5 - 20]** | | | | | | |
| | 04/05/2004 | ND | 4.15 | ND | 95.73 | 93.66 |
| | 07/01/2004 | ND | 5.43 | ND | 94.45 | 94.45 |
| | 08/17/2004 | ND | 14.25 | ND | 85.63 | 85.63 |
| | 09/10/2004 | ND | 13.60 | ND | 86.28 | 86.28 |
| | 10/05/2004 | ND | 14.10 | ND | 85.78 | 85.78 |
| | 01/03/2005 | ND | 14.20 | ND | 85.68 | 85.68 |
| | 04/13/2005 | ND | 14.15 | ND | 85.73 | 85.73 |
| | 09/29/2006 | ND | 10.74 | ND | 89.14 | 89.14 |
| | 03/06/2007 | ND | 13.30 | ND | 86.58 | 86.58 |
| | 06/22/2007 | ND | 13.21 | ND | 86.67 | 86.67 |
| | 09/25/2007 | ND | 12.16 | ND | 87.72 | 87.72 |
| | 12/05/2007 | ND | 11.21 | ND | 88.67 | 88.67 |
| | 03/25/2008 | ND | 13.30 | ND | 86.58 | 86.58 |
| | 06/24/2008 | ND | 11.43 | ND | 88.45 | 88.45 |
| | 09/15/2008 | ND | 15.70 | ND | 84.18 | 84.18 |
| | 12/12/2008 | ND | 15.82 | ND | 84.06 | 84.06 |
| | 02/20/2009 | ND | 13.87 | ND | 86.01 | 86.01 |

***Notes:***
***[Well Depth, Screen Interval] - Feet below ground surface***
***NC - Not Calculated - Top of casing elevation unknown, unable to calculate groundwater elevation***
***ND - Not Detected***
***NM-Not Measurable***
***NA-Not Available***

# *Table 1*
# *Well Gauge Report*
# *Former Shell Service Station #137675*

| *Well Name* | *Date* | *Depth to Product (ft)* | *Depth to Water (ft)* | *Product Thickness (ft)* | *Groundwater Elevation (ft)* | *Corrected GW Elevation (ft)* |
|---|---|---|---|---|---|---|
| **RW-10 [20, 5 - 20]** | | | | | | |
| | 05/07/2009 | ND | 15.58 | ND | 84.30 | 84.30 |
| | 09/23/2009 | ND | 15.26 | ND | 84.62 | 84.62 |
| | 12/07/2009 | ND | 12.08 | ND | 87.80 | 87.80 |
| | 03/11/2010 | ND | 8.07 | ND | 91.81 | 91.81 |
| | 05/17/2010 | ND | 8.58 | ND | 91.30 | 91.30 |
| | 09/27/2010 | ND | 14.80 | ND | 85.08 | 85.08 |
| | 12/02/2010 | ND | 13.05 | ND | 86.83 | 86.83 |
| | 02/15/2011 | ND | 14.67 | ND | 85.21 | 85.21 |
| | 05/16/2011 | ND | 13.11 | ND | 86.77 | 86.77 |
| | 10/31/2011 | Well Not Gauged - Well Inaccessible | | | | |
| **RW-19 [50, 10 - 50]** | | | | | | |
| | 09/27/2010 | ND | 21.19 | ND | 70.05 | 70.05 |
| | 12/02/2010 | ND | 20.16 | ND | 71.08 | 71.08 |
| | 02/14/2011 | ND | 34.06 | ND | 57.18 | 57.18 |
| | 05/16/2011 | ND | 31.15 | ND | 60.09 | 60.09 |
| | 08/08/2011 | ND | 36.09 | ND | 55.15 | 55.15 |
| | 10/31/2011 | ND | 34.87 | ND | 56.37 | 56.37 |
| | 02/01/2012 | ND | 36.65 | ND | 54.59 | 54.59 |
| | 04/30/2012 | ND | 32.65 | ND | 58.59 | 58.59 |
| **RW-20 [52, 10 - 50]** | | | | | | |
| | 12/02/2010 | ND | 15.13 | ND | 73.17 | 73.17 |
| | 02/17/2011 | ND | 17.14 | ND | 71.16 | 71.16 |
| | 05/16/2011 | ND | 24.83 | ND | 63.47 | 63.47 |
| | 08/08/2011 | ND | 22.57 | ND | 65.73 | 65.73 |
| | 10/31/2011 | ND | 25.52 | ND | 62.78 | 62.78 |
| | 11/07/2011 | ND | 16.58 | ND | 71.72 | 71.72 |
| | 02/01/2012 | ND | 25.54 | ND | 62.76 | 62.76 |
| | 04/30/2012 | ND | 26.90 | ND | 61.40 | 61.40 |
| **RW-21 [50, 10 - 50]** | | | | | | |
| | 12/02/2010 | ND | 11.21 | ND | 73.79 | 73.79 |
| | 02/17/2011 | ND | 19.91 | ND | 65.09 | 65.09 |
| | 05/16/2011 | ND | 17.80 | ND | 67.20 | 67.20 |
| | 08/08/2011 | ND | 21.73 | ND | 63.27 | 63.27 |
| | 10/31/2011 | ND | 25.50 | ND | 59.50 | 59.50 |
| | 11/07/2011 | ND | 12.50 | ND | 72.50 | 72.50 |
| | 02/01/2012 | ND | 22.27 | ND | 62.73 | 62.73 |
| | 04/30/2012 | ND | 23.88 | ND | 61.12 | 61.12 |

***Notes:***
***[Well Depth, Screen Interval] - Feet below ground surface***
***NC - Not Calculated - Top of casing elevation unknown, unable to calculate groundwater elevation***
***ND - Not Detected***
***NM-Not Measurable***
***NA-Not Available***

# *Table 1*
# *Well Gauge Report*
# *Former Shell Service Station #137675*

| *Well Name* | *Date* | *Depth to Product (ft)* | *Depth to Water (ft)* | *Product Thickness (ft)* | *Groundwater Elevation (ft)* | *Corrected GW Elevation (ft)* |
|---|---|---|---|---|---|---|
| **RW-22 [65, 10 - 65]** | | | | | | |
| | 09/27/2010 | ND | 20.44 | ND | 78.51 | 78.51 |
| | 12/02/2010 | ND | 20.08 | ND | 78.87 | 78.87 |
| | 02/14/2011 | ND | 23.55 | ND | 75.40 | 75.40 |
| | 05/16/2011 | ND | 18.92 | ND | 80.03 | 80.03 |
| | 08/08/2011 | ND | 51.22 | ND | 47.73 | 47.73 |
| | 10/31/2011 | ND | 21.76 | ND | 77.19 | 77.19 |
| | 02/01/2012 | ND | 49.95 | ND | 49.00 | 49.00 |
| | 04/30/2012 | ND | 47.71 | ND | 51.24 | 51.24 |
| **RW-23 [65, 10 - 65]** | | | | | | |
| | 12/02/2010 | ND | 12.63 | ND | 78.81 | 78.81 |
| | 02/15/2011 | ND | 14.64 | ND | 76.80 | 76.80 |
| | 02/17/2011 | ND | 13.49 | ND | 77.95 | 77.95 |
| | 05/16/2011 | ND | 24.45 | ND | 66.99 | 66.99 |
| | 08/08/2011 | ND | 15.29 | ND | 76.15 | 76.15 |
| | 10/31/2011 | ND | 22.22 | ND | 69.22 | 69.22 |
| | 02/01/2012 | ND | 26.66 | ND | 64.78 | 64.78 |
| | 04/30/2012 | ND | 13.72 | ND | 77.72 | 77.72 |
| **RW-27** | | | | | | |
| | 04/30/2012 | ND | 16.16 | ND | 66.34 | 66.34 |
| **TF-01** | | | | | | |
| | 04/05/2004 | ND | 4.46 | ND | NC | NC |
| | 10/05/2004 | ND | 11.05 | ND | NC | NC |
| | 01/03/2005 | ND | 11.13 | ND | NC | NC |
| | 04/13/2005 | ND | 8.33 | ND | NC | NC |
| | 11/17/2005 | ND | 9.33 | ND | NC | NC |
| | 03/30/2006 | ND | 10.92 | ND | NC | NC |
| | 06/29/2006 | ND | 9.66 | ND | NC | NC |
| | 12/19/2006 | Well Not Gauged - Dry Well | | | | |
| | 01/18/2007 | ND | 11.24 | ND | NC | NC |
| | 03/06/2007 | Well Not Gauged - Dry Well | | | | |
| | 06/22/2007 | Well Not Gauged - Dry Well | | | | |
| | 09/25/2007 | Well Not Gauged - Dry Well | | | | |
| | 12/05/2007 | Well Not Gauged - Dry Well | | | | |
| | 03/25/2008 | Well Not Gauged - Dry Well | | | | |
| | 09/15/2008 | ND | 11.86 | ND | NC | NC |
| | 12/12/2008 | ND | 12.00 | ND | NC | NC |
| | 02/20/2009 | ND | 11.98 | ND | NC | NC |
| | 05/07/2009 | ND | 11.96 | ND | NC | NC |
| | 09/23/2009 | Well Not Gauged - Dry Well | | | | |

***Notes:***
***[Well Depth, Screen Interval] - Feet below ground surface***
***NC - Not Calculated - Top of casing elevation unknown, unable to calculate groundwater elevation***
***ND - Not Detected***
***NM-Not Measurable***
***NA-Not Available***

# *Table 1*
# *Well Gauge Report*
# *Former Shell Service Station #137675*

| *Well Name* | *Date* | *Depth to Product (ft)* | *Depth to Water (ft)* | *Product Thickness (ft)* | *Groundwater Elevation (ft)* | *Corrected GW Elevation (ft)* |
|---|---|---|---|---|---|---|
| **TF-01** | | | | | | |
| | 03/11/2010 | ND | 8.02 | ND | NC | NC |
| | 05/17/2010 | ND | 8.70 | ND | NC | NC |
| | 12/02/2010 | ND | 11.97 | ND | NC | NC |
| | 02/15/2011 | ND | 11.85 | ND | NC | NC |
| | 05/16/2011 | ND | 10.44 | ND | NC | NC |
| | 10/31/2011 | ND | 11.97 | ND | NC | NC |
| | 04/30/2012 | ND | 9.81 | ND | NC | NC |
| **TF-02** | | | | | | |
| | 04/05/2004 | ND | 4.82 | ND | NC | NC |
| | 10/05/2004 | ND | 11.46 | ND | NC | NC |
| | 01/03/2005 | ND | 11.52 | ND | NC | NC |
| | 04/13/2005 | ND | 8.73 | ND | NC | NC |
| | 11/17/2005 | ND | 10.07 | ND | NC | NC |
| | 03/30/2006 | ND | 11.29 | ND | NC | NC |
| | 06/29/2006 | ND | 10.09 | ND | NC | NC |
| | 12/19/2006 | Well Not Gauged - Dry Well | | | | |
| | 01/18/2007 | ND | 11.57 | ND | NC | NC |
| | 03/06/2007 | Well Not Gauged - Dry Well | | | | |
| | 06/22/2007 | Well Not Gauged - Dry Well | | | | |
| | 09/25/2007 | Well Not Gauged - Dry Well | | | | |
| | 12/05/2007 | Well Not Gauged - Dry Well | | | | |
| | 03/25/2008 | Well Not Gauged - Dry Well | | | | |
| | 09/15/2008 | ND | 12.41 | ND | NC | NC |
| | 12/12/2008 | ND | 12.52 | ND | NC | NC |
| | 02/20/2009 | ND | 12.37 | ND | NC | NC |
| | 05/07/2009 | ND | 12.32 | ND | NC | NC |
| | 09/23/2009 | Well Not Gauged - Dry Well | | | | |
| | 12/07/2009 | ND | 11.59 | ND | NC | NC |
| | 03/11/2010 | ND | 8.37 | ND | NC | NC |
| | 05/17/2010 | ND | 9.07 | ND | NC | NC |
| | 09/27/2010 | ND | 12.42 | ND | NC | NC |
| | 12/02/2010 | ND | 12.51 | ND | NC | NC |
| | 02/14/2011 | ND | 12.26 | ND | NC | NC |
| | 05/16/2011 | ND | 10.80 | ND | NC | NC |
| | 10/31/2011 | ND | 12.33 | ND | NC | NC |
| | 02/01/2012 | ND | 11.86 | ND | NC | NC |
| | 04/30/2012 | ND | 10.15 | ND | NC | NC |

***Notes:***
***[Well Depth, Screen Interval] - Feet below ground surface***
***NC - Not Calculated - Top of casing elevation unknown, unable to calculate groundwater elevation***
***ND - Not Detected***
***NM-Not Measurable***
***NA-Not Available***

# *Table 2*
# *Summary of Groundwater Analytical Results*
# *Former Shell Service Station #137675*

| *Sample Date* | *Benzene (µg/L)* | *Toluene (µg/L)* | *Ethylbenzene (µg/L)* | *Total Xylenes (µg/L)* | *Total BTEX (µg/L)* | *MTBE (µg/L)* | *TBA (µg/L)* | *TPH-GRO (µg/L)* | *TPH-DRO (µg/L)* |
|---|---|---|---|---|---|---|---|---|---|
| **710 BNR** | | | | | | | | | |
| 10/18/2003 | ND | ND | ND | ND | ND | 3.2 | ND | NS | NS |
| 11/20/2003 | ND | ND | ND | ND | ND | 1.8 | ND | ND | ND |
| 02/13/2004 | ND | ND | ND | ND | ND | 3.6 | ND | ND | ND |
| 10/22/2004 | ND | ND | ND | ND | ND | 5.5 | ND | ND | ND |
| 12/08/2004 | ND | ND | ND | ND | ND | 4.5 | ND | ND | ND |
| 03/31/2005 | ND | ND | ND | NS | ND | 6.5 | NS | ND | ND |
| 06/23/2005 | ND | ND | ND | ND | ND | 4.2 | ND | ND | ND |
| 08/17/2005 | ND | ND | ND | ND | ND | 4.9 | ND | ND | ND |
| 11/17/2005 | ND | ND | ND | ND | ND | 6.3 | NS | ND | ND |
| 03/30/2006 | ND | ND | ND | ND | ND | 3.56 | NS | ND | ND |
| 06/29/2006 | ND | ND | ND | ND | ND | 6.04 | NS | ND | ND |
| 09/26/2006 | ND(1.0) | ND(1.0) | ND(1.0) | ND(2.0) | ND(5.0) | 5.54 | NS | ND(100) | ND(93.9) |
| 12/28/2006 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 6.18 | NS | ND(100) | ND(93.9) |
| 03/26/2007 | ND(1.0) | ND(2.0) | ND(2.0) | ND(6.0) | ND(11) | 5.0 | NS | ND(100) | 160 |
| 06/08/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 5.9 | NS | ND(100) | ND(98) |
| 09/13/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 5.71 | ND(20) | ND(100) | ND(95.2) |
| 12/03/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 7.26 | NS | ND(100) | 2710 |
| 03/27/2008 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 4.0 | NS | ND(100) | ND(50) |
| 06/24/2008 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 4.0 | NS | ND(100) | 230 |
| 09/22/2008 | ND(0.2105) | ND(0.1601) | ND(0.1959) | ND | ND(0.5665) | 5.415 | NS | 120 | 4000 |
| 12/12/2008 | ND(0.2105) | ND(0.1601) | ND(0.1959) | ND(0.6946) | ND(1.2611) | ND(0.2562) | NS | ND(25) | 21.0 I |
| 02/20/2009 | ND(0.2105) | ND(0.1601) | ND(0.1959) | ND(0.6946) | ND(1.2611) | 5.54 | ND(2.0) | ND(25) | 1400 |
| 06/04/2009 | ND(0.2105) | 2.01 | ND(0.1959) | ND(0.231) | 2.01 | 3.35 I | NS | ND(25) | ND(25) |
| 09/10/2009 | ND(0.2) | ND(0.2) | ND(0.2) | ND(0.2) | ND(0.8) | 3.26 | ND(15) | ND(13) | ND(36) |
| 12/02/2009 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.298) | ND(0.952) | 5.13 | NS | 27.0 I | ND(36) |
| 03/15/2010 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.298) | ND(0.952) | 1.7 | NS | ND(25) | 79.0 |
| 06/11/2010 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 3.3 | NS | ND(200) | ND(100) |
| 08/27/2010 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 2.6 | ND(25) | ND(200) | ND(110) |
| 11/16/2010 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 2.4 | NS | ND(200) | ND(100) |
| 02/18/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 2.0 | NS | ND(200) | ND(100) |
| 05/19/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 1.8 | NS | ND(200) | 211 |
| 08/09/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 1.6 | NS | ND(200) | ND(100) |
| 11/02/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 1.4 | NS | ND(200) | ND(100) |
| 02/02/2012 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 1.3 | ND(25) | NS | NS |
| 05/02/2012 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 1.2 | ND(25) | ND(200) | ND(110) |

***BTEX - Benzene, Toluene, Ethylbenzene, Xylenes***
***MTBE - Methyl tert-Butyl Ether***
***TBA - Tertiary Butyl Alcohol***
***TPH-GRO - Total Petroleum Hydrocarbons Gasoline Range Organics***
***TPH-DRO - Total Petroleum Hydrocarbons Diesel Range Organics***

***ND - Not Detected (Reporting Limit Not Available)***
***ND (100) - Not Detected (Reporting Limit)***
***NS - Not Sampled***
***I - Results between Reporting Limit and Method Detection Limit***
***J - Estimated Value***

***(µg/L) - micrograms per Liter***

# *Table 2*
# *Summary of Groundwater Analytical Results*
# *Former Shell Service Station #137675*

| *Sample Date* | *Benzene (µg/L)* | *Toluene (µg/L)* | *Ethylbenzene (µg/L)* | *Total Xylenes (µg/L)* | *Total BTEX (µg/L)* | *MTBE (µg/L)* | *TBA (µg/L)* | *TPH-GRO (µg/L)* | *TPH-DRO (µg/L)* |
|---|---|---|---|---|---|---|---|---|---|
| **711 BNR** | | | | | | | | | |
| 10/03/2003 | ND | ND | ND | ND | ND | ND | ND | NS | NS |
| 11/21/2003 | ND | ND | ND | ND | ND | 0.46 | ND | ND | ND |
| 02/13/2004 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 09/26/2006 | ND(1.0) | ND(1.0) | ND(1.0) | ND(2.0) | ND(5.0) | 1.04 | NS | ND(100) | ND(93.9) |
| 12/28/2006 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 1.47 | NS | ND(100) | ND(94.3) |
| 03/26/2007 | ND(1.0) | ND(2.0) | ND(2.0) | ND(6.0) | ND(11) | ND(2.0) | NS | ND(100) | ND(100) |
| 06/08/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 1.04 | NS | ND(100) | ND(118) |
| 09/13/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 1.71 | ND(20) | ND(100) | ND(95.2) |
| 12/03/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 3.05 | NS | ND(100) | ND(94.3) |
| 03/27/2008 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 1.0 | NS | ND(100) | ND(50) |
| 06/24/2008 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | ND(1.0) | NS | ND(100) | ND(50) |
| 09/22/2008 | ND(0.2105) | ND(0.1601) | ND(0.1959) | ND | ND(0.5665) | ND(0.2562) | NS | ND(20) | 53.0 I |
| 12/12/2008 | ND(0.2105) | ND(0.1601) | ND(0.1959) | 0.81 | 0.81 | ND(0.2562) | NS | ND(25) | 14.0 I |
| 02/20/2009 | ND(0.2105) | ND(0.1601) | ND(0.1959) | ND(0.6946) | ND(1.2611) | 1.19 I | ND(2.0) | ND(25) | 26.0 I |
| 06/04/2009 | ND(0.2105) | 1.21 | ND(0.1959) | ND(0.231) | 1.21 | ND(0.2562) | NS | ND(25) | ND(25) |
| 09/10/2009 | ND(0.2) | ND(0.2) | ND(0.2) | ND(0.2) | ND(0.8) | 0.47 I | ND(15) | ND(13) | ND(36) |
| 12/02/2009 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.298) | ND(0.952) | 0.80 I | NS | ND(25) | ND(36) |
| 03/15/2010 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.298) | ND(0.952) | ND(0.261) | NS | ND(25) | 40.0 |
| 06/11/2010 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | ND(1.0) | NS | ND(200) | ND(100) |
| 08/27/2010 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | ND(1.0) | ND(25) | ND(200) | ND(100) |
| 11/16/2010 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 0.50 J | NS | ND(200) | ND(110) |
| 02/18/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 0.44 J | NS | ND(200) | ND(120) |
| 05/19/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 0.37 J | NS | ND(200) | 243 |
| 08/09/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | ND(1.0) | NS | ND(200) | ND(110) |
| 11/02/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | ND(1.0) | NS | ND(200) | ND(100) |
| 02/02/2012 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | ND(1.0) | ND(25) | NS | NS |
| 05/02/2012 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | ND(1.0) | ND(25) | ND(200) | ND(100) |
| **720 BNR** | | | | | | | | | |
| 10/18/2003 | ND | ND | ND | ND | ND | 21.0 | ND | NS | NS |
| 11/20/2003 | ND | ND | ND | ND | ND | 27.7 | ND | ND | ND |
| 12/23/2003 | ND | ND | ND | ND | ND | 23.0 | ND | ND | ND |
| 01/16/2004 | ND | ND | ND | ND | ND | 22.0 | NS | ND | ND |
| 02/13/2004 | ND | ND | ND | ND | ND | 26.7 | ND | ND | ND |
| 03/02/2004 | ND | ND | ND | ND | ND | 28.9 | ND | ND | ND |
| 03/25/2004 | ND | ND | ND | ND | ND | 25.2 | ND | ND | ND |

***BTEX - Benzene, Toluene, Ethylbenzene, Xylenes***
***MTBE - Methyl tert-Butyl Ether***
***TBA - Tertiary Butyl Alcohol***
***TPH-GRO - Total Petroleum Hydrocarbons Gasoline Range Organics***
***TPH-DRO - Total Petroleum Hydrocarbons Diesel Range Organics***

***ND - Not Detected (Reporting Limit Not Available)***
***ND (100) - Not Detected (Reporting Limit)***
***NS - Not Sampled***
***I - Results between Reporting Limit and Method Detection Limit***
***J - Estimated Value***

***(µg/L) - micrograms per Liter***

# *Table 2*
# *Summary of Groundwater Analytical Results*
# *Former Shell Service Station #137675*

| *Sample Date* | *Benzene (µg/L)* | *Toluene (µg/L)* | *Ethylbenzene (µg/L)* | *Total Xylenes (µg/L)* | *Total BTEX (µg/L)* | *MTBE (µg/L)* | *TBA (µg/L)* | *TPH-GRO (µg/L)* | *TPH-DRO (µg/L)* |
|---|---|---|---|---|---|---|---|---|---|
| **720 BNR** | | | | | | | | | |
| 04/16/2004 | ND | ND | ND | ND | ND | 26.6 | ND | ND | ND |
| 05/26/2004 | ND | ND | ND | ND | ND | 27.1 | ND | ND | ND |
| 06/22/2004 | ND | ND | ND | ND | ND | 24.8 | ND | ND | ND |
| 08/26/2004 | ND | ND | ND | ND | ND | 25.0 | ND | ND | ND |
| 10/22/2004 | ND | ND | ND | ND | ND | 15.6 | ND | ND | ND |
| 12/08/2004 | ND | ND | ND | ND | ND | 12.7 | ND | ND | ND |
| 03/31/2005 | ND | ND | ND | ND | ND | 14.5 | NS | ND | ND |
| 06/23/2005 | ND | ND | ND | ND | ND | 11.5 | ND | ND | ND |
| 08/17/2005 | ND | ND | ND | ND | ND | 12.2 | ND | ND | ND |
| 11/17/2005 | ND | ND | ND | ND | ND | 13.1 | NS | ND | ND |
| 03/30/2006 | ND | ND | ND | ND | ND | 7.88 | NS | ND | ND |
| 06/29/2006 | ND | ND | ND | ND | ND | 5.68 | NS | ND | ND |
| 09/26/2006 | ND(1.0) | ND(1.0) | ND(1.0) | ND(2.0) | ND(5.0) | 3.17 | NS | ND(100) | ND(96.2) |
| 12/28/2006 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 2.59 | NS | ND(100) | ND(97.1) |
| 03/26/2007 | ND(1.0) | ND(2.0) | ND(2.0) | ND(6.0) | ND(11) | ND(2.0) | NS | ND(100) | ND(100) |
| 06/08/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | ND(1.0) | NS | ND(100) | ND(111) |
| 09/13/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | ND(1.0) | ND(20) | ND(100) | ND(100) |
| 12/03/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 1.2 | NS | ND(100) | ND(100) |
| 03/27/2008 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | ND(1.0) | NS | ND(100) | ND(50) |
| 06/24/2008 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | ND(1.0) | NS | ND(100) | ND(50) |
| 09/22/2008 | ND(0.2105) | ND(0.1601) | ND(0.1959) | ND | ND(0.5665) | ND(0.2562) | NS | ND(20) | 49.0 I |
| 12/12/2008 | ND(0.2105) | ND(0.1601) | ND(0.1959) | 0.53 | 0.53 | ND(0.2562) | NS | ND(25) | ND(14) |
| 02/20/2009 | ND(0.2105) | ND(0.1601) | ND(0.1959) | ND(0.6946) | ND(1.2611) | ND(0.2562) | ND(2.0) | ND(25) | ND(25) |
| 06/04/2009 | ND(0.2105) | 4.62 | ND(0.1959) | ND(0.231) | 4.62 | ND(0.2562) | NS | 41.0 I | ND(26) |
| 09/10/2009 | ND(0.2) | ND(0.2) | ND(0.2) | ND(0.2) | ND(0.8) | 0.56 | ND(15) | ND(13) | ND(36) |
| 12/02/2009 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.298) | ND(0.952) | 0.77 I | NS | 31.0 I | ND(36) |
| 03/15/2010 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.298) | ND(0.952) | ND(0.261) | NS | ND(25) | 117 |
| 06/11/2010 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 0.77 J | NS | ND(200) | ND(100) |
| 08/27/2010 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 0.54 J | ND(25) | ND(200) | ND(110) |
| 11/16/2010 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 0.48 J | NS | ND(200) | ND(120) |
| 02/18/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | ND(1.0) | NS | ND(200) | 137 |
| 05/19/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 0.30 J | ND(25) | ND(200) | ND(130) |
| 08/09/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 0.34 J | NS | ND(200) | ND(100) |
| 11/02/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 0.30 J | NS | ND(200) | ND(100) |
| 02/02/2012 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 0.35 J | ND(25) | NS | NS |

*BTEX - Benzene, Toluene, Ethylbenzene, Xylenes*
*MTBE - Methyl tert-Butyl Ether*
*TBA - Tertiary Butyl Alcohol*
*TPH-GRO - Total Petroleum Hydrocarbons Gasoline Range Organics*
*TPH-DRO - Total Petroleum Hydrocarbons Diesel Range Organics*

*ND - Not Detected (Reporting Limit Not Available)*
*ND (100) - Not Detected (Reporting Limit)*
*NS - Not Sampled*
*I - Results between Reporting Limit and Method Detection Limit*
*J - Estimated Value*

*(µg/L) - micrograms per Liter*

# *Table 2*
# *Summary of Groundwater Analytical Results*
# *Former Shell Service Station #137675*

| *Sample Date* | *Benzene (µg/L)* | *Toluene (µg/L)* | *Ethylbenzene (µg/L)* | *Total Xylenes (µg/L)* | *Total BTEX (µg/L)* | *MTBE (µg/L)* | *TBA (µg/L)* | *TPH-GRO (µg/L)* | *TPH-DRO (µg/L)* |
|---|---|---|---|---|---|---|---|---|---|
| **720 BNR** | | | | | | | | | |
| 05/02/2012 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 0.40 J | ND(25) | ND(200) | ND(100) |
| **721 BNR** | | | | | | | | | |
| 10/03/2003 | ND | ND | ND | ND | ND | 2.5 | NS | NS | NS |
| 11/20/2003 | ND | ND | ND | ND | ND | 2.8 | ND | ND | ND |
| 12/23/2003 | ND | ND | ND | ND | ND | 2.7 | ND | ND | ND |
| 01/16/2004 | ND | ND | ND | ND | ND | 2.6 | ND | ND | ND |
| 02/13/2004 | ND | ND | ND | ND | ND | 3.0 | ND | ND | ND |
| 03/02/2004 | ND | ND | ND | ND | ND | 3.2 | ND | ND | ND |
| 03/25/2004 | ND | ND | ND | ND | ND | 3.0 | ND | ND | ND |
| 04/16/2004 | ND | ND | ND | ND | ND | 3.0 | ND | ND | ND |
| 06/24/2004 | ND | NS | NS | ND | ND | 3.6 | NS | ND | NS |
| 10/22/2004 | ND | ND | ND | ND | ND | 4.8 | ND | ND | ND |
| 12/08/2004 | ND | ND | ND | ND | ND | 3.7 | ND | ND | ND |
| 03/31/2005 | ND | ND | ND | ND | ND | 4.4 | NS | ND | ND |
| 06/23/2005 | ND | ND | ND | ND | ND | 2.6 | ND | ND | ND |
| 08/17/2005 | ND | ND | ND | ND | ND | 2.6 | ND | ND | ND |
| 11/17/2005 | ND | ND | ND | ND | ND | 2.9 | NS | ND | ND |
| 03/30/2006 | ND | ND | ND | ND | ND | 2.74 | NS | ND | ND |
| 06/29/2006 | ND | ND | ND | ND | ND | 1.74 | NS | ND | ND |
| 09/26/2006 | ND(1.0) | ND(1.0) | ND(1.0) | ND(2.0) | ND(5.0) | 1.74 | NS | ND(100) | ND(96.2) |
| 12/28/2006 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 1.28 | NS | ND(100) | ND(97.1) |
| 03/26/2007 | ND(1.0) | ND(2.0) | ND(2.0) | ND(6.0) | ND(11) | ND(2.0) | NS | ND(100) | ND(100) |
| 06/08/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | ND(1.0) | NS | ND(100) | ND(100) |
| 09/13/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | ND(1.0) | ND(20) | ND(100) | ND(105) |
| 12/03/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | ND(1.0) | NS | ND(100) | ND(100) |
| 03/27/2008 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | ND(1.0) | NS | ND(100) | ND(50) |
| 06/24/2008 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | ND(1.0) | NS | ND(100) | ND(50) |
| 09/22/2008 | ND(0.2105) | ND(0.1601) | ND(0.1959) | ND | ND(0.5665) | ND(0.2562) | NS | ND(20) | 55.0 I |
| 12/12/2008 | ND(0.2105) | ND(0.1601) | ND(0.1959) | ND(0.6946) | ND(1.2611) | ND(0.2562) | NS | ND(25) | 87 |
| 02/20/2009 | ND(0.2105) | ND(0.1601) | ND(0.1959) | ND(0.6946) | ND(1.2611) | ND(0.2562) | ND(2.0) | ND(25) | ND(25) |
| 06/04/2009 | ND(0.2105) | ND(0.1601) | ND(0.1959) | ND(0.231) | ND(0.7975) | ND(0.2562) | NS | ND(25) | ND(25) |
| 09/10/2009 | ND(0.2) | ND(0.2) | ND(0.2) | ND(0.2) | ND(0.8) | ND(0.2) | ND(15) | ND(13) | ND(36) |
| 12/02/2009 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.298) | ND(0.952) | ND(0.261) | NS | 29.0 I | ND(36) |
| 03/15/2010 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.298) | ND(0.952) | ND(0.261) | NS | ND(25) | 113 |
| 06/11/2010 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | ND(1.0) | NS | ND(200) | ND(100) |

***BTEX - Benzene, Toluene, Ethylbenzene, Xylenes***
***MTBE - Methyl tert-Butyl Ether***
***TBA - Tertiary Butyl Alcohol***
***TPH-GRO - Total Petroleum Hydrocarbons Gasoline Range Organics***
***TPH-DRO - Total Petroleum Hydrocarbons Diesel Range Organics***

***ND - Not Detected (Reporting Limit Not Available)***
***ND (100) - Not Detected (Reporting Limit)***
***NS - Not Sampled***
***I - Results between Reporting Limit and Method Detection Limit***
***J - Estimated Value***

***(µg/L) - micrograms per Liter***

# *Table 2*
# *Summary of Groundwater Analytical Results*
# *Former Shell Service Station #137675*

| *Sample Date* | *Benzene (µg/L)* | *Toluene (µg/L)* | *Ethylbenzene (µg/L)* | *Total Xylenes (µg/L)* | *Total BTEX (µg/L)* | *MTBE (µg/L)* | *TBA (µg/L)* | *TPH-GRO (µg/L)* | *TPH-DRO (µg/L)* |
|---|---|---|---|---|---|---|---|---|---|
| **721 BNR** | | | | | | | | | |
| 08/27/2010 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | ND(1.0) | ND(25) | ND(200) | ND(100) |
| 11/16/2010 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | ND(1.0) | NS | ND(200) | ND(100) |
| 02/18/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | ND(1.0) | NS | ND(200) | ND(100) |
| 05/19/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | ND(1.0) | NS | ND(200) | ND(100) |
| 08/09/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | ND(1.0) | NS | ND(200) | ND(100) |
| 11/02/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | ND(1.0) | NS | ND(200) | ND(100) |
| 02/02/2012 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | ND(1.0) | ND(25) | NS | NS |
| 05/02/2012 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 0.21 J | ND(25) | ND(200) | ND(100) |
| **730 BND** | | | | | | | | | |
| 10/01/2010 | ND(0.249) | ND(0.201) | ND(0.21) | ND(0.676) | ND(1.336) | 3.2 | ND(6.14) | 26.0 I | 260 |
| 12/02/2010 | ND(0.249) | ND(0.201) | ND(0.21) | ND(0.676) | ND(1.336) | 2.62 | ND(6.14) | ND(25) | 60.0 I |
| 02/18/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | ND(1.0) | ND(25) | ND(200) | ND(100) |
| 05/19/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 2.6 | ND(25) | ND(200) | ND(100) |
| 08/09/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 1.6 | ND(25) | ND(200) | 190 |
| 11/02/2011 | 0.074 J | ND(0.5) | ND(0.5) | ND(0.5) | 0.074 | 0.19 J | ND(5.0) | ND(200) | ND(100) |
| 02/02/2012 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 2.7 | ND(25) | NS | NS |
| 05/03/2012 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 2.3 | ND(25) | ND(200) | ND(100) |
| **730 BNS** | | | | | | | | | |
| 10/01/2010 | ND(0.249) | ND(0.201) | ND(0.21) | ND(0.676) | ND(1.336) | 2.86 | ND(6.14) | ND(25) | 404 |
| 12/02/2010 | ND(0.249) | ND(0.201) | ND(0.21) | ND(0.676) | ND(1.336) | 1.27 | ND(6.14) | 32.0 I | ND(40) |
| 05/19/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 1.8 | ND(25) | ND(200) | ND(100) |
| 08/09/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 0.55 J | ND(25) | ND(200) | ND(100) |
| 11/02/2011 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(2.0) | 1.5 | ND(5.0) | ND(200) | ND(100) |
| 02/02/2012 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 1.4 | ND(25) | NS | NS |
| 05/03/2012 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 1.6 | ND(25) | ND(200) | ND(110) |
| **750 BND** | | | | | | | | | |
| 06/22/2005 | ND | ND | ND | ND | ND | ND | ND | ND | 664 |
| 11/17/2005 | ND | ND | ND | ND | ND | 0.59 | ND | ND | 529 |
| 03/30/2006 | ND | ND | ND | ND | ND | ND | ND | ND | NS |
| 06/29/2006 | NS | NS | ND | ND | NS | 4.79 | ND | ND | 127 |
| 09/28/2006 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 9.88 | ND(10) | ND(100) | 686 |
| 12/19/2006 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 80.6 | ND(20) | 124 | ND(100) |
| 03/06/2007 | ND(1.0) | ND(2.0) | ND(2.0) | ND(6.0) | ND(11) | 7.05 | ND(20) | ND(100) | 120 |
| 06/22/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 75.7 | ND(20) | ND(100) | 131 |
| 09/25/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 3.6 | ND(20) | ND(100) | 603 |

*BTEX - Benzene, Toluene, Ethylbenzene, Xylenes*
*MTBE - Methyl tert-Butyl Ether*
*TBA - Tertiary Butyl Alcohol*
*TPH-GRO - Total Petroleum Hydrocarbons Gasoline Range Organics*
*TPH-DRO - Total Petroleum Hydrocarbons Diesel Range Organics*

*ND - Not Detected (Reporting Limit Not Available)*
*ND (100) - Not Detected (Reporting Limit)*
*NS - Not Sampled*
*I - Results between Reporting Limit and Method Detection Limit*
*J - Estimated Value*

*(µg/L) - micrograms per Liter*

# *Table 2*
# *Summary of Groundwater Analytical Results*
# *Former Shell Service Station #137675*

| *Sample Date* | *Benzene (µg/L)* | *Toluene (µg/L)* | *Ethylbenzene (µg/L)* | *Total Xylenes (µg/L)* | *Total BTEX (µg/L)* | *MTBE (µg/L)* | *TBA (µg/L)* | *TPH-GRO (µg/L)* | *TPH-DRO (µg/L)* |
|---|---|---|---|---|---|---|---|---|---|
| **750 BND** | | | | | | | | | |
| 12/05/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 7.94 | ND(20) | ND(100) | 353 |
| 03/25/2008 | ND(5.0) | ND(5.0) | ND(5.0) | 5.6 | 5.6 | 670 | ND(100) | 820 | ND(50) |
| 06/24/2008 | ND(1.0) | ND(1.0) | ND(1.0) | 4.3 | 4.3 | 770 | 68.0 | 810 | ND(50) |
| 09/15/2008 | ND(0.16) | ND(0.14) | ND(0.19) | 5.2 | 5.2 | 900 | ND(1.0) | 480 | 78.0 I |
| 12/12/2008 | ND(0.2105) | ND(0.1601) | ND(0.1959) | 1.122 | 1.122 | 616.5 | 99.3 | 1020 | 41.0 I |
| 02/20/2009 | ND(0.2105) | 0.5379 I | ND(0.1959) | ND(0.6946) | 0.5379 | 990.1 | ND(2.0) | 561 | NS |
| 05/07/2009 | ND(0.2105) | 1.04 | ND(0.1959) | ND(0.6946) | 1.04 | 924.4 | 507 | 279 | ND(25) |
| 09/23/2009 | ND(1.05) | ND(1.24) | ND(0.98) | ND(3.48) | ND(6.75) | 214 | ND(75) | 43.0 I | ND(36) |
| 12/07/2009 | ND(4.21) | ND(4.94) | ND(3.92) | ND(13.91) | ND(26.98) | 1640 | ND(300) | 954 | 54.0 I |
| 03/11/2010 | ND(2.11) | ND(2.47) | ND(1.96) | ND(6.96) | ND(13.5) | 1660 | 208 | 1280 | 41.0 |
| 05/20/2010 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 797 | 187 | 487 | 60.0 I |
| 09/27/2010 | ND(0.249) | ND(0.201) | ND(0.21) | ND(0.676) | ND(1.336) | ND(0.46) | ND(6.14) | ND(25) | ND(36) |
| 12/02/2010 | ND(0.249) | 0.68 I | 0.28 I | 1.41 | 2.37 | 304 | 221 | 243 | 54.0 I |
| 02/17/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 1270 | ND(25) | 1380 | 155 |
| 05/19/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 967 | ND(25) | 681 | 270 |
| 08/09/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 283 | ND(25) | 373 | ND(100) |
| 11/02/2011 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(2.0) | 136 | 26.8 | ND(200) | 194 |
| 05/04/2012 | ND(5.0) | ND(5.0) | ND(5.0) | ND(5.0) | ND(20) | 958 | ND(130) | 1340 | ND(100) |
| **750 BNR** | | | | | | | | | |
| 10/03/2003 | ND | ND | ND | ND | ND | 51.0 | ND | NS | NS |
| 10/18/2003 | ND | ND | ND | ND | ND | 77.0 | ND | NS | NS |
| 11/20/2003 | ND | ND | ND | 0.23 | 0.23 | 77.9 | ND | ND | ND |
| 12/23/2003 | ND | ND | ND | 0.43 | 0.43 | 62.2 | ND | ND | ND |
| 03/02/2004 | ND | ND | ND | ND | ND | 65.1 | ND | ND | ND |
| 03/25/2004 | ND | ND | ND | ND | ND | 46.8 | ND | ND | ND |
| 10/04/2004 | ND | NS | NS | ND | ND | 51.7 | NS | NS | NS |
| 12/08/2004 | ND | ND | ND | ND | ND | 35.7 | ND | ND | ND |
| 03/31/2005 | ND | NS | NS | NS | ND | 9.2 | NS | ND | ND |
| 06/22/2005 | ND | 0.23 | ND | ND | 0.23 | ND | ND | ND | 1430 |
| 11/17/2005 | ND | ND | ND | ND | ND | ND | ND | ND | 298 |
| 03/30/2006 | NS | NS | NS | NS | NS | NS | ND | NS | NS |
| 06/29/2006 | ND | ND | ND | ND | ND | ND | ND | ND | 126 |
| 09/26/2006 | ND(1.0) | ND(1.0) | ND(1.0) | ND(2.0) | ND(5.0) | 14.2 | NS | ND(100) | ND(99) |
| 09/28/2006 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | ND(1.0) | ND(10) | ND(100) | 115 |
| 12/19/2006 | 6.74 | 12.8 | 6.33 | 28.1 | 53.97 | ND(1.0) | ND(20) | 167 | 243 |

*BTEX - Benzene, Toluene, Ethylbenzene, Xylenes*
*MTBE - Methyl tert-Butyl Ether*
*TBA - Tertiary Butyl Alcohol*
*TPH-GRO - Total Petroleum Hydrocarbons Gasoline Range Organics*
*TPH-DRO - Total Petroleum Hydrocarbons Diesel Range Organics*

*ND - Not Detected (Reporting Limit Not Available)*
*ND (100) - Not Detected (Reporting Limit)*
*NS - Not Sampled*
*I - Results between Reporting Limit and Method Detection Limit*
*J - Estimated Value*

*(µg/L) - micrograms per Liter*

# *Table 2*
# *Summary of Groundwater Analytical Results*
# *Former Shell Service Station #137675*

| *Sample Date* | *Benzene (µg/L)* | *Toluene (µg/L)* | *Ethylbenzene (µg/L)* | *Total Xylenes (µg/L)* | *Total BTEX (µg/L)* | *MTBE (µg/L)* | *TBA (µg/L)* | *TPH-GRO (µg/L)* | *TPH-DRO (µg/L)* |
|---|---|---|---|---|---|---|---|---|---|
| **750 BNR** | | | | | | | | | |
| 03/06/2007 | ND(1.0) | ND(2.0) | ND(2.0) | ND(6.0) | ND(11) | 2.28 | ND(20) | ND(100) | 170 |
| 06/22/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 2.72 | ND(20) | ND(100) | 1720 |
| 09/25/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | ND(1.0) | ND(20) | ND(100) | ND(118) |
| 12/05/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 60.6 | ND(20) | ND(100) | ND(94.3) |
| 03/25/2008 | ND(5.0) | ND(5.0) | ND(5.0) | ND(5.0) | ND(20) | 10.0 | ND(100) | ND(100) | 160 |
| 06/24/2008 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 47.0 | 7.1 | ND(100) | 170 |
| 09/15/2008 | ND(0.16) | ND(0.14) | ND(0.19) | ND(0.71) | ND(1.2) | 21.0 | ND(1.0) | ND(20) | 140 I |
| 12/12/2008 | ND(0.2105) | ND(0.1601) | ND(0.1959) | ND(0.6946) | ND(1.2611) | 24.34 | 3.29 I | 45.0 | 69.0 |
| 02/20/2009 | ND(0.2105) | 0.8475 I | ND(0.1959) | 0.5067 | 1.3542 | 34.4 | ND(2.0) | 29.0 I | NS |
| 05/07/2009 | ND(0.2105) | 1.17 | ND(0.1959) | ND(0.6946) | 1.17 | 30.69 | ND(2.0) | ND(25) | 120 |
| 09/23/2009 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 25.1 | ND(15) | 25.0 I | 72.0 I |
| 12/07/2009 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 34.9 | ND(15) | 54.0 I | 86 I |
| 03/11/2010 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 32.0 | ND(15) | 54.0 | 46.0 |
| 05/20/2010 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 38.5 | ND(15) | 33.0 I | 106 I |
| 09/27/2010 | ND(0.249) | ND(0.201) | ND(0.21) | ND(0.676) | ND(1.336) | 41.8 | 25.3 | 45.0 I | ND(36) |
| 12/02/2010 | ND(0.249) | 0.85 I | 0.274 I | 0.689 | 1.813 | 43.6 | ND(6.14) | 48.0 I | 99 I |
| 02/17/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 38.4 | ND(25) | ND(200) | 228 |
| 05/19/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 37.9 | ND(25) | ND(200) | 472 |
| 08/09/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 42.6 | ND(25) | ND(200) | 267 |
| 11/02/2011 | ND(0.5) | 0.081 J | ND(0.5) | 0.21 J | 0.291 | 39.4 | 5.4 | ND(200) | 208 |
| 05/04/2012 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 50.5 | ND(25) | ND(200) | 122 |
| **750 BNS** | | | | | | | | | |
| 06/22/2005 | ND | ND | ND | ND | ND | ND | ND | ND | 554 |
| 11/17/2005 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 03/30/2006 | ND | ND | ND | ND | ND | 3.13 | ND | ND | NS |
| 06/29/2006 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 09/28/2006 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | ND(1.0) | ND(10) | ND(100) | NS |
| 12/19/2006 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | ND(1.0) | ND(20) | ND(100) | NS |
| 03/06/2007 | ND(1.0) | ND(2.0) | ND(2.0) | ND(6.0) | ND(11) | ND(1.0) | ND(20) | ND(100) | NS |
| 06/25/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | ND(1.0) | ND(20) | ND(100) | NS |
| 09/25/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | ND(1.0) | ND(20) | ND(100) | ND(118) |
| 12/05/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | ND(1.0) | ND(20) | ND(100) | NS |
| 03/25/2008 | ND(5.0) | ND(5.0) | ND(5.0) | ND(5.0) | ND(20) | ND(5.0) | ND(100) | ND(100) | 300 |
| 06/24/2008 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | ND(1.0) | ND(5.0) | ND(100) | 200 |
| 09/15/2008 | ND(0.16) | ND(0.14) | ND(0.19) | ND(0.71) | ND(1.2) | ND(0.18) | ND(1.0) | ND(20) | NS |

*BTEX - Benzene, Toluene, Ethylbenzene, Xylenes*
*MTBE - Methyl tert-Butyl Ether*
*TBA - Tertiary Butyl Alcohol*
*TPH-GRO - Total Petroleum Hydrocarbons Gasoline Range Organics*
*TPH-DRO - Total Petroleum Hydrocarbons Diesel Range Organics*

*ND - Not Detected (Reporting Limit Not Available)*
*ND (100) - Not Detected (Reporting Limit)*
*NS - Not Sampled*
*I - Results between Reporting Limit and Method Detection Limit*
*J - Estimated Value*

*(µg/L) - micrograms per Liter*

# *Table 2*
# *Summary of Groundwater Analytical Results*
# *Former Shell Service Station #137675*

| *Sample Date* | *Benzene (µg/L)* | *Toluene (µg/L)* | *Ethylbenzene (µg/L)* | *Total Xylenes (µg/L)* | *Total BTEX (µg/L)* | *MTBE (µg/L)* | *TBA (µg/L)* | *TPH-GRO (µg/L)* | *TPH-DRO (µg/L)* |
|---|---|---|---|---|---|---|---|---|---|
| **750 BNS** | | | | | | | | | |
| 12/12/2008 | ND(0.2105) | ND(0.1601) | ND(0.1959) | ND(0.6946) | ND(1.2611) | ND(0.2562) | ND(2.0) | ND(25) | NS |
| 02/20/2009 | ND(0.2105) | 0.7117 I | ND(0.1959) | ND(0.6946) | 0.7117 | 1.375 I | ND(2.0) | ND(25) | NS |
| 05/07/2009 | ND(0.2105) | 0.77 I | ND(0.1959) | ND(0.6946) | 0.77 | ND(0.2562) | ND(2.0) | ND(25) | 140 |
| 09/23/2009 | ND(0.211) | 0.29 I | ND(0.196) | ND(0.696) | 0.29 | 1.02 I | ND(15) | 15.0 I | ND(36) |
| 12/07/2009 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 0.94 I | ND(15) | 27.0 I | ND(36) |
| 03/11/2010 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 0.68 | ND(15) | ND(25) | 43.0 |
| 05/20/2010 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 0.83 I | ND(15) | 27.0 I | ND(36) |
| 09/27/2010 | ND(0.249) | 1.39 | ND(0.21) | ND(0.676) | 1.39 | 0.88 I | ND(6.14) | ND(25) | 83 I |
| 12/02/2010 | ND(0.249) | ND(0.201) | ND(0.21) | ND(0.676) | ND(1.336) | 0.81 I | ND(6.14) | 25.0 I | ND(40) |
| 02/17/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 0.90 J | ND(25) | ND(200) | 168 |
| 08/09/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 0.64 J | ND(25) | ND(200) | 337 |
| 11/03/2011 | NS | NS | NS | NS | NS | NS | NS | ND(200) | NS |
| 05/02/2012 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 0.77 J | ND(25) | ND(200) | NS |
| **MW-02** | | | | | | | | | |
| 01/06/2004 | ND(0.045) | ND(0.036) | ND(0.027) | ND(0.035) | ND(0.143) | 8.9 | ND(1.5) | ND(52) | ND(29) |
| 04/05/2004 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(2.0) | 6.2 | ND | ND | ND |
| 07/01/2004 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(2.0) | 4.8 | ND(5.0) | ND(200) | ND(100) |
| 10/05/2004 | ND | ND | ND | ND | ND | 4.0 | ND | ND | ND |
| 01/03/2005 | ND | ND | ND | ND | ND | 6.0 | ND | ND | ND |
| 04/13/2005 | ND | ND | ND | ND | ND | 5.9 | ND(25) | ND | ND |
| 08/17/2005 | ND | ND | ND | ND | ND | 5.5 | ND | ND | ND |
| 11/17/2005 | ND | ND | ND | ND | ND | 4.9 | ND | ND | ND |
| 03/30/2006 | ND | ND | ND | ND | ND | 2.84 | ND | ND | ND |
| 06/29/2006 | ND | ND | ND | ND | ND | 3.54 | 10.5 | ND | ND |
| 09/28/2006 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 6.1 | ND(10) | ND(100) | ND(94.3) |
| 12/19/2006 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 4.86 | ND(20) | ND(100) | ND(100) |
| 03/06/2007 | ND(1.0) | ND(2.0) | ND(2.0) | ND(6.0) | ND(11) | 6.2 | ND(20) | ND(100) | ND(100) |
| 06/22/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 6.24 | ND(20) | ND(100) | ND(97.1) |
| 09/25/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 6.41 | ND(20) | ND(100) | ND(95.2) |
| 12/05/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 12.1 | ND(20) | ND(100) | ND(105) |
| 03/25/2008 | ND(5.0) | ND(5.0) | ND(5.0) | ND(5.0) | ND(20) | 7.6 | ND(100) | ND(100) | 56.0 |
| 06/24/2008 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 4.9 | ND(5.0) | ND(100) | ND(50) |
| 09/15/2008 | ND(0.16) | ND(0.14) | ND(0.19) | ND(0.71) | ND(1.2) | ND(0.18) | ND(1.0) | ND(20) | 78.0 I |
| 12/12/2008 | ND(0.2105) | ND(0.1601) | ND(0.1959) | ND(0.6946) | ND(1.2611) | 6.398 | ND(2.0) | 34.0 I | 32.0 I |
| 02/20/2009 | ND(0.2105) | 0.5513 I | ND(0.1959) | ND(0.6946) | 0.5513 | 6.729 | ND(2.0) | ND(25) | 65.0 I |

*BTEX - Benzene, Toluene, Ethylbenzene, Xylenes*
*MTBE - Methyl tert-Butyl Ether*
*TBA - Tertiary Butyl Alcohol*
*TPH-GRO - Total Petroleum Hydrocarbons Gasoline Range Organics*
*TPH-DRO - Total Petroleum Hydrocarbons Diesel Range Organics*

*ND - Not Detected (Reporting Limit Not Available)*
*ND (100) - Not Detected (Reporting Limit)*
*NS - Not Sampled*
*I - Results between Reporting Limit and Method Detection Limit*
*J - Estimated Value*

*(µg/L) - micrograms per Liter*

# *Table 2*
# *Summary of Groundwater Analytical Results*
# *Former Shell Service Station #137675*

| *Sample Date* | *Benzene (µg/L)* | *Toluene (µg/L)* | *Ethylbenzene (µg/L)* | *Total Xylenes (µg/L)* | *Total BTEX (µg/L)* | *MTBE (µg/L)* | *TBA (µg/L)* | *TPH-GRO (µg/L)* | *TPH-DRO (µg/L)* |
|---|---|---|---|---|---|---|---|---|---|
| **MW-02** | | | | | | | | | |
| 05/07/2009 | ND(0.2105) | 0.78 I | ND(0.1959) | ND(0.6946) | 0.78 | 5.15 | ND(2.0) | ND(25) | ND(25) |
| 09/23/2009 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 2.79 | ND(15) | 43.0 I | ND(36) |
| 12/07/2009 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 2.61 | ND(15) | ND(25) | ND(36) |
| 03/11/2010 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 1.27 | ND(15) | 36.0 | ND(36) |
| 05/17/2010 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 0.71 I | ND(15) | ND(25) | NS |
| 05/20/2010 | NS | NS | NS | NS | NS | NS | NS | NS | ND(36) |
| 09/27/2010 | ND(0.249) | ND(0.201) | ND(0.21) | ND(0.676) | ND(1.336) | 0.79 I | ND(6.14) | 27.0 I | 38.0 I |
| 12/02/2010 | ND(0.249) | ND(0.201) | ND(0.21) | ND(0.676) | ND(1.336) | 159 | 313 | ND(25) | ND(36) |
| 01/11/2011 | NS | NS | NS | NS | NS | ND(1.0) | NS | NS | NS |
| 02/18/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 0.35 J | ND(25) | ND(200) | ND(100) |
| 05/20/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 0.28 J | ND(25) | ND(200) | ND(100) |
| 08/10/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 0.34 J | ND(25) | ND(200) | ND(100) |
| 11/03/2011 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(2.0) | 0.31 J | ND(5.0) | ND(200) | ND(100) |
| 05/03/2012 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | ND(1.0) | ND(25) | ND(200) | ND(100) |
| **MW-04** | | | | | | | | | |
| 01/06/2004 | 3.9 | 0.84 | ND(0.2) | 0.76 | 5.5 | 49.3 | ND(1.5) | 318 | ND(270) |
| 04/05/2004 | 1.4 | 0.17 | ND | ND | 1.57 | 30.4 | ND | ND | ND |
| 07/01/2004 | 0.73 | ND(0.5) | ND(0.5) | ND(0.5) | 0.73 | 14.4 | ND(5.0) | 224 | ND(100) |
| 10/05/2004 | ND | ND | ND | ND | ND | 1.3 | ND | ND | ND |
| 01/03/2005 | ND | ND | ND | ND | ND | 1.5 | ND | ND | ND |
| 04/13/2005 | ND | ND | ND | ND | ND | 24.7 | ND(25) | ND | ND |
| 08/17/2005 | ND | ND | ND | ND | ND | 2.4 | ND | ND | ND |
| 11/17/2005 | ND | ND | ND | ND | ND | 8.3 | ND | ND | ND |
| 03/30/2006 | ND | ND | ND | ND | ND | 2.91 | ND | ND | ND |
| 06/29/2006 | ND | ND | ND | ND | ND | 3.32 | ND | ND | ND |
| 09/28/2006 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 5.45 | ND(10) | ND(100) | ND(93.9) |
| 12/19/2006 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 5.49 | ND(20) | ND(100) | ND(101) |
| 03/06/2007 | ND(1.0) | ND(2.0) | ND(2.0) | ND(6.0) | ND(11) | 11.2 | ND(20) | ND(100) | ND(100) |
| 06/22/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 2.57 | ND(20) | ND(100) | 354 |
| 09/25/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 18.4 | ND(20) | ND(100) | 315 |
| 12/05/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 17.7 | ND(20) | ND(100) | ND(97.1) |
| 03/25/2008 | ND(5.0) | ND(5.0) | ND(5.0) | ND(5.0) | ND(20) | 9.2 | ND(100) | ND(100) | ND(50) |
| 06/24/2008 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 5.0 | ND(5.0) | ND(100) | ND(50) |
| 09/15/2008 | ND(0.16) | ND(0.14) | ND(0.19) | ND(0.71) | ND(1.2) | ND(0.18) | ND(1.0) | ND(20) | 44.0 I |
| 12/12/2008 | ND(0.2105) | ND(0.1601) | ND(0.1959) | ND(0.6946) | ND(1.2611) | 7.378 | ND(2.0) | 40.0 I | 22.59 |

***BTEX - Benzene, Toluene, Ethylbenzene, Xylenes***
***MTBE - Methyl tert-Butyl Ether***
***TBA - Tertiary Butyl Alcohol***
***TPH-GRO - Total Petroleum Hydrocarbons Gasoline Range Organics***
***TPH-DRO - Total Petroleum Hydrocarbons Diesel Range Organics***

***ND - Not Detected (Reporting Limit Not Available)***
***ND (100) - Not Detected (Reporting Limit)***
***NS - Not Sampled***
***I - Results between Reporting Limit and Method Detection Limit***
***J - Estimated Value***

***(µg/L) - micrograms per Liter***

# *Table 2*
# *Summary of Groundwater Analytical Results*
# *Former Shell Service Station #137675*

| *Sample Date* | *Benzene (µg/L)* | *Toluene (µg/L)* | *Ethylbenzene (µg/L)* | *Total Xylenes (µg/L)* | *Total BTEX (µg/L)* | *MTBE (µg/L)* | *TBA (µg/L)* | *TPH-GRO (µg/L)* | *TPH-DRO (µg/L)* |
|---|---|---|---|---|---|---|---|---|---|
| **MW-04** | | | | | | | | | |
| 02/20/2009 | ND(0.2105) | ND(0.1601) | ND(0.1959) | ND(0.6946) | ND(1.2611) | 8.12 | ND(2.0) | ND(25) | 57.0 I |
| 05/07/2009 | ND(0.2105) | 0.70 I | ND(0.1959) | ND(0.6946) | 0.70 | 5.9 | ND(2.0) | ND(25) | ND(25) |
| 09/23/2009 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 2.73 | ND(15) | 15.0 I | ND(36) |
| 12/07/2009 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 4.16 | ND(15) | 30.0 I | ND(36) |
| 03/11/2010 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 4.33 | ND(15) | 35.0 | ND(36) |
| 05/17/2010 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 3.59 | ND(15) | ND(25) | ND(36) |
| 09/27/2010 | ND(0.249) | ND(0.201) | ND(0.21) | ND(0.676) | ND(1.336) | 3.04 | ND(6.14) | 29.0 I | ND(36) |
| 12/02/2010 | ND(0.249) | ND(0.201) | ND(0.21) | ND(0.676) | ND(1.336) | 2.34 | ND(6.14) | 29.0 I | ND(40) |
| 02/18/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 3.7 | ND(25) | ND(200) | 194 |
| 05/20/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 1.6 | ND(25) | ND(200) | ND(100) |
| 08/10/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 1.3 | ND(25) | ND(200) | ND(100) |
| 11/03/2011 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(2.0) | 1.1 | ND(5.0) | ND(200) | ND(100) |
| 05/03/2012 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 1.2 | ND(25) | ND(200) | ND(100) |
| **MW-05D** | | | | | | | | | |
| 04/05/2004 | 0.30 | 0.69 | ND | ND | 0.99 | 241 | 198 | 436 | ND |
| 07/01/2004 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(2.0) | 260 | ND(5.0) | 322 | 281 |
| 10/04/2004 | ND | ND | ND | ND | ND | 12.4 | ND | ND | ND |
| 01/03/2005 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 04/13/2005 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 08/17/2005 | ND | ND | ND | ND | ND | ND | ND | ND | 100 |
| 11/17/2005 | ND | ND | ND | ND | ND | 26.2 | ND | ND | ND |
| 03/30/2006 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 06/29/2006 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 09/28/2006 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | ND(1.0) | ND(10) | ND(100) | ND(93.9) |
| 12/19/2006 | 3.11 | ND(1.0) | ND(1.0) | ND(3.0) | 3.11 | 3420 | 1850 | 2750 | ND(100) |
| 03/06/2007 | ND(1.0) | ND(2.0) | ND(2.0) | ND(6.0) | ND(11) | 1.06 | ND(20) | ND(100) | ND(100) |
| 06/22/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | ND(1.0) | ND(20) | ND(100) | ND(95.2) |
| 09/25/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | ND(1.0) | ND(20) | ND(100) | ND(95.2) |
| 12/05/2007 | ND(1.0) | 1.15 | ND(1.0) | ND(3.0) | 1.15 | 1.02 | ND(20) | ND(100) | ND(105) |
| 03/25/2008 | ND(5.0) | ND(5.0) | ND(5.0) | ND(5.0) | ND(20) | ND(5.0) | ND(100) | ND(100) | 780 |
| 06/24/2008 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 5.6 | 5.5 | ND(100) | ND(50) |
| 09/15/2008 | ND(0.16) | ND(0.14) | ND(0.19) | ND(0.71) | ND(1.2) | ND(0.18) | ND(1.0) | ND(20) | 42.0 I |
| 12/12/2008 | ND(0.2105) | ND(0.1601) | ND(0.1959) | ND(0.6946) | ND(1.2611) | 62.89 | 61.8 | 111 | 30.0 I |
| 02/20/2009 | ND(0.2105) | ND(0.1601) | ND(0.1959) | ND(0.6946) | ND(1.2611) | 135.4 | 69.2 | ND(25) | 57.0 I |
| 05/07/2009 | ND(0.2105) | 0.87 I | ND(0.1959) | ND(0.6946) | 0.87 | ND(0.2562) | ND(2.0) | ND(25) | ND(25) |

***BTEX - Benzene, Toluene, Ethylbenzene, Xylenes***
***MTBE - Methyl tert-Butyl Ether***
***TBA - Tertiary Butyl Alcohol***
***TPH-GRO - Total Petroleum Hydrocarbons Gasoline Range Organics***
***TPH-DRO - Total Petroleum Hydrocarbons Diesel Range Organics***

***ND - Not Detected (Reporting Limit Not Available)***
***ND (100) - Not Detected (Reporting Limit)***
***NS - Not Sampled***
***I - Results between Reporting Limit and Method Detection Limit***
***J - Estimated Value***

***(µg/L) - micrograms per Liter***

# *Table 2*
# *Summary of Groundwater Analytical Results*
# *Former Shell Service Station #137675*

| *Sample Date* | *Benzene (µg/L)* | *Toluene (µg/L)* | *Ethylbenzene (µg/L)* | *Total Xylenes (µg/L)* | *Total BTEX (µg/L)* | *MTBE (µg/L)* | *TBA (µg/L)* | *TPH-GRO (µg/L)* | *TPH-DRO (µg/L)* |
|---|---|---|---|---|---|---|---|---|---|
| **MW-05D** | | | | | | | | | |
| 09/23/2009 | ND(0.211) | 0.25 I | ND(0.196) | ND(0.696) | 0.25 | 0.42 I | ND(15) | ND(13) | ND(36) |
| 12/07/2009 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 5.22 | ND(15) | 27.0 I | ND(36) |
| 03/11/2010 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | ND(0.261) | ND(15) | 26.0 | 39.0 |
| 05/17/2010 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | ND(0.261) | ND(15) | 26.0 I | 325 I |
| 09/27/2010 | ND(0.249) | ND(0.201) | ND(0.21) | ND(0.676) | ND(1.336) | ND(0.46) | ND(6.14) | ND(25) | ND(36) |
| 12/02/2010 | ND(0.249) | ND(0.201) | ND(0.21) | ND(0.676) | ND(1.336) | ND(0.46) | ND(6.14) | ND(25) | ND(36) |
| 02/16/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 2.5 | ND(25) | ND(200) | ND(110) |
| 05/18/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 2.4 | ND(25) | ND(200) | ND(100) |
| 08/10/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | ND(1.0) | ND(25) | ND(200) | 342 |
| 11/01/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 0.72 J | ND(25) | ND(200) | ND(100) |
| 05/01/2012 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 0.69 J | ND(25) | ND(200) | ND(100) |
| **MW-05R** | | | | | | | | | |
| 07/08/2004 | ND(1.0) | 0.21 | ND(1.0) | ND(1.0) | 0.21 | 61.8 | 16.9 | ND(200) | ND(160) |
| 10/04/2004 | ND | ND | ND | ND | ND | 79.0 | ND | ND | 168 |
| 01/03/2005 | ND | ND | ND | ND | ND | 72.6 | ND | ND | ND |
| 04/13/2005 | ND | ND | ND | ND | ND | 69.4 | 19.7 | ND | ND |
| 08/17/2005 | ND | ND | ND | ND | ND | 60.9 | ND | ND | ND |
| 11/17/2005 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 03/30/2006 | 2.15 | ND | ND | ND | 2.15 | 3800 | 1700 | 775 | 113 |
| 06/29/2006 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 09/28/2006 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | ND(1.0) | ND(10) | ND(100) | ND(93.9) |
| 12/19/2006 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | ND(1.0) | ND(20) | ND(100) | 115 |
| 03/06/2007 | ND(1.0) | ND(2.0) | ND(2.0) | ND(6.0) | ND(11) | 1.19 | ND(20) | ND(100) | ND(100) |
| 06/22/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 2.11 | ND(20) | ND(100) | ND(94.3) |
| 09/25/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | ND(1.0) | ND(20) | ND(100) | 129 |
| 12/05/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | ND(1.0) | ND(20) | ND(100) | 120 |
| 03/25/2008 | ND(5.0) | ND(5.0) | ND(5.0) | ND(5.0) | ND(20) | ND(5.0) | ND(100) | ND(100) | 54.0 |
| 06/24/2008 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | ND(1.0) | ND(5.0) | ND(100) | ND(50) |
| 09/15/2008 | 1.0 | ND(0.14) | ND(0.19) | ND(0.71) | 1.0 | 1900 | 1800 | 880 | 92 I |
| 12/12/2008 | ND(0.2105) | ND(0.1601) | ND(0.1959) | ND(0.6946) | ND(1.2611) | ND(0.2562) | ND(2.0) | ND(25) | 36.0 I |
| 02/20/2009 | ND(0.2105) | ND(0.1601) | ND(0.1959) | ND(0.6946) | ND(1.2611) | ND(0.2562) | ND(2.0) | ND(25) | 65.0 I |
| 05/07/2009 | ND(0.2105) | 1.28 | ND(0.1959) | ND(0.6946) | 1.28 | ND(0.2562) | ND(2.0) | ND(25) | ND(25) |
| 09/23/2009 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 0.51 I | ND(15) | ND(13) | ND(36) |
| 12/07/2009 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 0.70 I | ND(15) | 26.0 I | 86 I |
| 03/11/2010 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 0.79 | ND(15) | ND(25) | ND(36) |

***BTEX - Benzene, Toluene, Ethylbenzene, Xylenes***
***MTBE - Methyl tert-Butyl Ether***
***TBA - Tertiary Butyl Alcohol***
***TPH-GRO - Total Petroleum Hydrocarbons Gasoline Range Organics***
***TPH-DRO - Total Petroleum Hydrocarbons Diesel Range Organics***

***ND - Not Detected (Reporting Limit Not Available)***
***ND (100) - Not Detected (Reporting Limit)***
***NS - Not Sampled***
***I - Results between Reporting Limit and Method Detection Limit***
***J - Estimated Value***

***(µg/L) - micrograms per Liter***

# *Table 2*
# *Summary of Groundwater Analytical Results*
# *Former Shell Service Station #137675*

| *Sample Date* | *Benzene (µg/L)* | *Toluene (µg/L)* | *Ethylbenzene (µg/L)* | *Total Xylenes (µg/L)* | *Total BTEX (µg/L)* | *MTBE (µg/L)* | *TBA (µg/L)* | *TPH-GRO (µg/L)* | *TPH-DRO (µg/L)* |
|---|---|---|---|---|---|---|---|---|---|
| **MW-05R** | | | | | | | | | |
| 05/17/2010 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | ND(0.261) | ND(15) | 540 | 217 I |
| 09/27/2010 | ND(0.249) | ND(0.201) | ND(0.21) | ND(0.676) | ND(1.336) | ND(0.46) | ND(6.14) | 28.0 I | 105 I |
| 12/02/2010 | ND(0.249) | ND(0.201) | ND(0.21) | ND(0.676) | ND(1.336) | ND(0.46) | ND(6.14) | ND(25) | ND(38) |
| 02/16/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | ND(1.0) | ND(25) | ND(200) | ND(110) |
| 05/18/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 0.59 J | ND(25) | ND(200) | ND(100) |
| 08/10/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | ND(1.0) | ND(25) | ND(200) | ND(100) |
| 11/01/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 0.27 J | ND(25) | ND(200) | ND(100) |
| 05/01/2012 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | ND(1.0) | ND(25) | ND(200) | ND(100) |
| **MW-05S** | | | | | | | | | |
| 01/06/2004 | 9.2 | 0.10 | ND(0.027) | 1.2 | 10.5 | 7630 | 3840 | 9290 | ND(29) |
| 04/05/2004 | ND | ND | ND | ND | ND | 2400 | ND | 3250 | ND |
| 07/01/2004 | 2.4 | ND(2.0) | ND(2.0) | ND(2.0) | 2.4 | 3570 | 1080 | 3930 | ND(100) |
| 10/04/2004 | ND | ND | ND | ND | ND | 7110 | ND | 9400 | ND |
| 01/03/2005 | ND | ND | ND | ND | ND | 3280 | 1830 | 3080 | ND |
| 04/13/2005 | ND | ND | ND | 0.31 | 0.31 | 1790 | 685 | 2490 | ND |
| 08/17/2005 | ND | ND | ND | ND | ND | 6.3 | ND | ND | ND |
| 11/17/2005 | ND | ND | ND | ND | ND | 3550 | 1960 | 2630 | ND |
| 03/30/2006 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 06/29/2006 | ND | ND | ND | ND | ND | 116 | 12.8 | 128 | ND |
| 09/28/2006 | 4.11 | ND(1.0) | ND(1.0) | ND(3.0) | 4.11 | 4190 | 3050 | 1170 | 113 |
| 12/19/2006 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 7.25 | ND(20) | ND(100) | ND(101) |
| 03/06/2007 | 1.7 | ND(2.0) | ND(2.0) | ND(6.0) | 1.7 | 2470 | 1620 | 2190 | ND(100) |
| 06/22/2007 | 2.07 | ND(1.0) | ND(1.0) | ND(3.0) | 2.07 | 2990 | 1520 | 3330 | ND(97.1) |
| 09/25/2007 | 1.83 | ND(1.0) | ND(1.0) | ND(3.0) | 1.83 | 2840 | 1450 | 2140 | ND(97.1) |
| 12/05/2007 | 1.69 | ND(1.0) | ND(1.0) | ND(3.0) | 1.69 | 2140 | 1420 | 1540 | ND(100) |
| 03/25/2008 | ND(5.0) | ND(5.0) | ND(5.0) | ND(5.0) | ND(20) | 1800 | NS | 2000 | ND(50) |
| 06/24/2008 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 58.0 | 55.0 | ND(100) | ND(50) |
| 09/15/2008 | ND(0.16) | ND(0.14) | ND(0.19) | ND(0.71) | ND(1.2) | 5.5 | 14.0 | ND(20) | 38.0 I |
| 12/12/2008 | 1.148 | ND(0.1601) | ND(0.1959) | ND(0.6946) | 1.148 | 1110 | 1360 | 2230 | 53.0 |
| 02/20/2009 | 4.24 | ND(0.1601) | ND(0.1959) | 1.42 | 5.66 | 3184 | 3550 | 2810 | 110 |
| 05/07/2009 | ND(0.2105) | 0.66 I | ND(0.1959) | ND(0.6946) | 0.66 | 580.3 | 590 | 161 | ND(26) |
| 09/23/2009 | ND(0.211) | 0.40 I | ND(0.196) | ND(0.696) | 0.40 | 885 | 1440 | 284 | ND(36) |
| 12/07/2009 | ND(4.21) | ND(4.94) | ND(3.92) | ND(13.91) | ND(26.98) | 1770 | 1240 | 985 | 48.0 I |
| 03/11/2010 | ND(2.11) | ND(2.47) | ND(1.96) | ND(6.96) | ND(13.5) | 1380 | 957 | 806 | ND(36) |
| 05/17/2010 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 12.8 | ND(15) | ND(25) | ND(36) |

***BTEX - Benzene, Toluene, Ethylbenzene, Xylenes***
***MTBE - Methyl tert-Butyl Ether***
***TBA - Tertiary Butyl Alcohol***
***TPH-GRO - Total Petroleum Hydrocarbons Gasoline Range Organics***
***TPH-DRO - Total Petroleum Hydrocarbons Diesel Range Organics***

***ND - Not Detected (Reporting Limit Not Available)***
***ND (100) - Not Detected (Reporting Limit)***
***NS - Not Sampled***
***I - Results between Reporting Limit and Method Detection Limit***
***J - Estimated Value***

***(µg/L) - micrograms per Liter***

# *Table 2*
# *Summary of Groundwater Analytical Results*
# *Former Shell Service Station #137675*

| *Sample Date* | *Benzene (µg/L)* | *Toluene (µg/L)* | *Ethylbenzene (µg/L)* | *Total Xylenes (µg/L)* | *Total BTEX (µg/L)* | *MTBE (µg/L)* | *TBA (µg/L)* | *TPH-GRO (µg/L)* | *TPH-DRO (µg/L)* |
|---|---|---|---|---|---|---|---|---|---|
| **MW-05S** | | | | | | | | | |
| 09/27/2010 | ND(0.249) | ND(0.201) | ND(0.21) | ND(0.676) | ND(1.336) | 2.38 | ND(6.14) | 25.0 I | ND(36) |
| 12/02/2010 | ND(0.249) | ND(0.201) | ND(0.21) | ND(0.676) | ND(1.336) | 575 | 534 | 408 | ND(36) |
| 02/15/2011 | 0.46 J | ND(1.0) | ND(1.0) | ND(1.0) | 0.46 | 1210 | 1110 | 1350 | ND(100) |
| 05/18/2011 | 0.41 J | ND(1.0) | ND(1.0) | ND(1.0) | 0.41 | 861 | 706 | 860 | ND(100) |
| 08/10/2011 | 0.31 J | ND(1.0) | ND(1.0) | 0.25 J | 0.56 | 982 | 757 | 639 | 119 |
| 11/01/2011 | 0.24 J | ND(1.0) | ND(1.0) | ND(1.0) | 0.24 | 679 | 562 | 762 | 115 |
| 05/01/2012 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 594 | 455 | 698 | ND(100) |
| **MW-06D** | | | | | | | | | |
| 04/05/2004 | ND | ND | ND | ND | ND | 5210 | ND | 6940 | 134 |
| 07/01/2004 | 1.8 | ND(2.5) | ND(2.5) | 2.5 | 4.3 | 6120 | 649 | 7370 | 179 |
| 10/04/2004 | 74.0 | ND | ND | 45.7 | 119.7 | 6190 | ND | 8080 | 156 |
| 01/03/2005 | 61.8 | ND | ND | 39.1 | 100.9 | 6850 | 1320 | 6240 | 199 |
| 04/13/2005 | 5.1 | ND | ND | 5.7 | 10.8 | 6790 | 706 | 8870 | ND |
| 08/17/2005 | ND | ND | ND | ND | ND | 2640 | ND | 2870 | ND |
| 11/17/2005 | ND | ND | ND | ND | ND | 2930 | ND | 2040 | ND |
| 03/30/2006 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 06/29/2006 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 09/28/2006 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | ND(1.0) | ND(10) | ND(100) | ND(93.9) |
| 12/19/2006 | 73.8 | ND(1.0) | ND(1.0) | 38.0 | 111.8 | 12200 | 1470 | 10100 | 165 |
| 02/02/2007 | 65.2 | ND(1.0) | ND(1.0) | 40.7 | 105.9 | 14500 | 2920 | 4830 | 295 |
| 03/06/2007 | 54.0 | ND(2.0) | ND(2.0) | 30.0 | 84 | 14300 | 1920 | 12200 | 300 |
| 06/22/2007 | 54.9 | ND(1.0) | ND(1.0) | 37.3 | 92.2 | 14700 | 1780 | 8750 | 233 |
| 09/25/2007 | 63.7 | ND(1.0) | ND(1.0) | 30.8 | 94.5 | 17900 | 10400 | 14100 | 159 |
| 12/05/2007 | 49.6 | ND(1.0) | ND(1.0) | 32.5 | 82.1 | 14000 | 2830 | 9370 | 220 |
| 03/25/2008 | 45.0 | ND(5.0) | ND(5.0) | 25.0 | 70.0 | 12000 | NS | 14000 | 770 |
| 06/24/2008 | 46.0 | ND(1.0) | ND(1.0) | 23.0 | 69.0 | 19000 | 6300 | 15000 | 260 |
| 09/15/2008 | 46.0 | ND(0.14) | ND(0.19) | 22.0 | 68.0 | 16000 | 3300 | 7100 | 190 I |
| 12/12/2008 | 45.71 | ND(0.1601) | ND(0.1959) | 20.91 | 66.62 | 15130 | 9310 | 15400 | 200 |
| 02/20/2009 | 67.31 | ND(0.1601) | ND(0.1959) | 29.47 | 96.78 | 17010 | ND(2.0) | 6740 | 170 |
| 05/07/2009 | 43.53 | 1.32 | ND(0.1959) | 11.92 | 56.77 | 16530 | 12000 | 3750 | 110 |
| 09/23/2009 | 38.2 | ND(0.247) | ND(0.196) | 2.13 | 40.33 | 13800 | 6260 | 6810 | 113 I |
| 12/07/2009 | 55.0 I | ND(49.4) | ND(39.2) | ND(139.1) | 55.0 | 15900 | ND(3000) | 8090 | 199 I |
| 03/11/2010 | 38.0 | ND(24.7) | ND(19.6) | ND(69.6) | 38.0 | 17400 | 4190 | 11000 | 116 |
| 05/17/2010 | 31.0 I | ND(12.4) | ND(9.8) | ND(34.8) | 31.0 | 14000 | 5300 | 11100 | 225 I |
| 09/27/2010 | 34.2 | ND(0.201) | ND(0.21) | 1.69 | 35.89 | 13200 | 13900 | 10600 | 60.0 I |

***BTEX - Benzene, Toluene, Ethylbenzene, Xylenes***
***MTBE - Methyl tert-Butyl Ether***
***TBA - Tertiary Butyl Alcohol***
***TPH-GRO - Total Petroleum Hydrocarbons Gasoline Range Organics***
***TPH-DRO - Total Petroleum Hydrocarbons Diesel Range Organics***

***ND - Not Detected (Reporting Limit Not Available)***
***ND (100) - Not Detected (Reporting Limit)***
***NS - Not Sampled***
***I - Results between Reporting Limit and Method Detection Limit***
***J - Estimated Value***

***(µg/L) - micrograms per Liter***

# *Table 2*
# *Summary of Groundwater Analytical Results*
# *Former Shell Service Station #137675*

| *Sample Date* | *Benzene (µg/L)* | *Toluene (µg/L)* | *Ethylbenzene (µg/L)* | *Total Xylenes (µg/L)* | *Total BTEX (µg/L)* | *MTBE (µg/L)* | *TBA (µg/L)* | *TPH-GRO (µg/L)* | *TPH-DRO (µg/L)* |
|---|---|---|---|---|---|---|---|---|---|
| **MW-06D** | | | | | | | | | |
| 12/06/2010 | ND(24.9) | ND(20.1) | ND(21) | ND(67.6) | ND(133.6) | 9240 | 2480 I | 11900 | 95 I |
| 02/16/2011 | 11.4 | ND(10) | ND(10) | ND(10) | 11.4 | 6810 | 2000 | 6700 | 135 |
| 05/18/2011 | 7.0 J | ND(10) | ND(10) | ND(10) | 7.0 | 4060 | 1630 | 4150 | ND(100) |
| 08/12/2011 | 3.1 J | ND(5.0) | ND(5.0) | ND(5.0) | 3.1 | 3120 | 779 | 3340 | ND(100) |
| 11/02/2011 | 5.7 | ND(2.0) | ND(2.0) | 0.44 J | 6.14 | 3950 | 1490 | 1520 | ND(100) |
| 05/02/2012 | 1.4 J | ND(2.5) | ND(2.5) | ND(2.5) | 1.4 | 2100 | 447 | 2420 | ND(100) |
| **MW-06R** | | | | | | | | | |
| 07/08/2004 | ND(1.0) | 76.6 | ND(1.0) | ND(1.0) | 76.6 | 74.9 | ND(25) | 289 | 160 |
| 10/04/2004 | 0.32 | 1.4 | ND | ND | 1.72 | 83.5 | ND | ND | 144 |
| 01/03/2005 | ND | ND | ND | ND | ND | 82.8 | ND | ND | 253 |
| 04/13/2005 | ND | ND | ND | ND | ND | 70.7 | ND | ND | 163 |
| 08/17/2005 | ND | ND | ND | ND | ND | 65.7 | ND | ND | ND |
| 11/17/2005 | ND | ND | ND | ND | ND | 70.4 | ND | ND | 183 |
| 03/30/2006 | ND | ND | ND | ND | ND | 6.95 | ND | ND | NS |
| 06/29/2006 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 09/28/2006 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 1.82 | 10.2 | ND(100) | ND(94.3) |
| 12/19/2006 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 2.29 | ND(20) | ND(100) | 178 |
| 03/06/2007 | ND(1.0) | ND(2.0) | ND(2.0) | ND(6.0) | ND(11) | ND(1.0) | ND(20) | ND(100) | 110 |
| 06/22/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 36.6 | ND(20) | ND(100) | 106 |
| 09/25/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 68.5 | ND(20) | ND(100) | ND(98) |
| 12/05/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | ND(1.0) | ND(20) | ND(100) | ND(94.3) |
| 03/25/2008 | ND(5.0) | ND(5.0) | ND(5.0) | ND(5.0) | ND(20) | 7.7 | ND(100) | ND(100) | 2300 |
| 06/24/2008 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 18.0 | ND(5.0) | ND(100) | 250 |
| 09/15/2008 | ND(0.16) | ND(0.14) | ND(0.19) | ND(0.71) | ND(1.2) | 32.0 | ND(1.0) | ND(20) | 57.0 I |
| 12/12/2008 | ND(0.2105) | ND(0.1601) | ND(0.1959) | ND(0.6946) | ND(1.2611) | 3.067 I | ND(2.0) | 29.0 I | 44.0 I |
| 02/20/2009 | ND(0.2105) | ND(0.1601) | ND(0.1959) | ND(0.6946) | ND(1.2611) | 20.37 | ND(2.0) | ND(25) | 110 I |
| 05/07/2009 | ND(0.2105) | 1.28 | ND(0.1959) | ND(0.6946) | 1.28 | ND(0.2562) | ND(2.0) | ND(25) | 90 I |
| 09/23/2009 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 37.4 | ND(15) | ND(13) | ND(36) |
| 12/07/2009 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 81.4 | ND(15) | 78.0 I | ND(36) |
| 03/11/2010 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 67.6 | ND(15) | 32.0 | 46.0 |
| 05/17/2010 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 92.4 | ND(15) | 54.0 I | 39.0 I |
| 09/27/2010 | ND(0.249) | ND(0.201) | ND(0.21) | ND(0.676) | ND(1.336) | 129 | 132 | 133 | 40.0 I |
| 12/06/2010 | ND(0.249) | ND(0.201) | ND(0.21) | ND(0.676) | ND(1.336) | 112 | ND(6.14) | 85 I | ND(36) |
| 02/16/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 37.2 | ND(25) | ND(200) | 264 |
| 05/18/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 45.2 | ND(25) | ND(200) | 121 |

***BTEX - Benzene, Toluene, Ethylbenzene, Xylenes***
***MTBE - Methyl tert-Butyl Ether***
***TBA - Tertiary Butyl Alcohol***
***TPH-GRO - Total Petroleum Hydrocarbons Gasoline Range Organics***
***TPH-DRO - Total Petroleum Hydrocarbons Diesel Range Organics***

***ND - Not Detected (Reporting Limit Not Available)***
***ND (100) - Not Detected (Reporting Limit)***
***NS - Not Sampled***
***I - Results between Reporting Limit and Method Detection Limit***
***J - Estimated Value***

***(µg/L) - micrograms per Liter***

# *Table 2*
# *Summary of Groundwater Analytical Results*
# *Former Shell Service Station #137675*

| *Sample Date* | *Benzene (µg/L)* | *Toluene (µg/L)* | *Ethylbenzene (µg/L)* | *Total Xylenes (µg/L)* | *Total BTEX (µg/L)* | *MTBE (µg/L)* | *TBA (µg/L)* | *TPH-GRO (µg/L)* | *TPH-DRO (µg/L)* |
|---|---|---|---|---|---|---|---|---|---|
| **MW-06R** | | | | | | | | | |
| 08/12/2011 | ND(1.0) | 0.26 J | ND(1.0) | ND(1.0) | 0.26 | 57.6 | ND(25) | ND(200) | ND(100) |
| 11/01/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 0.60 J | ND(25) | ND(200) | ND(100) |
| 05/02/2012 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 63.1 | ND(25) | ND(200) | ND(100) |
| **MW-06S** | | | | | | | | | |
| 01/06/2004 | ND(0.045) | ND(0.036) | ND(0.34) | ND(0.035) | ND(0.456) | 135 | ND(1.5) | ND(52) | ND(27) |
| 04/05/2004 | ND | ND | ND | ND | ND | 291 | ND | 392 | ND |
| 07/01/2004 | 0.57 | ND(0.5) | ND(0.5) | 0.40 | 0.97 | 521 | 28.7 | 566 | ND(100) |
| 10/04/2004 | ND | ND | ND | ND | ND | 500 | ND | 625 | ND |
| 01/03/2005 | ND | ND | ND | ND | ND | 495 | 26.6 | 502 | ND |
| 04/13/2005 | ND | ND | ND | ND | ND | 74.9 | ND | ND | ND |
| 08/17/2005 | ND | ND | ND | ND | ND | 545 | ND | 626 | ND |
| 11/17/2005 | ND | ND | ND | ND | ND | 244 | ND | 463 | ND |
| 03/30/2006 | ND | ND | ND | ND | ND | 179 | ND | 135 | ND |
| 06/29/2006 | ND | ND | ND | ND | ND | 40.7 | ND | ND | ND |
| 09/28/2006 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 936 | 97.2 | 290 | ND(93.9) |
| 12/19/2006 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 128 | ND(20) | 113 | ND(105) |
| 03/06/2007 | ND(1.0) | ND(2.0) | ND(2.0) | ND(6.0) | ND(11) | 38.0 | ND(20) | ND(100) | ND(100) |
| 06/22/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 47.4 | ND(20) | ND(100) | ND(97.1) |
| 03/25/2008 | ND(5.0) | ND(5.0) | ND(5.0) | ND(5.0) | ND(20) | 46.0 | ND(100) | ND(100) | 60.0 |
| 06/24/2008 | 6.5 | ND(1.0) | ND(1.0) | 2.4 | 8.9 | 2300 | 450 | 2200 | ND(50) |
| 09/15/2008 | ND(0.16) | ND(0.14) | ND(0.19) | ND(0.71) | ND(1.2) | 130 | ND(1.0) | 130 | 49.0 I |
| 05/07/2009 | ND(0.2105) | 1.56 | ND(0.1959) | ND(0.6946) | 1.56 | 10.17 | ND(2.0) | ND(25) | ND(25) |
| 09/23/2009 | ND(0.211) | 0.28 I | ND(0.196) | ND(0.696) | 0.28 | 150 | 65.5 | ND(13) | ND(36) |
| 12/07/2009 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 423 | ND(15) | 192 | ND(36) |
| 03/11/2010 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 3.6 | ND(15) | ND(25) | 48.0 |
| 05/17/2010 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 20.5 | ND(15) | 27.0 I | ND(36) |
| 09/27/2010 | ND(0.249) | ND(0.201) | ND(0.21) | ND(0.676) | ND(1.336) | 146 | 95.2 | 127 | 67.0 I |
| 12/06/2010 | ND(1.25) | ND(1.01) | ND(1.05) | ND(3.39) | ND(6.7) | 320 | ND(30.7) | 216 | ND(36) |
| 05/19/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 16.4 | ND(25) | ND(200) | ND(100) |
| 11/02/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 29.1 | ND(25) | ND(200) | NS |
| 05/02/2012 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 0.92 J | ND(25) | NS | NS |
| **MW-07D** | | | | | | | | | |
| 04/05/2004 | ND | ND | ND | ND | ND | 9.5 | ND | ND | ND |
| 07/01/2004 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(2.0) | 8.4 | ND(5.0) | ND(200) | ND(100) |
| 10/04/2004 | ND | ND | ND | ND | ND | 7.8 | ND | ND | ND |

*BTEX - Benzene, Toluene, Ethylbenzene, Xylenes*
*MTBE - Methyl tert-Butyl Ether*
*TBA - Tertiary Butyl Alcohol*
*TPH-GRO - Total Petroleum Hydrocarbons Gasoline Range Organics*
*TPH-DRO - Total Petroleum Hydrocarbons Diesel Range Organics*

*ND - Not Detected (Reporting Limit Not Available)*
*ND (100) - Not Detected (Reporting Limit)*
*NS - Not Sampled*
*I - Results between Reporting Limit and Method Detection Limit*
*J - Estimated Value*

*(µg/L) - micrograms per Liter*

# *Table 2*
# *Summary of Groundwater Analytical Results*
# *Former Shell Service Station #137675*

| *Sample Date* | *Benzene (µg/L)* | *Toluene (µg/L)* | *Ethylbenzene (µg/L)* | *Total Xylenes (µg/L)* | *Total BTEX (µg/L)* | *MTBE (µg/L)* | *TBA (µg/L)* | *TPH-GRO (µg/L)* | *TPH-DRO (µg/L)* |
|---|---|---|---|---|---|---|---|---|---|
| **MW-07D** | | | | | | | | | |
| 01/03/2005 | ND | ND | ND | ND | ND | 6.2 | ND | ND | ND |
| 04/13/2005 | ND | ND | ND | ND | ND | 0.75 | ND | ND | ND |
| 08/17/2005 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 11/17/2005 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 03/30/2006 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 06/29/2006 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 09/28/2006 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | ND(1.0) | ND(10) | ND(100) | ND(93.9) |
| 12/19/2006 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | ND(1.0) | ND(20) | ND(100) | ND(100) |
| 03/06/2007 | ND(1.0) | ND(2.0) | ND(2.0) | ND(6.0) | ND(11) | ND(1.0) | ND(20) | ND(100) | ND(60) |
| 06/22/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | ND(1.0) | ND(20) | ND(100) | ND(95.2) |
| 09/25/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | ND(1.0) | ND(20) | ND(100) | ND(98) |
| 12/05/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | ND(1.0) | ND(20) | ND(100) | 125 |
| 03/25/2008 | ND(5.0) | ND(5.0) | ND(5.0) | ND(5.0) | ND(20) | ND(5.0) | ND(100) | ND(100) | 5800 |
| 06/24/2008 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | ND(1.0) | ND(5.0) | ND(100) | ND(50) |
| 09/15/2008 | ND(0.16) | ND(0.14) | ND(0.19) | ND(0.71) | ND(1.2) | ND(0.18) | ND(1.0) | ND(20) | 110 I |
| 12/12/2008 | ND(0.2105) | ND(0.1601) | ND(0.1959) | ND(0.6946) | ND(1.2611) | 0.8438 I | ND(2.0) | ND(25) | 39.0 I |
| 02/20/2009 | ND(0.2105) | ND(0.1601) | ND(0.1959) | ND(0.6946) | ND(1.2611) | ND(0.2562) | ND(2.0) | ND(25) | 85 I |
| 05/07/2009 | ND(0.2105) | 1.81 | ND(0.1959) | ND(0.6946) | 1.81 | ND(0.2562) | ND(2.0) | ND(25) | ND(25) |
| 09/23/2009 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | ND(0.261) | ND(15) | ND(13) | ND(36) |
| 12/07/2009 | ND(0.211) | 0.49 I | ND(0.196) | ND(0.696) | 0.49 | 0.56 I | ND(15) | 28.0 I | 131 I |
| 03/11/2010 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 0.71 | ND(15) | 33.0 | NS |
| 05/17/2010 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 0.64 I | ND(15) | ND(25) | 36.0 I |
| 09/27/2010 | ND(0.249) | ND(0.201) | ND(0.21) | ND(0.676) | ND(1.336) | ND(0.46) | ND(6.14) | ND(25) | 121 I |
| 12/02/2010 | ND(0.249) | ND(0.201) | ND(0.21) | ND(0.676) | ND(1.336) | ND(0.46) | ND(6.14) | ND(25) | ND(36) |
| 02/16/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | ND(1.0) | ND(25) | ND(200) | ND(110) |
| 05/18/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | ND(1.0) | ND(25) | ND(200) | ND(100) |
| 08/10/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | ND(1.0) | ND(25) | ND(200) | ND(100) |
| 11/01/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | ND(1.0) | ND(25) | ND(200) | ND(100) |
| 05/02/2012 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | ND(1.0) | ND(25) | ND(200) | ND(100) |
| **MW-07S** | | | | | | | | | |
| 04/05/2004 | ND | ND | ND | ND | ND | 189 | ND | ND | ND |
| 07/01/2004 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(2.0) | 195 | ND(5.0) | 237 | ND(100) |
| 10/04/2004 | ND | ND | ND | ND | ND | 214 | ND | 276 | ND |
| 01/03/2005 | ND | ND | ND | ND | ND | 244 | ND | 232 | ND |
| 04/13/2005 | ND | ND | ND | ND | ND | 149 | ND | 208 | ND |

***BTEX - Benzene, Toluene, Ethylbenzene, Xylenes***
***MTBE - Methyl tert-Butyl Ether***
***TBA - Tertiary Butyl Alcohol***
***TPH-GRO - Total Petroleum Hydrocarbons Gasoline Range Organics***
***TPH-DRO - Total Petroleum Hydrocarbons Diesel Range Organics***

***ND - Not Detected (Reporting Limit Not Available)***
***ND (100) - Not Detected (Reporting Limit)***
***NS - Not Sampled***
***I - Results between Reporting Limit and Method Detection Limit***
***J - Estimated Value***

***(µg/L) - micrograms per Liter***

# *Table 2*
# *Summary of Groundwater Analytical Results*
# *Former Shell Service Station #137675*

| *Sample Date* | *Benzene (µg/L)* | *Toluene (µg/L)* | *Ethylbenzene (µg/L)* | *Total Xylenes (µg/L)* | *Total BTEX (µg/L)* | *MTBE (µg/L)* | *TBA (µg/L)* | *TPH-GRO (µg/L)* | *TPH-DRO (µg/L)* |
|---|---|---|---|---|---|---|---|---|---|
| **MW-07S** | | | | | | | | | |
| 08/17/2005 | ND | ND | ND | ND | ND | 50.0 | ND | ND | ND |
| 11/17/2005 | ND | ND | ND | ND | ND | 119 | ND | 214 | ND |
| 03/30/2006 | ND | ND | ND | ND | ND | 47.4 | ND | ND | ND |
| 06/29/2006 | ND | ND | ND | ND | ND | 58.5 | ND | ND | ND |
| 09/28/2006 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 17.3 | ND(10) | ND(100) | ND(93.9) |
| 12/19/2006 | ND(1.0) | 1.45 | 1.09 | 4.77 | 7.31 | 24.8 | ND(20) | ND(100) | ND(100) |
| 03/06/2007 | ND(1.0) | ND(2.0) | ND(2.0) | ND(6.0) | ND(11) | 65.5 | ND(20) | ND(100) | ND(79) |
| 06/22/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 26.1 | ND(20) | ND(100) | ND(98) |
| 09/25/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 16.7 | ND(20) | ND(100) | ND(125) |
| 12/05/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 19.1 | ND(20) | ND(100) | ND(100) |
| 03/25/2008 | ND(5.0) | ND(5.0) | ND(5.0) | ND(5.0) | ND(20) | 44.0 | ND(100) | ND(100) | ND(50) |
| 06/24/2008 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 15.0 | ND(5.0) | ND(100) | ND(50) |
| 09/15/2008 | ND(0.16) | ND(0.14) | ND(0.19) | ND(0.71) | ND(1.2) | 33.0 | ND(1.0) | ND(20) | 46.0 I |
| 12/12/2008 | ND(0.2105) | ND(0.1601) | ND(0.1959) | ND(0.6946) | ND(1.2611) | 17.4 | ND(2.0) | 44.0 I | ND(14) |
| 02/20/2009 | ND(0.2105) | ND(0.1601) | ND(0.1959) | ND(0.6946) | ND(1.2611) | 47.23 | ND(2.0) | ND(25) | 51.0 I |
| 05/07/2009 | ND(0.2105) | 1.68 | ND(0.1959) | ND(0.6946) | 1.68 | 44.24 | ND(2.0) | ND(25) | ND(25) |
| 09/23/2009 | ND(0.211) | 0.45 I | ND(0.196) | ND(0.696) | 0.45 | 13.3 | ND(15) | ND(13) | ND(36) |
| 12/07/2009 | ND(0.211) | 0.34 I | ND(0.196) | ND(0.696) | 0.34 | 22.9 | ND(15) | 36.0 I | 60.0 I |
| 03/11/2010 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 1.65 | ND(15) | 34.0 | ND(36) |
| 05/17/2010 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 0.28 I | ND(15) | ND(25) | ND(36) |
| 09/27/2010 | ND(0.249) | ND(0.201) | ND(0.21) | ND(0.676) | ND(1.336) | 32.0 | 17.0 I | 40.0 I | ND(36) |
| 12/02/2010 | ND(0.249) | ND(0.201) | ND(0.21) | ND(0.676) | ND(1.336) | 26.0 | ND(6.14) | 34.0 I | ND(36) |
| 02/15/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 38.7 | ND(25) | ND(200) | ND(110) |
| 05/18/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 25.4 | ND(25) | ND(200) | ND(100) |
| 08/10/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 37.0 | 6.0 J | ND(200) | ND(100) |
| 11/01/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 32.3 | ND(25) | ND(200) | ND(100) |
| 05/02/2012 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 22.2 | ND(25) | ND(200) | ND(110) |
| **MW-08D** | | | | | | | | | |
| 04/05/2004 | ND | ND | ND | ND | ND | 80 | ND | ND | ND |
| 07/01/2004 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(2.0) | 71.7 | ND(5.0) | ND(200) | ND(100) |
| 10/04/2004 | ND | ND | ND | ND | ND | 95.4 | ND | ND | ND |
| 01/03/2005 | ND | ND | ND | 1.1 | 1.1 | 93.6 | ND | ND | ND |
| 04/13/2005 | ND | ND | ND | 4.8 | 4.8 | 135 | ND | 344 | ND |
| 08/17/2005 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 11/17/2005 | ND | ND | ND | 0.92 | 0.92 | 233 | 43.9 | 481 | ND |

*BTEX - Benzene, Toluene, Ethylbenzene, Xylenes*
*MTBE - Methyl tert-Butyl Ether*
*TBA - Tertiary Butyl Alcohol*
*TPH-GRO - Total Petroleum Hydrocarbons Gasoline Range Organics*
*TPH-DRO - Total Petroleum Hydrocarbons Diesel Range Organics*

*ND - Not Detected (Reporting Limit Not Available)*
*ND (100) - Not Detected (Reporting Limit)*
*NS - Not Sampled*
*I - Results between Reporting Limit and Method Detection Limit*
*J - Estimated Value*

*(µg/L) - micrograms per Liter*

# *Table 2*
# *Summary of Groundwater Analytical Results*
# *Former Shell Service Station #137675*

| *Sample Date* | *Benzene (µg/L)* | *Toluene (µg/L)* | *Ethylbenzene (µg/L)* | *Total Xylenes (µg/L)* | *Total BTEX (µg/L)* | *MTBE (µg/L)* | *TBA (µg/L)* | *TPH-GRO (µg/L)* | *TPH-DRO (µg/L)* |
|---|---|---|---|---|---|---|---|---|---|
| **MW-08D** | | | | | | | | | |
| 03/30/2006 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 06/29/2006 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 09/28/2006 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 299 | 19.9 | 144 | ND(93.9) |
| 12/19/2006 | ND(1.0) | 2.11 | 1.68 | 10.6 | 14.39 | 278 | 23.7 | 372 | ND(100) |
| 03/06/2007 | ND(1.0) | ND(2.0) | ND(2.0) | ND(6.0) | ND(11) | 369 | 47.9 | 381 | ND(100) |
| 06/22/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 391 | ND(20) | 387 | ND(95.2) |
| 09/25/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 292 | ND(20) | 295 | ND(96.2) |
| 12/05/2007 | ND(1.0) | ND(1.0) | ND(1.0) | 4.03 | 4.03 | 460 | 49.6 | 353 | ND(94.3) |
| 03/25/2008 | ND(5.0) | ND(5.0) | ND(5.0) | 17.0 | 17.0 | 670 | ND(100) | 920 | 130 |
| 06/24/2008 | 1.2 | ND(1.0) | ND(1.0) | 7.7 | 8.9 | 660 | 70.0 | 790 | 63.0 |
| 09/15/2008 | 1.3 | ND(0.14) | ND(0.19) | 8.9 | 10.2 | 620 | 56.0 | 420 | 71.0 I |
| 12/12/2008 | 1.188 | 0.5046 I | ND(0.1959) | 8.671 | 10.3636 | 659.1 | 158 | 1180 | 67.0 |
| 02/20/2009 | 2.525 | ND(0.1601) | ND(0.1959) | 14.82 | 17.345 | 1083 | 361 | 703 | 68.0 I |
| 05/07/2009 | 1.87 | 0.63 I | ND(0.1959) | 13.81 | 16.31 | 1013 | 659 | 420 | 70.0 |
| 09/23/2009 | ND(1.05) | ND(1.24) | ND(0.98) | 3.35 | 3.35 | 343 | ND(75) | 104 | ND(36) |
| 12/07/2009 | ND(2.11) | ND(2.47) | ND(1.96) | 10.2 | 10.2 | 1130 | ND(150) | 698 | ND(36) |
| 03/11/2010 | ND(2.11) | 2.7 | ND(1.96) | 7.7 | 10.4 | 1330 | 170 | 981 | 80 |
| 05/17/2010 | 0.93 I | ND(0.247) | ND(0.196) | 7.62 | 8.55 | 1520 | 261 | 1200 | 93 I |
| 09/27/2010 | 0.613 I | ND(0.201) | ND(0.21) | 9.82 | 10.433 | 1480 | 996 | 1150 | 68.0 I |
| 12/02/2010 | ND(12.5) | ND(10.1) | ND(10.5) | ND(33.9) | ND(67) | 1660 | ND(307) | 1380 | 104 I |
| 02/15/2011 | 3.7 J | ND(5.0) | ND(5.0) | 8.6 | 12.3 | 2130 | 291 | 2390 | 128 |
| 05/17/2011 | 2.4 J | ND(5.0) | ND(5.0) | 7.9 | 10.3 | 2220 | 292 | 2120 | ND(100) |
| 08/10/2011 | 4.0 J | ND(5.0) | ND(5.0) | 8.5 | 12.5 | 2950 | 674 | 1730 | 177 |
| 11/01/2011 | 2.1 | ND(1.0) | ND(1.0) | 4.0 | 6.1 | 3110 | 464 | 2960 | ND(100) |
| 05/03/2012 | 1.6 | ND(1.0) | ND(1.0) | 2.4 | 4.0 | 3400 | 451 | 3560 | ND(100) |
| **MW-08S** | | | | | | | | | |
| 04/05/2004 | ND | ND | ND | ND | ND | 15.6 | ND | ND | ND |
| 07/01/2004 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(2.0) | 7.6 | ND(5.0) | ND(200) | ND(100) |
| 10/04/2004 | ND | ND | ND | ND | ND | 4.9 | ND | ND | ND |
| 01/03/2005 | ND | ND | ND | ND | ND | 9.8 | ND | ND | ND |
| 04/13/2005 | ND | ND | ND | ND | ND | 16.0 | ND | ND | ND |
| 08/17/2005 | ND | ND | ND | ND | ND | 2.3 | ND | ND | ND |
| 11/17/2005 | ND | ND | ND | ND | ND | 11.3 | ND | ND | ND |
| 03/30/2006 | ND | ND | ND | ND | ND | 10.1 | ND | ND | 125 |
| 06/29/2006 | ND | ND | ND | ND | ND | 17.4 | ND | ND | ND |

*BTEX - Benzene, Toluene, Ethylbenzene, Xylenes*
*MTBE - Methyl tert-Butyl Ether*
*TBA - Tertiary Butyl Alcohol*
*TPH-GRO - Total Petroleum Hydrocarbons Gasoline Range Organics*
*TPH-DRO - Total Petroleum Hydrocarbons Diesel Range Organics*

*ND - Not Detected (Reporting Limit Not Available)*
*ND (100) - Not Detected (Reporting Limit)*
*NS - Not Sampled*
*I - Results between Reporting Limit and Method Detection Limit*
*J - Estimated Value*

*(µg/L) - micrograms per Liter*

# *Table 2*
# *Summary of Groundwater Analytical Results*
# *Former Shell Service Station #137675*

| *Sample Date* | *Benzene (µg/L)* | *Toluene (µg/L)* | *Ethylbenzene (µg/L)* | *Total Xylenes (µg/L)* | *Total BTEX (µg/L)* | *MTBE (µg/L)* | *TBA (µg/L)* | *TPH-GRO (µg/L)* | *TPH-DRO (µg/L)* |
|---|---|---|---|---|---|---|---|---|---|
| **MW-08S** | | | | | | | | | |
| 09/28/2006 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 11.1 | ND(10) | ND(100) | ND(93.9) |
| 12/19/2006 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 16.4 | ND(20) | ND(100) | ND(100) |
| 03/06/2007 | ND(1.0) | ND(2.0) | ND(2.0) | ND(6.0) | ND(11) | 27.2 | ND(20) | ND(100) | ND(81) |
| 06/22/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 4.22 | ND(20) | ND(100) | ND(100) |
| 09/25/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 11.6 | ND(20) | ND(100) | ND(97.1) |
| 12/05/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 20.7 | ND(20) | ND(100) | ND(94.3) |
| 03/25/2008 | ND(5.0) | ND(5.0) | ND(5.0) | ND(5.0) | ND(20) | 20.0 | ND(100) | ND(100) | ND(50) |
| 06/24/2008 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 8.0 | ND(5.0) | ND(100) | ND(50) |
| 09/15/2008 | ND(0.16) | ND(0.14) | ND(0.19) | ND(0.71) | ND(1.2) | 14.0 | ND(1.0) | ND(20) | 55.0 I |
| 12/12/2008 | ND(0.2105) | ND(0.1601) | ND(0.1959) | ND(0.6946) | ND(1.2611) | 30.85 | ND(2.0) | 54.0 | ND(13) |
| 02/20/2009 | ND(0.2105) | 0.5156 I | ND(0.1959) | ND(0.6946) | 0.5156 | 23.85 | ND(2.0) | ND(25) | 36.0 I |
| 05/07/2009 | ND(0.2105) | ND(0.1601) | ND(0.1959) | ND(0.6946) | ND(1.2611) | 39.33 | ND(2.0) | ND(25) | ND(26) |
| 09/23/2009 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 13.1 | ND(15) | 16.0 I | ND(36) |
| 12/07/2009 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 34.0 | ND(15) | 44.0 I | 45.0 I |
| 03/11/2010 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 7.05 | ND(15) | ND(25) | 38.0 |
| 05/17/2010 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 3.21 | ND(15) | ND(25) | 44.0 I |
| 09/27/2010 | ND(0.249) | ND(0.201) | ND(0.21) | ND(0.676) | ND(1.336) | 8.81 | ND(6.14) | 34.0 I | ND(36) |
| 12/02/2010 | ND(0.249) | ND(0.201) | ND(0.21) | ND(0.676) | ND(1.336) | 10.7 | ND(6.14) | ND(25) | ND(36) |
| 02/15/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 14.7 | ND(25) | ND(200) | ND(110) |
| 05/17/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 175 | ND(25) | 226 | ND(100) |
| 08/10/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 12.6 | ND(25) | ND(200) | ND(100) |
| 11/01/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 8.0 | ND(25) | ND(200) | ND(100) |
| 05/04/2012 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 15.8 | ND(25) | ND(200) | ND(100) |
| **MW-09D** | | | | | | | | | |
| 04/05/2004 | ND | ND | ND | ND | ND | 3.0 | ND | ND | ND |
| 07/01/2004 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(2.0) | 4.4 | ND(5.0) | ND(200) | 249 |
| 10/05/2004 | ND | ND | ND | ND | ND | 7.0 | ND | ND | ND |
| 01/03/2005 | ND | ND | ND | ND | ND | 7.4 | ND | ND | ND |
| 04/13/2005 | ND | ND | ND | ND | ND | 7.2 | ND | ND | ND |
| 08/17/2005 | ND | ND | ND | ND | ND | 8.1 | ND | ND | ND |
| 11/17/2005 | ND | ND | ND | ND | ND | 8.1 | ND | ND | ND |
| 03/30/2006 | ND | ND | ND | ND | ND | 5.28 | ND | ND | ND |
| 06/29/2006 | ND | ND | ND | ND | ND | 4.85 | ND | ND | ND |
| 09/28/2006 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 5.23 | ND(10) | ND(100) | ND(93.9) |
| 12/19/2006 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 2.15 | ND(20) | ND(100) | ND(100) |

***BTEX - Benzene, Toluene, Ethylbenzene, Xylenes***
***MTBE - Methyl tert-Butyl Ether***
***TBA - Tertiary Butyl Alcohol***
***TPH-GRO - Total Petroleum Hydrocarbons Gasoline Range Organics***
***TPH-DRO - Total Petroleum Hydrocarbons Diesel Range Organics***

***ND - Not Detected (Reporting Limit Not Available)***
***ND (100) - Not Detected (Reporting Limit)***
***NS - Not Sampled***
***I - Results between Reporting Limit and Method Detection Limit***
***J - Estimated Value***

***(µg/L) - micrograms per Liter***

# *Table 2*
# *Summary of Groundwater Analytical Results*
# *Former Shell Service Station #137675*

| *Sample Date* | *Benzene (µg/L)* | *Toluene (µg/L)* | *Ethylbenzene (µg/L)* | *Total Xylenes (µg/L)* | *Total BTEX (µg/L)* | *MTBE (µg/L)* | *TBA (µg/L)* | *TPH-GRO (µg/L)* | *TPH-DRO (µg/L)* |
|---|---|---|---|---|---|---|---|---|---|
| **MW-09D** | | | | | | | | | |
| 03/06/2007 | ND(1.0) | ND(2.0) | ND(2.0) | ND(6.0) | ND(11) | 3.12 | ND(20) | ND(100) | ND(76) |
| 06/22/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 1.89 | ND(20) | ND(100) | ND(111) |
| 09/25/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 3.02 | ND(20) | ND(100) | ND(95.2) |
| 12/05/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 2.38 | ND(20) | ND(100) | ND(97.1) |
| 03/25/2008 | ND(5.0) | ND(5.0) | ND(5.0) | ND(5.0) | ND(20) | ND(5.0) | ND(100) | ND(100) | 64.0 |
| 06/24/2008 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 1.8 | ND(5.0) | ND(100) | ND(50) |
| 09/15/2008 | ND(0.16) | ND(0.14) | ND(0.19) | ND(0.71) | ND(1.2) | ND(0.18) | ND(1.0) | ND(20) | 620 |
| 12/12/2008 | ND(0.2105) | ND(0.1601) | ND(0.1959) | ND(0.6946) | ND(1.2611) | 0.7778 I | ND(2.0) | ND(25) | ND(13) |
| 02/20/2009 | ND(0.2105) | 0.5395 I | ND(0.1959) | ND(0.6946) | 0.5395 | ND(0.2562) | ND(2.0) | ND(25) | ND(25) |
| 05/07/2009 | ND(0.2105) | 0.66 I | ND(0.1959) | ND(0.6946) | 0.66 | ND(0.2562) | ND(2.0) | ND(25) | ND(25) |
| 09/23/2009 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 0.57 I | ND(15) | ND(13) | ND(36) |
| 12/07/2009 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 0.51 I | ND(15) | 32.0 I | ND(36) |
| 03/11/2010 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 0.54 | ND(15) | ND(25) | 51.0 |
| 05/17/2010 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 0.40 I | ND(15) | ND(25) | 54.0 I |
| 09/27/2010 | ND(0.249) | ND(0.201) | ND(0.21) | ND(0.676) | ND(1.336) | ND(0.46) | ND(6.14) | ND(25) | ND(36) |
| 12/02/2010 | ND(0.249) | ND(0.201) | ND(0.21) | ND(0.676) | ND(1.336) | ND(0.46) | ND(6.14) | ND(25) | 633 I |
| 02/16/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | ND(1.0) | ND(25) | ND(200) | 240 |
| 05/18/2011 | NS | NS | NS | NS | NS | NS | NS | NS | ND(100) |
| 06/03/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 0.28 J | ND(25) | ND(200) | NS |
| 08/12/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | ND(1.0) | ND(25) | ND(200) | 187 |
| 11/02/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | ND(1.0) | ND(25) | ND(200) | ND(100) |
| 05/03/2012 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 0.30 J | ND(25) | ND(200) | ND(100) |
| **MW-09S** | | | | | | | | | |
| 04/05/2004 | ND | ND | ND | ND | ND | 0.66 | ND | ND | ND |
| 07/01/2004 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(2.0) | 1.1 | ND(5.0) | ND(200) | ND(100) |
| 10/05/2004 | ND | ND | ND | ND | ND | 3.3 | ND | ND | ND |
| 01/03/2005 | ND | ND | ND | ND | ND | 6.5 | ND | ND | ND |
| 04/13/2005 | ND | ND | ND | ND | ND | 5.1 | ND | ND | ND |
| 08/17/2005 | ND | ND | ND | ND | ND | 6.5 | ND | ND | ND |
| 11/17/2005 | ND | ND | ND | ND | ND | 6.1 | ND | ND | ND |
| 03/30/2006 | ND | ND | ND | ND | ND | 3.85 | ND | ND | ND |
| 06/29/2006 | ND | ND | ND | ND | ND | 3.39 | ND | ND | ND |
| 09/28/2006 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 3.93 | ND(10) | ND(100) | ND(94.3) |
| 12/19/2006 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 1.09 | ND(20) | ND(100) | ND(102) |
| 03/06/2007 | ND(1.0) | ND(2.0) | ND(2.0) | ND(6.0) | ND(11) | 1.23 | ND(20) | ND(100) | ND(63) |

***BTEX - Benzene, Toluene, Ethylbenzene, Xylenes***
***MTBE - Methyl tert-Butyl Ether***
***TBA - Tertiary Butyl Alcohol***
***TPH-GRO - Total Petroleum Hydrocarbons Gasoline Range Organics***
***TPH-DRO - Total Petroleum Hydrocarbons Diesel Range Organics***

***ND - Not Detected (Reporting Limit Not Available)***
***ND (100) - Not Detected (Reporting Limit)***
***NS - Not Sampled***
***I - Results between Reporting Limit and Method Detection Limit***
***J - Estimated Value***

***(µg/L) - micrograms per Liter***

# *Table 2*
# *Summary of Groundwater Analytical Results*
# *Former Shell Service Station #137675*

| *Sample Date* | *Benzene (µg/L)* | *Toluene (µg/L)* | *Ethylbenzene (µg/L)* | *Total Xylenes (µg/L)* | *Total BTEX (µg/L)* | *MTBE (µg/L)* | *TBA (µg/L)* | *TPH-GRO (µg/L)* | *TPH-DRO (µg/L)* |
|---|---|---|---|---|---|---|---|---|---|
| **MW-09S** | | | | | | | | | |
| 06/22/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | ND(1.0) | ND(20) | ND(100) | ND(97.1) |
| 09/25/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | ND(1.0) | ND(20) | ND(100) | ND(118) |
| 12/05/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | ND(1.0) | ND(20) | ND(100) | ND(105) |
| 03/25/2008 | ND(5.0) | ND(5.0) | ND(5.0) | ND(5.0) | ND(20) | ND(5.0) | ND(100) | ND(100) | ND(50) |
| 06/24/2008 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | ND(1.0) | ND(5.0) | ND(100) | ND(50) |
| 09/15/2008 | ND(0.16) | ND(0.14) | ND(0.19) | ND(0.71) | ND(1.2) | ND(0.18) | ND(1.0) | ND(20) | 73.0 I |
| 12/12/2008 | ND(0.2105) | ND(0.1601) | ND(0.1959) | ND(0.6946) | ND(1.2611) | 0.5719 I | ND(2.0) | ND(25) | 14.0 I |
| 02/20/2009 | ND(0.2105) | 0.5568 I | ND(0.1959) | ND(0.6946) | 0.5568 | ND(0.2562) | ND(2.0) | ND(25) | ND(25) |
| 05/07/2009 | ND(0.2105) | 0.99 I | ND(0.1959) | ND(0.6946) | 0.99 | ND(0.2562) | ND(2.0) | ND(25) | ND(25) |
| 09/23/2009 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 0.27 I | ND(15) | 17.0 I | ND(36) |
| 12/07/2009 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | ND(0.261) | ND(15) | ND(25) | 43.0 I |
| 03/11/2010 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | ND(0.261) | ND(15) | ND(25) | 37.0 |
| 05/17/2010 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | ND(0.261) | ND(15) | ND(25) | ND(36) |
| 09/27/2010 | ND(0.249) | ND(0.201) | ND(0.21) | ND(0.676) | ND(1.336) | ND(0.46) | ND(6.14) | 32.0 I | ND(36) |
| 12/02/2010 | ND(0.249) | ND(0.201) | ND(0.21) | ND(0.676) | ND(1.336) | ND(0.46) | ND(6.14) | ND(25) | ND(36) |
| 02/15/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | ND(1.0) | ND(25) | ND(200) | ND(110) |
| 05/18/2011 | NS | NS | NS | NS | NS | NS | NS | NS | ND(100) |
| 06/03/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 0.39 J | ND(25) | ND(200) | NS |
| 08/12/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | ND(1.0) | ND(25) | ND(200) | ND(110) |
| 11/02/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | ND(1.0) | ND(25) | ND(200) | ND(100) |
| 05/03/2012 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | ND(1.0) | ND(25) | ND(200) | ND(100) |
| **MW-11D** | | | | | | | | | |
| 07/08/2004 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 62.2 | 19.0 | ND(200) | 1020 |
| 10/04/2004 | ND | ND | ND | ND | ND | 30.8 | ND | ND | 146 |
| 01/03/2005 | ND | ND | ND | ND | ND | 7.6 | ND | ND | 148 |
| 04/13/2005 | ND | ND | ND | ND | ND | 19.2 | ND | ND | 211 |
| 08/17/2005 | ND | ND | ND | ND | ND | 10.1 | ND | ND | ND |
| 11/17/2005 | ND | ND | ND | ND | ND | 0.75 | ND | ND | 728 |
| 03/30/2006 | ND | ND | ND | ND | ND | 10.6 | ND | ND | 323 |
| 06/29/2006 | ND | ND | ND | ND | ND | ND | ND | ND | 339 |
| 09/28/2006 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 2.75 | ND(10) | ND(100) | 277 |
| 12/19/2006 | ND(1.0) | 14.7 | ND(1.0) | ND(3.0) | 14.7 | ND(1.0) | ND(20) | ND(100) | 464 |
| 03/06/2007 | ND(1.0) | ND(2.0) | ND(2.0) | ND(6.0) | ND(11) | ND(1.0) | ND(20) | ND(100) | 130 |
| 06/22/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 2.11 | ND(20) | ND(100) | 447 |
| 09/25/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 15.6 | ND(20) | ND(100) | 213 |

***BTEX - Benzene, Toluene, Ethylbenzene, Xylenes***
***MTBE - Methyl tert-Butyl Ether***
***TBA - Tertiary Butyl Alcohol***
***TPH-GRO - Total Petroleum Hydrocarbons Gasoline Range Organics***
***TPH-DRO - Total Petroleum Hydrocarbons Diesel Range Organics***

***ND - Not Detected (Reporting Limit Not Available)***
***ND (100) - Not Detected (Reporting Limit)***
***NS - Not Sampled***
***I - Results between Reporting Limit and Method Detection Limit***
***J - Estimated Value***

***(µg/L) - micrograms per Liter***

# *Table 2*
# *Summary of Groundwater Analytical Results*
# *Former Shell Service Station #137675*

| *Sample Date* | *Benzene (µg/L)* | *Toluene (µg/L)* | *Ethylbenzene (µg/L)* | *Total Xylenes (µg/L)* | *Total BTEX (µg/L)* | *MTBE (µg/L)* | *TBA (µg/L)* | *TPH-GRO (µg/L)* | *TPH-DRO (µg/L)* |
|---|---|---|---|---|---|---|---|---|---|
| **MW-11D** | | | | | | | | | |
| 12/05/2007 | 1.63 | 2.49 | ND(1.0) | ND(3.0) | 4.12 | ND(1.0) | ND(20) | ND(100) | 1280 |
| 03/25/2008 | ND(5.0) | ND(5.0) | ND(5.0) | ND(5.0) | ND(20) | ND(5.0) | ND(100) | ND(100) | 1600 |
| 06/24/2008 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | ND(1.0) | ND(5.0) | ND(100) | 210 |
| 09/15/2008 | ND(0.16) | ND(0.14) | ND(0.19) | ND(0.71) | ND(1.2) | ND(0.18) | ND(1.0) | ND(20) | 360 |
| 12/12/2008 | ND(0.2105) | ND(0.1601) | ND(0.1959) | ND(0.6946) | ND(1.2611) | ND(0.2562) | ND(2.0) | 25.0 I | 124 |
| 02/20/2009 | ND(0.2105) | ND(0.1601) | ND(0.1959) | ND(0.6946) | ND(1.2611) | 2.39 I | ND(2.0) | ND(25) | 250 |
| 05/07/2009 | ND(0.2105) | 1.57 | ND(0.1959) | ND(0.6946) | 1.57 | ND(0.2562) | ND(2.0) | ND(25) | 120 |
| 09/23/2009 | ND(0.211) | 1.53 | ND(0.196) | ND(0.696) | 1.53 | 0.66 I | ND(15) | ND(13) | ND(36) |
| 12/07/2009 | ND(0.211) | 1.38 | 0.24 I | 0.40 | 2.02 | 0.66 I | ND(15) | 38.0 I | 98 I |
| 03/11/2010 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 4.59 | ND(15) | 36.0 | 105 |
| 05/17/2010 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 2.52 | ND(15) | ND(25) | 45.0 I |
| 09/27/2010 | ND(0.249) | ND(0.201) | ND(0.21) | ND(0.676) | ND(1.336) | 1.39 | ND(6.14) | ND(25) | 260 I |
| 12/02/2010 | ND(0.249) | ND(0.201) | ND(0.21) | ND(0.676) | ND(1.336) | 1.72 | ND(6.14) | ND(25) | 218 I |
| 02/16/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 1.8 | ND(25) | ND(200) | 307 |
| 05/18/2011 | NS | NS | NS | NS | NS | NS | NS | NS | 363 |
| 06/03/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 12.5 | ND(25) | ND(200) | NS |
| 08/12/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 17.3 | ND(25) | ND(200) | ND(100) |
| 11/01/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 0.33 J | ND(25) | ND(200) | ND(100) |
| 05/01/2012 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 3.8 | ND(25) | ND(200) | ND(100) |
| **MW-11R** | | | | | | | | | |
| 07/01/2004 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(2.0) | 26.4 | ND(5.0) | ND(200) | 429 |
| 10/04/2004 | ND | ND | ND | ND | ND | 19.4 | ND | ND | ND |
| 01/03/2005 | ND | ND | ND | ND | ND | 18.8 | ND | ND | ND |
| 04/13/2005 | ND | ND | ND | ND | ND | 8.0 | ND | ND | ND |
| 08/17/2005 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 11/17/2005 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 03/30/2006 | ND | ND | ND | ND | ND | ND | ND | ND | 113 |
| 06/29/2006 | ND | ND | ND | ND | ND | 1.55 | ND | ND | ND |
| 09/28/2006 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 2.66 | ND(10) | ND(100) | 351 |
| 12/19/2006 | ND(1.0) | 1.42 | 1.2 | 5.49 | 8.11 | 27.7 | ND(20) | ND(100) | 941 |
| 03/06/2007 | ND(1.0) | ND(2.0) | ND(2.0) | ND(6.0) | ND(11) | 25.1 | ND(20) | ND(100) | ND(100) |
| 06/22/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 6.5 | ND(20) | ND(100) | ND(98) |
| 09/25/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 4.76 | ND(20) | ND(100) | ND(97.1) |
| 12/05/2007 | 2.14 | 3.02 | ND(1.0) | ND(3.0) | 5.16 | 2.57 | ND(20) | ND(100) | ND(100) |
| 03/25/2008 | ND(5.0) | ND(5.0) | ND(5.0) | ND(5.0) | ND(20) | ND(5.0) | ND(100) | ND(100) | 2300 |

***BTEX - Benzene, Toluene, Ethylbenzene, Xylenes***
***MTBE - Methyl tert-Butyl Ether***
***TBA - Tertiary Butyl Alcohol***
***TPH-GRO - Total Petroleum Hydrocarbons Gasoline Range Organics***
***TPH-DRO - Total Petroleum Hydrocarbons Diesel Range Organics***

***ND - Not Detected (Reporting Limit Not Available)***
***ND (100) - Not Detected (Reporting Limit)***
***NS - Not Sampled***
***I - Results between Reporting Limit and Method Detection Limit***
***J - Estimated Value***

***(µg/L) - micrograms per Liter***

# *Table 2*
# *Summary of Groundwater Analytical Results*
# *Former Shell Service Station #137675*

| *Sample Date* | *Benzene (µg/L)* | *Toluene (µg/L)* | *Ethylbenzene (µg/L)* | *Total Xylenes (µg/L)* | *Total BTEX (µg/L)* | *MTBE (µg/L)* | *TBA (µg/L)* | *TPH-GRO (µg/L)* | *TPH-DRO (µg/L)* |
|---|---|---|---|---|---|---|---|---|---|
| **MW-11R** | | | | | | | | | |
| 06/24/2008 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | ND(1.0) | ND(5.0) | ND(100) | ND(50) |
| 09/15/2008 | ND(0.16) | ND(0.14) | ND(0.19) | ND(0.71) | ND(1.2) | ND(0.18) | ND(1.0) | ND(20) | 53.0 I |
| 12/12/2008 | ND(0.2105) | ND(0.1601) | ND(0.1959) | ND(0.6946) | ND(1.2611) | 0.7315 I | ND(2.0) | 37.0 I | 57.0 |
| 02/20/2009 | ND(0.2105) | ND(0.1601) | ND(0.1959) | ND(0.6946) | ND(1.2611) | ND(0.2562) | ND(2.0) | ND(25) | 160 |
| 05/07/2009 | ND(0.2105) | 1.8 | ND(0.1959) | ND(0.6946) | 1.8 | ND(0.2562) | ND(2.0) | ND(25) | 140 |
| 09/23/2009 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | ND(0.261) | ND(15) | ND(13) | ND(36) |
| 12/07/2009 | ND(0.211) | 0.27 I | ND(0.196) | ND(0.696) | 0.27 | 29.9 | ND(15) | 45.0 I | 279 I |
| 03/11/2010 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 8.52 | ND(15) | ND(25) | NS |
| 05/17/2010 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 0.48 I | ND(15) | ND(25) | ND(36) |
| 09/27/2010 | ND(0.249) | ND(0.201) | ND(0.21) | ND(0.676) | ND(1.336) | 4.8 | ND(6.14) | 29.0 I | 53.0 I |
| 12/02/2010 | ND(0.249) | ND(0.201) | ND(0.21) | ND(0.676) | ND(1.336) | 3.87 | ND(6.14) | ND(25) | 40.0 I |
| 02/16/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | ND(1.0) | ND(25) | ND(200) | 125 |
| 05/18/2011 | 0.99 J | ND(1.0) | ND(1.0) | ND(1.0) | 0.99 | 751 | 1600 | ND(200) | 192 |
| 08/12/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 0.48 J | ND(25) | ND(200) | ND(100) |
| 11/01/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 0.43 J | ND(25) | ND(200) | ND(100) |
| 05/02/2012 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 2.6 | ND(25) | ND(200) | 798 |
| **MW-11S** | | | | | | | | | |
| 07/08/2004 | 14.1 | ND(25) | ND(25) | ND(25) | 14.1 | 12000 | 3020 | 15900 | ND(110) |
| 10/04/2004 | 16.1 | ND | ND | ND | 16.1 | 8250 | 3300 | 14300 | 199 |
| 01/03/2005 | 10.3 | ND | ND | ND | 10.3 | 9860 | 3120 | 8240 | 225 |
| 04/13/2005 | 9.8 | ND | ND | ND | 9.8 | 6520 | 2470 | 10600 | ND |
| 08/17/2005 | ND | ND | ND | ND | ND | 7120 | 3750 | 15800 | 148 |
| 11/17/2005 | 2.5 | ND | ND | ND | 2.5 | 2130 | 1310 | 3800 | 354 |
| 03/30/2006 | 5.23 | ND | ND | ND | 5.23 | 3760 | 1510 | 4130 | 411 |
| 06/29/2006 | ND | ND | ND | ND | ND | 51.9 | 43.3 | ND | 370 |
| 09/28/2006 | 2.31 | ND(1.0) | ND(1.0) | ND(3.0) | 2.31 | 1960 | 1130 | 652 | 629 |
| 12/19/2006 | 3.27 | 1.57 | ND(1.0) | ND(3.0) | 4.84 | 1860 | 1360 | 1610 | ND(100) |
| 03/06/2007 | ND(1.0) | ND(2.0) | ND(2.0) | ND(6.0) | ND(11) | 45.4 | 50.1 | ND(100) | 260 |
| 06/22/2007 | 2.47 | ND(1.0) | ND(1.0) | ND(3.0) | 2.47 | 2340 | 1510 | 2880 | 298 |
| 09/25/2007 | 3.67 | ND(1.0) | ND(1.0) | ND(3.0) | 3.67 | 3810 | 14600 | 2870 | 169 |
| 12/05/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 29.2 | 52.4 | ND(100) | 775 |
| 03/25/2008 | ND(5.0) | ND(5.0) | ND(5.0) | ND(5.0) | ND(20) | ND(5.0) | ND(100) | ND(100) | 63.0 |
| 06/24/2008 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 31.0 | 52.0 | ND(100) | 260 |
| 09/15/2008 | ND(0.16) | ND(0.14) | ND(0.19) | ND(0.71) | ND(1.2) | 54.0 | 87 | 120 | 150 I |
| 12/12/2008 | ND(0.2105) | ND(0.1601) | ND(0.1959) | ND(0.6946) | ND(1.2611) | ND(0.2562) | ND(2.0) | ND(25) | 202 |

*BTEX - Benzene, Toluene, Ethylbenzene, Xylenes*
*MTBE - Methyl tert-Butyl Ether*
*TBA - Tertiary Butyl Alcohol*
*TPH-GRO - Total Petroleum Hydrocarbons Gasoline Range Organics*
*TPH-DRO - Total Petroleum Hydrocarbons Diesel Range Organics*

*ND - Not Detected (Reporting Limit Not Available)*
*ND (100) - Not Detected (Reporting Limit)*
*NS - Not Sampled*
*I - Results between Reporting Limit and Method Detection Limit*
*J - Estimated Value*

*(µg/L) - micrograms per Liter*

# *Table 2*
# *Summary of Groundwater Analytical Results*
# *Former Shell Service Station #137675*

| Sample Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | Total BTEX (µg/L) | MTBE (µg/L) | TBA (µg/L) | TPH-GRO (µg/L) | TPH-DRO (µg/L) |
|---|---|---|---|---|---|---|---|---|---|
| **MW-11S** | | | | | | | | | |
| 02/20/2009 | ND(0.2105) | ND(0.1601) | ND(0.1959) | ND(0.6946) | ND(1.2611) | 814.9 | 746 | 403 | 180 |
| 05/07/2009 | ND(0.2105) | 1.62 | ND(0.1959) | ND(0.6946) | 1.62 | ND(0.2562) | ND(2.0) | ND(25) | 110 |
| 09/23/2009 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 16.5 | 39.4 | ND(13) | ND(36) |
| 12/07/2009 | ND(0.211) | 0.40 I | ND(0.196) | ND(0.696) | 0.40 | 0.40 I | ND(15) | 26.0 I | ND(36) |
| 03/11/2010 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 10.5 | ND(15) | 33.0 | 74.0 |
| 05/17/2010 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 223 | 144 | 142 | ND(36) |
| 09/27/2010 | 1.1 | ND(0.201) | ND(0.21) | ND(0.676) | 1.1 | 1090 | 2830 | 948 | ND(36) |
| 12/02/2010 | ND(4.99) | ND(4.03) | ND(4.2) | ND(13.53) | ND(26.75) | 376 | 717 | 300 | 897 |
| 02/15/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 102 | 232 | ND(200) | 646 |
| 05/18/2011 | 1.0 | ND(1.0) | ND(1.0) | ND(1.0) | 1.0 | 804 | 1580 | 915 | 192 |
| 06/03/2011 | 0.39 J | ND(1.0) | ND(1.0) | ND(1.0) | 0.39 | 987 | 1360 | 922 | NS |
| 08/12/2011 | 0.95 J | ND(1.0) | ND(1.0) | ND(1.0) | 0.95 | 1050 | 2380 | 1280 | ND(100) |
| 11/01/2011 | 1.1 | ND(1.0) | ND(1.0) | ND(1.0) | 1.1 | 943 | 2410 | 1120 | 200 |
| 05/02/2012 | 0.29 J | ND(1.0) | ND(1.0) | ND(1.0) | 0.29 | 804 | 1350 | 1010 | ND(100) |
| **MW-12** | | | | | | | | | |
| 06/22/2007 | 3.96 | ND(1.0) | ND(1.0) | 5.35 | 9.31 | 1540 | 141 | 1520 | ND(95.2) |
| 09/25/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 1080 | 74.2 | 796 | ND(95.2) |
| 12/05/2007 | 2.13 | ND(1.0) | ND(1.0) | 4.17 | 6.3 | 1990 | 269 | 1760 | ND(94.3) |
| 03/25/2008 | 36.0 | ND(5.0) | ND(5.0) | 19.0 | 55.0 | 11000 | NS | 12000 | 280 |
| 06/24/2008 | 1.6 | ND(1.0) | ND(1.0) | ND(1.0) | 1.6 | 950 | 120 | 900 | ND(50) |
| 09/15/2008 | 11.0 | ND(0.14) | ND(0.19) | 9.9 | 20.9 | 5900 | 1400 | 3100 | 110 I |
| 12/12/2008 | 0.8948 I | ND(0.1601) | ND(0.1959) | 0.5607 | 1.4555 | 1310 | 447 | 2230 | 26.36 |
| 02/20/2009 | ND(0.2105) | ND(0.1601) | ND(0.1959) | 1.27 | 1.27 | 1811 | 339 | 934 | 71.0 I |
| 05/07/2009 | 2.26 | 1.59 | ND(0.1959) | 2.43 | 6.28 | 2931 | 1870 | 817 | ND(25) |
| 08/25/2009 | 6.63 | ND(0.247) | ND(0.196) | 10.6 | 17.23 | 2360 | 2800 | NS | NS |
| 08/27/2009 | 10.7 | ND(0.14) | 0.60 I | 10.8 | 22.1 | 6620 | ND(1.0) | 2600 | 39.0 I |
| 08/28/2009 | 12.7 | ND(0.14) | ND(0.19) | 11.4 | 24.1 | 7460 | ND(1.0) | 3300 | 56.0 I |
| 09/23/2009 | 6.84 | ND(0.247) | ND(0.196) | 3.02 | 9.86 | 4710 | 3630 | 1810 | ND(36) |
| 12/07/2009 | ND(10.5) | ND(12.4) | ND(9.8) | ND(34.8) | ND(67.5) | 3850 | ND(750) | 2230 | ND(36) |
| 03/11/2010 | ND(5.26) | ND(6.18) | ND(4.9) | ND(17.39) | ND(33.73) | 3610 | 657 | 2840 | 52.0 |
| 05/17/2010 | 3.1 | ND(0.247) | ND(0.196) | 0.39 | 3.49 | 3920 | 1900 | 3230 | NS |
| 05/20/2010 | NS | NS | NS | NS | NS | NS | NS | NS | 40.0 I |
| 09/27/2010 | 1.99 | ND(0.201) | ND(0.21) | 1.26 | 3.25 | 2870 | 2470 | 2590 | 60.0 I |
| 12/06/2010 | ND(6.23) | ND(5.03) | ND(5.25) | ND(16.9) | ND(33.41) | 1880 | ND(154) | 1440 | ND(36) |
| 02/16/2011 | ND(5.0) | ND(5.0) | ND(5.0) | ND(5.0) | ND(20) | 1460 | 147 | 1450 | ND(100) |

*BTEX - Benzene, Toluene, Ethylbenzene, Xylenes*
*MTBE - Methyl tert-Butyl Ether*
*TBA - Tertiary Butyl Alcohol*
*TPH-GRO - Total Petroleum Hydrocarbons Gasoline Range Organics*
*TPH-DRO - Total Petroleum Hydrocarbons Diesel Range Organics*

*ND - Not Detected (Reporting Limit Not Available)*
*ND (100) - Not Detected (Reporting Limit)*
*NS - Not Sampled*
*I - Results between Reporting Limit and Method Detection Limit*
*J - Estimated Value*

*(µg/L) - micrograms per Liter*

# *Table 2*
# *Summary of Groundwater Analytical Results*
# *Former Shell Service Station #137675*

| *Sample Date* | *Benzene (µg/L)* | *Toluene (µg/L)* | *Ethylbenzene (µg/L)* | *Total Xylenes (µg/L)* | *Total BTEX (µg/L)* | *MTBE (µg/L)* | *TBA (µg/L)* | *TPH-GRO (µg/L)* | *TPH-DRO (µg/L)* |
|---|---|---|---|---|---|---|---|---|---|
| **MW-12** | | | | | | | | | |
| 05/19/2011 | ND(10) | ND(10) | ND(10) | ND(10) | ND(40) | 2280 | 686 | 2280 | ND(100) |
| 08/12/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 38.6 | ND(25) | ND(200) | ND(100) |
| 11/02/2011 | 0.78 J | ND(1.0) | ND(1.0) | ND(1.0) | 0.78 | 2960 | 677 | 1410 | ND(100) |
| 05/02/2012 | 0.56 J | ND(2.5) | ND(2.5) | ND(2.5) | 0.56 | 1930 | 358 | 2250 | ND(100) |
| **MW-13D** | | | | | | | | | |
| 11/25/2008 | 9.753 | ND(0.1601) | ND(0.1959) | 3.107 | 12.86 | 759.4 | 318 | 623 | 90 |
| 02/20/2009 | ND(0.2105) | ND(0.1601) | ND(0.1959) | ND(0.6946) | ND(1.2611) | 256.6 | ND(2.0) | 109 | 57.0 I |
| 05/07/2009 | ND(0.2105) | 0.64 I | ND(0.1959) | ND(0.6946) | 0.64 | 6.14 | ND(2.0) | ND(25) | ND(25) |
| 09/23/2009 | 2.67 | ND(0.247) | ND(0.196) | 1.2 | 3.87 | 314 | 252 | 50.0 I | ND(36) |
| 12/07/2009 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 106 | ND(15) | 51.0 I | 72.0 I |
| 03/11/2010 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 8.57 | ND(15) | ND(25) | ND(36) |
| 05/17/2010 | 0.69 I | ND(0.247) | ND(0.196) | ND(0.696) | 0.69 | 194 | 77.8 | 393 | ND(36) |
| 09/27/2010 | 1.13 | ND(0.201) | ND(0.21) | ND(0.676) | 1.13 | 151 | 117 | 136 | 60.0 I |
| 12/03/2010 | 0.995 I | ND(0.403) | ND(0.42) | ND(1.353) | 0.995 | 147 | ND(12.3) | 120 | ND(40) |
| 02/18/2011 | 0.33 J | ND(1.0) | ND(1.0) | ND(1.0) | 0.33 | 438 | 73.7 | 500 | ND(100) |
| 05/17/2011 | 1.0 | 0.19 J | ND(1.0) | ND(1.0) | 1.19 | 166 | 33.3 | 224 | ND(100) |
| 08/11/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 140 | 12.0 J | ND(200) | ND(100) |
| 11/01/2011 | 0.40 J | ND(1.0) | ND(1.0) | ND(1.0) | 0.40 | 216 | 53.7 | 252 | ND(100) |
| 05/01/2012 | 0.80 J | ND(1.0) | ND(1.0) | ND(1.0) | 0.80 | 193 | 36.2 | 263 | 200 |
| **MW-13S** | | | | | | | | | |
| 11/25/2008 | 29.33 | ND(0.1601) | ND(0.1959) | 4.634 | 33.964 | 5527 | 2360 | 2780 | 164 |
| 02/20/2009 | 24.12 | ND(0.1601) | ND(0.1959) | 3.49 | 27.61 | 4297 | 1160 | 2580 | 120 |
| 05/07/2009 | 13.44 | ND(0.1601) | ND(0.1959) | 2.77 | 16.21 | 3081 | 2660 | 917 | 73.0 |
| 09/23/2009 | 11.9 | 0.31 I | ND(0.196) | 1.44 | 13.65 | 3260 | 2550 | 1370 | 43.0 I |
| 12/07/2009 | 10.0 | ND(2.47) | ND(1.96) | ND(6.96) | 10.0 | 2720 | 652 | 1650 | ND(36) |
| 03/11/2010 | 7.25 | ND(6.18) | ND(4.9) | ND(17.39) | 7.25 | 2790 | 750 | 2410 | 53.0 |
| 05/17/2010 | 8.98 | ND(0.247) | ND(0.196) | 1.28 | 10.26 | 2760 | 1710 | 2360 | 74.0 I |
| 09/27/2010 | 10.8 | ND(0.201) | ND(0.21) | 1.61 | 12.41 | 2930 | 2740 | 2370 | 60.0 I |
| 12/03/2010 | 9.76 I | ND(5.03) | ND(5.25) | ND(16.9) | 9.76 | 3020 | 1490 | 2430 | 99 I |
| 02/18/2011 | 8.2 | ND(2.5) | ND(2.5) | 1.4 J | 9.6 | 2310 | 1310 | 2580 | 126 |
| 05/17/2011 | 4.1 J | ND(5.0) | ND(5.0) | ND(5.0) | 4.1 | 2640 | 1660 | 2570 | 132 |
| 08/11/2011 | 9.7 | ND(5.0) | ND(5.0) | ND(5.0) | 9.7 | 3150 | 1460 | 1760 | 137 |
| 11/01/2011 | 14.9 | ND(5.0) | ND(5.0) | 1.5 J | 16.4 | 4180 | 2580 | 3530 | ND(100) |
| 05/01/2012 | 19.5 | ND(5.0) | ND(5.0) | 1.1 J | 20.6 | 4420 | 3130 | 5060 | ND(110) |

*BTEX - Benzene, Toluene, Ethylbenzene, Xylenes*
*MTBE - Methyl tert-Butyl Ether*
*TBA - Tertiary Butyl Alcohol*
*TPH-GRO - Total Petroleum Hydrocarbons Gasoline Range Organics*
*TPH-DRO - Total Petroleum Hydrocarbons Diesel Range Organics*

*ND - Not Detected (Reporting Limit Not Available)*
*ND (100) - Not Detected (Reporting Limit)*
*NS - Not Sampled*
*I - Results between Reporting Limit and Method Detection Limit*
*J - Estimated Value*

*(µg/L) - micrograms per Liter*

# *Table 2*
# *Summary of Groundwater Analytical Results*
# *Former Shell Service Station #137675*

| *Sample Date* | *Benzene (µg/L)* | *Toluene (µg/L)* | *Ethylbenzene (µg/L)* | *Total Xylenes (µg/L)* | *Total BTEX (µg/L)* | *MTBE (µg/L)* | *TBA (µg/L)* | *TPH-GRO (µg/L)* | *TPH-DRO (µg/L)* |
|---|---|---|---|---|---|---|---|---|---|
| **MW-14D** | | | | | | | | | |
| 11/25/2008 | 85.08 | ND(0.1601) | ND(0.1959) | 25.19 | 110.27 | 1099 | 496 | 1010 | 140 |
| 02/20/2009 | 5.28 | ND(0.1601) | ND(0.1959) | 2.23 | 7.51 | 469 | ND(2.0) | 264 | 93 I |
| 05/07/2009 | 2.68 | 0.68 I | ND(0.1959) | 0.86 | 4.22 | 86.81 | 40.6 | 31.0 | ND(25) |
| 09/23/2009 | 21.9 | ND(0.247) | ND(0.196) | 2.59 | 24.49 | 419 | 297 | 145 | ND(36) |
| 12/07/2009 | 5.35 | ND(1.24) | ND(0.98) | ND(3.48) | 5.35 | 424 | ND(75) | 205 | 77.0 I |
| 03/11/2010 | 0.66 | ND(0.494) | ND(0.392) | ND(1.391) | 0.66 | 329 | 39.4 | 116 | 44.0 |
| 05/17/2010 | 3.04 | ND(0.247) | ND(0.196) | ND(0.696) | 3.04 | 428 | 165 | 637 | ND(36) |
| 09/27/2010 | 33.7 | ND(0.201) | ND(0.21) | 3.75 | 37.45 | 764 | 578 | 559 | 60.0 I |
| 12/03/2010 | 46.5 | ND(2.01) | ND(2.1) | 6.01 | 52.51 | 1090 | 280 | 1090 | 97 I |
| 02/18/2011 | 79.6 | ND(5.0) | ND(5.0) | 16.2 | 95.8 | 1720 | 406 | 2060 | 134 |
| 05/17/2011 | 50.1 | ND(5.0) | ND(5.0) | 13.8 | 63.9 | 2250 | 517 | 1570 | 112 |
| 08/11/2011 | 7.1 | ND(1.0) | ND(1.0) | 0.32 J | 7.42 | 566 | 139 | 449 | ND(100) |
| 11/01/2011 | 48.1 | ND(2.0) | ND(2.0) | 12.9 | 61.0 | 2180 | 620 | 2520 | ND(100) |
| 05/01/2012 | 44.3 | ND(5.0) | ND(5.0) | 10.1 | 54.4 | 3890 | 980 | 4250 | ND(100) |
| **MW-14S** | | | | | | | | | |
| 11/25/2008 | 32.19 | ND(0.1601) | ND(0.1959) | 10.17 | 42.36 | 6667 | 2920 | 3000 | 150 |
| 02/20/2009 | 6.96 | ND(0.1601) | ND(0.1959) | 2.76 | 9.72 | 3583 | ND(2.0) | 2060 | 66.0 I |
| 05/07/2009 | 0.84 I | 0.77 I | ND(0.1959) | 0.57 | 2.18 | 2026 | 1550 | 610 | ND(25) |
| 09/23/2009 | 4.74 | 0.51 I | ND(0.196) | 1.49 | 6.74 | 2180 | 1300 | 825 | ND(36) |
| 12/07/2009 | 3.2 I | ND(2.47) | ND(1.96) | ND(6.96) | 3.2 | 2280 | ND(150) | 1090 | ND(36) |
| 03/11/2010 | ND(2.11) | ND(2.47) | ND(1.96) | ND(6.96) | ND(13.5) | 1670 | ND(150) | 812 | ND(36) |
| 05/17/2010 | 0.72 I | ND(0.247) | ND(0.196) | ND(0.696) | 0.72 | 618 | 154 | 255 | 39.0 I |
| 09/27/2010 | 26.7 | ND(0.201) | ND(0.21) | 7.05 | 33.75 | 6710 | 4770 | 5320 | 60.0 I |
| 12/03/2010 | 8.43 I | ND(5.03) | ND(5.25) | ND(16.9) | 8.43 | 4840 | ND(154) | 2980 | ND(40) |
| 02/18/2011 | 8.4 | ND(5.0) | ND(5.0) | 2.5 J | 10.9 | 3300 | 260 | 3190 | ND(110) |
| 05/17/2011 | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(4.0) | 651 | ND(50) | 658 | ND(100) |
| 08/11/2011 | 8.2 | ND(5.0) | ND(5.0) | 3.3 J | 11.5 | 2920 | 264 | 1540 | ND(100) |
| 11/01/2011 | 4.5 | ND(2.5) | ND(2.5) | 2.2 J | 6.7 | 1820 | 196 | 1600 | ND(100) |
| 05/01/2012 | 2.1 | ND(1.0) | ND(1.0) | 0.98 J | 3.08 | 1350 | 80.9 | 1430 | ND(100) |
| **MW-15D** | | | | | | | | | |
| 11/25/2008 | ND(0.2105) | ND(0.1601) | ND(0.1959) | ND(0.6946) | ND(1.2611) | 360.6 | 112 | 316 | 15.0 |
| 02/20/2009 | ND(0.2105) | ND(0.1601) | ND(0.1959) | ND(0.6946) | ND(1.2611) | 57.87 | ND(2.0) | ND(25) | 63.0 I |
| 05/07/2009 | ND(0.2105) | ND(0.1601) | ND(0.1959) | ND(0.6946) | ND(1.2611) | 236.6 | 99.2 | ND(25) | 52.0 |
| 09/23/2009 | ND(0.211) | ND(0.247) | ND(0.196) | 0.34 | 0.34 | 378 | 238 | 52.0 I | ND(36) |
| 12/07/2009 | ND(1.05) | ND(1.24) | ND(0.98) | ND(3.48) | ND(6.75) | 298 | ND(75) | 96 I | 66.0 I |

***BTEX - Benzene, Toluene, Ethylbenzene, Xylenes***
***MTBE - Methyl tert-Butyl Ether***
***TBA - Tertiary Butyl Alcohol***
***TPH-GRO - Total Petroleum Hydrocarbons Gasoline Range Organics***
***TPH-DRO - Total Petroleum Hydrocarbons Diesel Range Organics***

***ND - Not Detected (Reporting Limit Not Available)***
***ND (100) - Not Detected (Reporting Limit)***
***NS - Not Sampled***
***I - Results between Reporting Limit and Method Detection Limit***
***J - Estimated Value***

***(µg/L) - micrograms per Liter***

# *Table 2*
# *Summary of Groundwater Analytical Results*
# *Former Shell Service Station #137675*

| *Sample Date* | *Benzene (µg/L)* | *Toluene (µg/L)* | *Ethylbenzene (µg/L)* | *Total Xylenes (µg/L)* | *Total BTEX (µg/L)* | *MTBE (µg/L)* | *TBA (µg/L)* | *TPH-GRO (µg/L)* | *TPH-DRO (µg/L)* |
|---|---|---|---|---|---|---|---|---|---|
| **MW-15D** | | | | | | | | | |
| 03/11/2010 | ND(1.05) | ND(1.24) | ND(0.98) | ND(3.48) | ND(6.75) | 708 | ND(75) | 275 | 38.0 |
| 05/17/2010 | ND(2.11) | ND(2.47) | ND(1.96) | ND(6.96) | ND(13.5) | 588 | ND(150) | 406 | ND(36) |
| 09/27/2010 | 0.283 I | ND(0.201) | ND(0.21) | ND(0.676) | 0.283 | 768 | 625 | 596 | 60.0 I |
| 12/03/2010 | ND(2.49) | ND(2.01) | ND(2.1) | ND(6.76) | ND(13.36) | 685 | ND(61.4) | 569 | ND(40) |
| 02/17/2011 | 2.7 | ND(1.0) | ND(1.0) | ND(1.0) | 2.7 | 529 | 60.7 | 584 | ND(110) |
| 06/03/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 654 | 46.0 | 613 | ND(100) |
| 08/11/2011 | 1.3 | ND(1.0) | ND(1.0) | ND(1.0) | 1.3 | 513 | 37.1 | 327 | ND(100) |
| 11/01/2011 | 0.95 J | ND(1.0) | ND(1.0) | ND(1.0) | 0.95 | 547 | 67.8 | 650 | ND(100) |
| 05/01/2012 | 2.1 | ND(1.0) | ND(1.0) | ND(1.0) | 2.1 | 569 | 45.2 | 680 | ND(110) |
| **MW-15S** | | | | | | | | | |
| 11/25/2008 | 62.88 | ND(0.1601) | ND(0.1959) | 17.69 | 80.57 | 8463 | 3840 | 3650 | 165 |
| 02/20/2009 | 44.57 | ND(0.1601) | ND(0.1959) | 12.42 | 56.99 | 7870 | 2580 | 1950 | 140 |
| 05/07/2009 | 14.88 | 0.76 I | ND(0.1959) | 4.54 | 20.18 | 3296 | 2710 | 1160 | 53.0 |
| 09/23/2009 | 13.5 | 0.33 I | ND(0.196) | 3.7 | 17.53 | 5780 | 3740 | 2250 | 44.0 I |
| 12/07/2009 | 24.0 I | ND(12.4) | ND(9.8) | ND(34.8) | 24.0 | 6510 | 869 I | 2920 | 102 I |
| 03/11/2010 | 26.5 | ND(12.4) | ND(9.8) | ND(34.8) | 26.5 | 7150 | 1930 | 6540 | 69.0 |
| 05/17/2010 | 26.1 | ND(0.247) | ND(0.196) | 7.57 | 33.67 | 8600 | 4870 | 7140 | 84 I |
| 09/27/2010 | 28.7 | ND(0.201) | ND(0.21) | 9.42 | 38.12 | 8460 | 5870 | 6380 | 60.0 I |
| 12/03/2010 | 13.4 I | ND(10.1) | ND(10.5) | ND(33.9) | 13.4 | 6780 | ND(307) | 5200 | 68.0 I |
| 02/17/2011 | 11.8 | ND(10) | ND(10) | 3.8 J | 15.6 | 4410 | 620 | 4560 | ND(100) |
| 06/03/2011 | 6.1 | ND(5.0) | ND(5.0) | 2.0 J | 8.1 | 2750 | 277 | 2690 | ND(100) |
| 08/11/2011 | 14.3 J | ND(20) | ND(20) | ND(20) | 14.3 | 5140 | 468 J | 2630 | 122 |
| 11/01/2011 | 12.6 | ND(1.0) | ND(1.0) | 3.8 | 16.4 | 3590 | 441 | 3770 | ND(100) |
| 05/01/2012 | 2.4 | ND(1.0) | ND(1.0) | 0.55 J | 2.95 | 1260 | 55.8 | 1680 | ND(100) |
| **MW-16D** | | | | | | | | | |
| 05/07/2009 | ND(0.2105) | 1.42 | ND(0.1959) | ND(0.6946) | 1.42 | 431.6 | 255 | 128 | ND(25) |
| 09/23/2009 | 1.4 I | ND(1.24) | ND(0.98) | 1.9 | 3.3 | 393 | 139 | 74.0 I | ND(36) |
| 12/07/2009 | ND(0.526) | ND(0.618) | ND(0.49) | ND(1.739) | ND(3.373) | 267 | 49.1 I | 87 I | 413 I |
| 03/11/2010 | ND(0.526) | ND(0.618) | ND(0.49) | ND(1.739) | ND(3.373) | 472 | 42.2 | 234 | 36.0 |
| 05/17/2010 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 369 | 119 | 229 | ND(36) |
| 09/27/2010 | 78.9 | ND(0.201) | ND(0.21) | 12.0 | 90.9 | 3060 | 2320 | 2610 | 60.0 I |
| 12/03/2010 | ND(1.25) | ND(1.01) | ND(1.05) | ND(3.39) | ND(6.7) | 465 | 111 I | 366 | ND(40) |
| 02/18/2011 | 2.1 | ND(1.0) | ND(1.0) | ND(1.0) | 2.1 | 182 | 26.1 | ND(200) | ND(100) |
| 05/17/2011 | 2.3 | ND(1.0) | ND(1.0) | 0.40 J | 2.7 | 431 | 127 | 500 | ND(100) |
| 08/11/2011 | 0.70 J | ND(1.0) | ND(1.0) | 0.24 J | 0.94 | 503 | 121 | 305 | ND(100) |

***BTEX - Benzene, Toluene, Ethylbenzene, Xylenes***
***MTBE - Methyl tert-Butyl Ether***
***TBA - Tertiary Butyl Alcohol***
***TPH-GRO - Total Petroleum Hydrocarbons Gasoline Range Organics***
***TPH-DRO - Total Petroleum Hydrocarbons Diesel Range Organics***

***ND - Not Detected (Reporting Limit Not Available)***
***ND (100) - Not Detected (Reporting Limit)***
***NS - Not Sampled***
***I - Results between Reporting Limit and Method Detection Limit***
***J - Estimated Value***

***(µg/L) - micrograms per Liter***

# *Table 2*
# *Summary of Groundwater Analytical Results*
# *Former Shell Service Station #137675*

| Sample Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | Total BTEX (µg/L) | MTBE (µg/L) | TBA (µg/L) | TPH-GRO (µg/L) | TPH-DRO (µg/L) |
|---|---|---|---|---|---|---|---|---|---|
| **MW-16D** | | | | | | | | | |
| 11/01/2011 | 2.5 | ND(1.0) | ND(1.0) | 0.43 J | 2.93 | 471 | 158 | 614 | ND(100) |
| 05/01/2012 | 1.2 | ND(1.0) | ND(1.0) | 0.24 J | 1.44 | 529 | 130 | 660 | ND(100) |
| **MW-16S** | | | | | | | | | |
| 05/07/2009 | 87.87 | 1.57 | ND(0.1959) | 29.23 | 118.67 | 1269 | 892 | 683 | 100 |
| 09/23/2009 | 133 | 0.46 I | ND(0.196) | 39.8 | 173.26 | 3390 | 1630 | 1290 | 279 I |
| 12/07/2009 | 81 | ND(12.4) | ND(9.8) | 19.5 | 100.5 | 2190 | ND(750) | 1430 | 146 I |
| 03/11/2010 | 35.2 | ND(4.94) | ND(3.92) | 8.2 | 43.4 | 3110 | 587 | 1810 | 126 |
| 05/17/2010 | 38.3 | ND(0.247) | ND(0.196) | 9.94 | 48.24 | 1720 | 652 | 1510 | 77.0 I |
| 09/27/2010 | ND(0.249) | ND(0.201) | ND(0.21) | ND(0.676) | ND(1.336) | 507 | 365 | 359 | 60.0 I |
| 12/03/2010 | 71.8 | ND(5.03) | ND(5.25) | 16.8 | 88.6 | 3240 | 837 | 2900 | 211 I |
| 02/18/2011 | 48.8 | ND(5.0) | ND(5.0) | 9.1 | 57.9 | 2750 | 563 | 2800 | 157 |
| 05/17/2011 | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(4.0) | 597 | 50.0 | 633 | ND(100) |
| 08/11/2011 | 28.8 | ND(5.0) | ND(5.0) | 8.3 | 37.1 | 4410 | 773 | 2200 | 149 |
| 11/01/2011 | 19.8 | ND(5.0) | ND(5.0) | 1.6 J | 21.4 | 3130 | 811 | 3360 | ND(110) |
| 05/01/2012 | 22.5 | ND(5.0) | ND(5.0) | 2.4 J | 24.9 | 4030 | 1120 | 4440 | ND(100) |
| **MW-17D** | | | | | | | | | |
| 05/07/2009 | 0.52 I | 1.91 | ND(0.1959) | ND(0.6946) | 2.43 | 103.4 | 57.1 | ND(25) | 26.0 |
| 09/23/2009 | 0.84 I | ND(0.247) | ND(0.196) | ND(0.696) | 0.84 | 50.9 | 17.4 I | 15.0 I | ND(36) |
| 12/07/2009 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 48.5 | ND(15) | 30.0 I | 82 I |
| 03/11/2010 | 0.89 | ND(0.247) | ND(0.196) | ND(0.696) | 0.89 | 141 | 28.4 | 64.0 | 65.0 |
| 05/17/2010 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 196 | 54.6 | 110 | 85 I |
| 09/27/2010 | 12.6 | ND(0.201) | ND(0.21) | 0.631 | 13.231 | 540 | 433 | 451 | 60.0 I |
| 12/03/2010 | 8.09 | ND(1.01) | ND(1.05) | ND(3.39) | 8.09 | 390 | 86.2 I | 313 | ND(40) |
| 02/17/2011 | 12.5 | ND(1.0) | ND(1.0) | 0.79 J | 13.29 | 290 | 60.4 | 380 | ND(110) |
| 06/03/2011 | 17.0 | ND(1.0) | ND(1.0) | 0.31 J | 17.31 | 519 | 96.6 | 574 | ND(100) |
| 08/12/2011 | 0.64 J | ND(1.0) | ND(1.0) | ND(1.0) | 0.64 | 161 | 28.3 | 216 | ND(100) |
| 11/02/2011 | 8.3 | ND(1.0) | ND(1.0) | 0.31 J | 8.61 | 250 | 61.3 | 217 | ND(100) |
| 05/01/2012 | 5.1 | ND(1.0) | ND(1.0) | ND(1.0) | 5.1 | 252 | 59.2 | 355 | ND(110) |
| **MW-17S** | | | | | | | | | |
| 05/07/2009 | 24.95 | 0.83 I | ND(0.1959) | 6.2 | 31.98 | 971.3 | 667 | 380 | ND(25) |
| 09/23/2009 | 40.3 | ND(2.47) | ND(1.96) | 6.9 | 47.2 | 967 | 317 | 397 | 37.0 I |
| 12/07/2009 | 38.1 | ND(2.47) | ND(1.96) | 5.9 | 44.0 | 1020 | ND(150) | 495 | 100 I |
| 03/11/2010 | 25.8 | ND(1.24) | ND(0.98) | 3.3 | 29.1 | 742 | 109 | 463 | 44.0 |
| 05/17/2010 | 7.27 | ND(0.247) | ND(0.196) | 0.84 | 8.11 | 341 | 89.6 | 244 | ND(36) |
| 09/27/2010 | 49.2 | ND(0.201) | ND(0.21) | 0.829 | 50.029 | 971 | 748 | 881 | 60.0 I |

*BTEX - Benzene, Toluene, Ethylbenzene, Xylenes*
*MTBE - Methyl tert-Butyl Ether*
*TBA - Tertiary Butyl Alcohol*
*TPH-GRO - Total Petroleum Hydrocarbons Gasoline Range Organics*
*TPH-DRO - Total Petroleum Hydrocarbons Diesel Range Organics*

*ND - Not Detected (Reporting Limit Not Available)*
*ND (100) - Not Detected (Reporting Limit)*
*NS - Not Sampled*
*I - Results between Reporting Limit and Method Detection Limit*
*J - Estimated Value*

*(µg/L) - micrograms per Liter*

# *Table 2*
# *Summary of Groundwater Analytical Results*
# *Former Shell Service Station #137675*

| Sample Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | Total BTEX (µg/L) | MTBE (µg/L) | TBA (µg/L) | TPH-GRO (µg/L) | TPH-DRO (µg/L) |
|---|---|---|---|---|---|---|---|---|---|
| **MW-17S** | | | | | | | | | |
| 12/03/2010 | 54.3 | ND(2.01) | ND(2.1) | 4.42 | 58.72 | 1290 | 177 I | 1190 | 67.0 I |
| 02/17/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 35.6 | ND(25) | ND(200) | ND(100) |
| 06/03/2011 | 21.5 | ND(1.0) | ND(1.0) | 0.79 J | 22.29 | 798 | 105 | 810 | ND(100) |
| 08/11/2011 | 32.6 | ND(2.0) | ND(2.0) | 3.2 | 35.8 | 1110 | 171 | 736 | ND(100) |
| 11/02/2011 | 20.0 | ND(2.5) | ND(2.5) | 1.1 J | 21.1 | 827 | 155 | 444 | ND(100) |
| 05/01/2012 | 12.4 | ND(1.0) | ND(1.0) | ND(1.0) | 12.4 | 832 | 187 | 1060 | ND(100) |
| **MW-17W** | | | | | | | | | |
| 05/07/2009 | 1.06 | 2.38 | ND(0.1959) | 0.77 | 4.21 | 67.23 | 38.4 | ND(25) | ND(25) |
| 09/23/2009 | 0.55 I | 0.63 I | ND(0.196) | ND(0.696) | 1.18 | 46.8 | 17.4 I | 23.0 I | 74.0 I |
| 12/07/2009 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 41.9 | ND(15) | 27.0 I | 128 I |
| 03/11/2010 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 30.3 | ND(15) | 34.0 | 42.0 |
| 05/17/2010 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 3.05 | ND(15) | ND(25) | ND(36) |
| 09/27/2010 | ND(0.249) | ND(0.201) | ND(0.21) | ND(0.676) | ND(1.336) | 50.6 | 32.2 | 72.0 I | ND(36) |
| 12/03/2010 | ND(0.249) | ND(0.201) | ND(0.21) | ND(0.676) | ND(1.336) | 92.1 | ND(6.14) | 75.0 I | 46.0 I |
| 02/17/2011 | 59.8 | ND(1.0) | ND(1.0) | 7.8 | 67.6 | 1080 | 168 | 1230 | ND(100) |
| 06/03/2011 | 1.4 | ND(1.0) | ND(1.0) | ND(1.0) | 1.4 | 49.4 | ND(25) | ND(200) | ND(100) |
| 08/12/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 61.2 | ND(25) | ND(200) | ND(100) |
| 11/02/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 49.6 | ND(25) | ND(200) | 199 |
| 05/02/2012 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 48.8 | ND(25) | ND(200) | ND(100) |
| **MW-18** | | | | | | | | | |
| 05/07/2009 | ND(0.2105) | 1.73 | ND(0.1959) | 0.95 | 2.68 | 800.8 | 502 | 219 | 110 |
| 08/24/2009 | 0.47 I | ND(0.247) | ND(0.196) | 2.88 | 3.35 | 1070 | 587 | NS | NS |
| 09/23/2009 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 733 | 394 | 164 | ND(36) |
| 12/07/2009 | ND(2.11) | 2.97 I | ND(1.96) | ND(6.96) | 2.97 | 836 | ND(150) | 485 | ND(36) |
| 03/11/2010 | ND(1.05) | ND(1.24) | ND(0.98) | ND(3.48) | ND(6.75) | 769 | ND(75) | 429 | 45.0 |
| 05/17/2010 | ND(0.211) | ND(0.247) | ND(0.196) | 0.57 | 0.57 | 1020 | 325 | 748 | ND(36) |
| 09/27/2010 | ND(0.249) | ND(0.201) | ND(0.21) | ND(0.676) | ND(1.336) | 94.4 | 99.8 | 112 | ND(36) |
| 12/06/2010 | 2.02 I | ND(1.01) | ND(1.05) | ND(3.39) | 2.02 | 282 | 34.9 I | 231 | ND(40) |
| 02/16/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 762 | 30.7 | 828 | ND(110) |
| 05/19/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 711 | 89.4 | 769 | ND(100) |
| 08/12/2011 | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | ND(8.0) | 1500 | 59.1 | 1590 | ND(100) |
| 11/01/2011 | ND(1.0) | ND(1.0) | ND(1.0) | 1.8 | 1.8 | 2080 | 343 | 2280 | ND(100) |
| 05/02/2012 | ND(2.5) | ND(2.5) | ND(2.5) | 2.0 J | 2.0 | 2330 | 374 | 3000 | ND(100) |
| **MW-24D** | | | | | | | | | |
| 12/06/2010 | ND(0.249) | ND(0.201) | ND(0.21) | ND(0.676) | ND(1.336) | 36.9 | 43.7 | 55.0 I | 56.0 I |

*BTEX - Benzene, Toluene, Ethylbenzene, Xylenes*
*MTBE - Methyl tert-Butyl Ether*
*TBA - Tertiary Butyl Alcohol*
*TPH-GRO - Total Petroleum Hydrocarbons Gasoline Range Organics*
*TPH-DRO - Total Petroleum Hydrocarbons Diesel Range Organics*

*ND - Not Detected (Reporting Limit Not Available)*
*ND (100) - Not Detected (Reporting Limit)*
*NS - Not Sampled*
*I - Results between Reporting Limit and Method Detection Limit*
*J - Estimated Value*

*(µg/L) - micrograms per Liter*

# *Table 2*
# *Summary of Groundwater Analytical Results*
# *Former Shell Service Station #137675*

| *Sample Date* | *Benzene (µg/L)* | *Toluene (µg/L)* | *Ethylbenzene (µg/L)* | *Total Xylenes (µg/L)* | *Total BTEX (µg/L)* | *MTBE (µg/L)* | *TBA (µg/L)* | *TPH-GRO (µg/L)* | *TPH-DRO (µg/L)* |
|---|---|---|---|---|---|---|---|---|---|
| **MW-24D** | | | | | | | | | |
| 02/17/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 13.8 | ND(25) | ND(200) | ND(100) |
| 05/17/2011 | NS | NS | NS | NS | NS | NS | NS | NS | 178 |
| 06/03/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 10.3 | ND(25) | ND(200) | NS |
| 08/12/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 13.8 | ND(25) | ND(200) | ND(100) |
| 11/02/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 12.7 | ND(25) | ND(200) | ND(100) |
| 02/02/2012 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 10.5 | ND(25) | NS | NS |
| 05/02/2012 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 8.8 | ND(25) | ND(200) | ND(100) |
| **MW-24S** | | | | | | | | | |
| 12/06/2010 | 1.83 I | ND(1.01) | ND(1.05) | ND(3.39) | 1.83 | 261 | 266 | 278 | ND(36) |
| 02/18/2011 | 3.8 | ND(1.0) | ND(1.0) | 0.55 J | 4.35 | 266 | 75.5 | 340 | ND(100) |
| 05/17/2011 | NS | NS | NS | NS | NS | NS | NS | NS | 179 |
| 06/03/2011 | 3.8 | ND(1.0) | ND(1.0) | 1.1 | 4.9 | 326 | 101 | 351 | NS |
| 08/11/2011 | 5.5 | ND(1.0) | ND(1.0) | 0.60 J | 6.1 | 352 | 120 | 252 | ND(110) |
| 11/02/2011 | 4.5 | ND(1.0) | ND(1.0) | 0.19 J | 4.69 | 240 | 112 | ND(200) | ND(100) |
| 02/02/2012 | 3.3 | ND(1.0) | ND(1.0) | ND(1.0) | 3.3 | 275 | ND(25) | NS | NS |
| 05/02/2012 | 3.8 | ND(1.0) | ND(1.0) | ND(1.0) | 3.8 | 185 | 74.9 | 287 | ND(100) |
| **MW-25D** | | | | | | | | | |
| 12/06/2010 | ND(0.249) | ND(0.201) | ND(0.21) | ND(0.676) | ND(1.336) | 102 | 104 | 120 | 404 I |
| 02/17/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 119 | 14.8 J | ND(200) | ND(110) |
| 05/17/2011 | NS | NS | NS | NS | NS | NS | NS | NS | 140 |
| 06/03/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 117 | 9.3 J | ND(200) | NS |
| 08/12/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 81.1 | ND(25) | ND(200) | ND(100) |
| 11/02/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 92.4 | ND(25) | ND(200) | ND(100) |
| 02/02/2012 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 86.3 | ND(25) | NS | NS |
| 05/02/2012 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 80.2 | 7.4 J | ND(200) | ND(100) |
| **MW-25S** | | | | | | | | | |
| 12/06/2010 | 4.0 I | ND(1.01) | ND(1.05) | ND(3.39) | 4.0 | 291 | 283 | 285 | ND(36) |
| 02/17/2011 | 1.1 | ND(1.0) | ND(1.0) | ND(1.0) | 1.1 | 170 | 11.6 J | 221 | ND(100) |
| 05/17/2011 | NS | NS | NS | NS | NS | NS | NS | NS | ND(100) |
| 06/03/2011 | 0.86 J | ND(1.0) | ND(1.0) | ND(1.0) | 0.86 | 98.1 | ND(25) | ND(200) | NS |
| 08/11/2011 | 0.89 J | ND(1.0) | ND(1.0) | ND(1.0) | 0.89 | 86.1 | ND(25) | ND(200) | ND(100) |
| 11/02/2011 | 0.42 J | ND(1.0) | ND(1.0) | ND(1.0) | 0.42 | 36.1 | ND(25) | ND(200) | ND(100) |
| 02/02/2012 | 0.48 J | ND(1.0) | ND(1.0) | ND(1.0) | 0.48 | 28.4 | ND(25) | NS | NS |
| 05/02/2012 | 0.23 J | ND(1.0) | ND(1.0) | ND(1.0) | 0.23 | 18.9 | ND(25) | ND(200) | ND(100) |

*BTEX - Benzene, Toluene, Ethylbenzene, Xylenes*
*MTBE - Methyl tert-Butyl Ether*
*TBA - Tertiary Butyl Alcohol*
*TPH-GRO - Total Petroleum Hydrocarbons Gasoline Range Organics*
*TPH-DRO - Total Petroleum Hydrocarbons Diesel Range Organics*

*ND - Not Detected (Reporting Limit Not Available)*
*ND (100) - Not Detected (Reporting Limit)*
*NS - Not Sampled*
*I - Results between Reporting Limit and Method Detection Limit*
*J - Estimated Value*

*(µg/L) - micrograms per Liter*

# *Table 2*
# *Summary of Groundwater Analytical Results*
# *Former Shell Service Station #137675*

| *Sample Date* | *Benzene (µg/L)* | *Toluene (µg/L)* | *Ethylbenzene (µg/L)* | *Total Xylenes (µg/L)* | *Total BTEX (µg/L)* | *MTBE (µg/L)* | *TBA (µg/L)* | *TPH-GRO (µg/L)* | *TPH-DRO (µg/L)* |
|---|---|---|---|---|---|---|---|---|---|
| **MW-26D** | | | | | | | | | |
| 12/06/2010 | ND(2.49) | ND(2.01) | ND(2.1) | ND(6.76) | ND(13.36) | 1260 | 1240 | 2090 | 45.0 I |
| 01/11/2011 | NS | NS | NS | NS | NS | 1490 | NS | NS | NS |
| 02/17/2011 | 2.3 | ND(1.0) | ND(1.0) | 0.81 J | 3.11 | 1630 | 83.8 | 1770 | ND(100) |
| 03/07/2011 | NS | NS | NS | NS | NS | 1560 | NS | NS | NS |
| 04/18/2011 | NS | NS | NS | NS | NS | 1940 | NS | NS | NS |
| 05/17/2011 | NS | NS | NS | NS | NS | NS | NS | NS | ND(110) |
| 06/03/2011 | 2.8 | ND(2.0) | ND(2.0) | 0.70 J | 3.5 | 1860 | 102 | 1250 | NS |
| 07/20/2011 | NS | NS | NS | NS | NS | 1800 | NS | NS | NS |
| 08/11/2011 | 1.8 J | ND(5.0) | ND(5.0) | ND(5.0) | 1.8 | 1890 | 61.7 J | 1020 | ND(100) |
| 11/01/2011 | 3.0 | ND(1.0) | ND(1.0) | 0.47 J | 3.47 | 1630 | 127 | 1690 | ND(100) |
| 02/02/2012 | 2.3 J | ND(10) | ND(10) | ND(10) | 2.3 | 1450 | ND(250) | NS | NS |
| 05/02/2012 | 2.5 | ND(1.0) | ND(1.0) | ND(1.0) | 2.5 | 1430 | 87.2 | 1630 | ND(110) |
| **MW-26S** | | | | | | | | | |
| 12/06/2010 | ND(0.249) | ND(0.201) | ND(0.21) | ND(0.676) | ND(1.336) | 96.7 | 90.5 | 96 I | 39.0 I |
| 01/11/2011 | NS | NS | NS | NS | NS | 31.4 | NS | NS | NS |
| 02/17/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 267 | ND(25) | 322 | ND(100) |
| 03/07/2011 | NS | NS | NS | NS | NS | 210 | NS | NS | NS |
| 04/18/2011 | NS | NS | NS | NS | NS | 22.3 | NS | NS | NS |
| 05/17/2011 | NS | NS | NS | NS | NS | NS | NS | NS | 180 |
| 06/03/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 40.1 | ND(25) | ND(200) | NS |
| 07/20/2011 | NS | NS | NS | NS | NS | 183 | NS | NS | NS |
| 08/11/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 104 | ND(25) | ND(200) | ND(110) |
| 11/01/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 119 | ND(25) | 221 | ND(100) |
| 02/02/2012 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 51.2 | ND(25) | NS | NS |
| 05/02/2012 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 9.0 | ND(25) | ND(200) | ND(100) |
| **RW-01** | | | | | | | | | |
| 01/06/2004 | 17.4 | 2.6 | 3.3 | 38.9 | 62.2 | 156 | ND(5.0) | 1000 | 469 |
| 04/05/2004 | 65.1 | 1.5 | 5.1 | 13.0 | 84.7 | 116 | ND(5.0) | 1370 | 275 |
| 07/01/2004 | 102 | 1.8 | 6.5 | 12.3 | 122.6 | 69.3 | ND(10) | 8450 | 417 |
| 10/05/2004 | 24.2 | 25.1 | 8.6 | 112 | 169.9 | 1990 | 1360 | 845 | ND |
| 01/03/2005 | 2.4 | 8.4 | 4.7 | 65.7 | 81.2 | 9.2 | ND(25) | 498 | 170 |
| 04/13/2005 | 6.5 | 20.6 | 23.4 | 127 | 177.5 | 10.1 | ND(25) | 2030 | 339 |
| 08/17/2005 | 1.2 | 2.3 | 2.0 | 43.8 | 49.3 | 8.7 | ND | 335 | 189 |
| 11/17/2005 | ND | 0.59 | ND | 5.0 | 5.59 | 5.4 | ND | ND | ND |
| 03/30/2006 | 1.7 | 5.5 | 4.02 | 48.0 | 59.22 | 8.43 | ND | 205 | 191 |

*BTEX - Benzene, Toluene, Ethylbenzene, Xylenes*
*MTBE - Methyl tert-Butyl Ether*
*TBA - Tertiary Butyl Alcohol*
*TPH-GRO - Total Petroleum Hydrocarbons Gasoline Range Organics*
*TPH-DRO - Total Petroleum Hydrocarbons Diesel Range Organics*

*ND - Not Detected (Reporting Limit Not Available)*
*ND (100) - Not Detected (Reporting Limit)*
*NS - Not Sampled*
*I - Results between Reporting Limit and Method Detection Limit*
*J - Estimated Value*

*(µg/L) - micrograms per Liter*

# *Table 2*
# *Summary of Groundwater Analytical Results*
# *Former Shell Service Station #137675*

| *Sample Date* | *Benzene (µg/L)* | *Toluene (µg/L)* | *Ethylbenzene (µg/L)* | *Total Xylenes (µg/L)* | *Total BTEX (µg/L)* | *MTBE (µg/L)* | *TBA (µg/L)* | *TPH-GRO (µg/L)* | *TPH-DRO (µg/L)* |
|---|---|---|---|---|---|---|---|---|---|
| **RW-01** | | | | | | | | | |
| 06/29/2006 | 4.8 | 3.8 | 7.74 | 44.4 | 60.74 | 101 | 152 | 247 | 106 |
| 09/28/2006 | 5.27 | 5.18 | 5.68 | 49.4 | 65.53 | 6.44 | ND(10) | 299 | 227 |
| 12/19/2006 | 1.22 | 2.13 | 2.26 | 13.0 | 18.61 | 7.62 | ND(20) | 197 | ND(101) |
| 03/06/2007 | 1.7 | 4.6 | 6.9 | 39.0 | 52.2 | 10.4 | ND(20) | 193 | 700 |
| 06/22/2007 | 3.48 | ND(1.0) | ND(1.0) | 8.49 | 11.97 | 76.1 | 101 | ND(100) | ND(111) |
| 09/25/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 7.93 | ND(20) | ND(100) | ND(100) |
| 12/05/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 6.64 | ND(20) | 124 | ND(105) |
| 03/25/2008 | ND(5.0) | ND(5.0) | ND(5.0) | 6.4 | 6.4 | 6.8 | ND(100) | ND(100) | ND(50) |
| 06/24/2008 | 2.0 | ND(1.0) | ND(1.0) | 16.8 | 18.8 | 8.6 | 7.4 | 170 | ND(50) |
| 09/15/2008 | ND(0.16) | ND(0.14) | ND(0.19) | ND(0.71) | ND(1.2) | ND(0.18) | ND(1.0) | ND(20) | 140 I |
| 12/12/2008 | ND(0.2105) | ND(0.1601) | ND(0.1959) | ND(0.6946) | ND(1.2611) | 8.83 | ND(2.0) | 36.0 I | ND(13) |
| 02/20/2009 | ND(0.2105) | ND(0.1601) | ND(0.1959) | ND(0.6946) | ND(1.2611) | 8.73 | ND(2.0) | ND(25) | 31.0 I |
| 05/07/2009 | 3.36 | 4.04 | 3.73 | 37.66 | 48.79 | ND(0.2562) | ND(2.0) | 226 | 120 |
| 09/23/2009 | 0.23 I | ND(0.247) | 0.36 I | 1.1 | 1.69 | 5.56 | ND(15) | 56.0 I | ND(36) |
| 12/07/2009 | 3.0 | 2.89 | 9.13 | 65.0 | 80.02 | 5.85 | ND(15) | 332 | 58.0 I |
| 03/11/2010 | 6.22 | 5.37 | 13.2 | 140.3 | 165.09 | 7.13 | ND(15) | 607 | 230 |
| 05/17/2010 | 8.92 | 2.77 | 9.24 | 88.9 | 109.83 | 6.51 | ND(15) | 540 | 153 I |
| 09/27/2010 | 1.64 | 2.07 | 2.28 | 16.72 | 22.71 | 5.22 | ND(6.14) | 93 I | 90 I |
| 12/02/2010 | 2.45 | 3.13 | 14.9 | 61.5 | 81.98 | 5.2 | 11.1 I | 328 | 192 I |
| 02/18/2011 | 0.74 J | 0.54 J | 1.8 | 9.3 | 12.38 | 3.1 | ND(25) | ND(200) | ND(110) |
| 05/20/2011 | 2.4 | 1.5 | 3.9 | 46.9 | 54.7 | 3.5 | ND(25) | 235 | ND(100) |
| 08/10/2011 | 0.84 J | 0.28 J | 1.2 | 3.5 | 5.82 | 3.1 | ND(25) | ND(200) | ND(100) |
| 11/03/2011 | 0.99 J | 0.60 J | 3.5 | 13.0 | 18.09 | 2.7 | ND(25) | ND(200) | ND(100) |
| 02/01/2012 | 1.1 | 0.80 J | 3.8 | 18.7 | 24.4 | 2.9 | ND(25) | NS | NS |
| 05/04/2012 | 0.27 J | ND(1.0) | 0.35 J | 7.8 | 8.42 | ND(1.0) | ND(25) | ND(200) | 150 |
| **RW-03** | | | | | | | | | |
| 01/06/2004 | ND(22) | 191 | ND(13) | ND(18) | 191 | 67600 | ND(740) | 81200 | 312 |
| 04/05/2004 | ND | ND | ND | ND | ND | 125000 | ND | 145000 | ND |
| 07/08/2004 | 110 | 158 | ND(200) | ND(200) | 268 | 123000 | 8530 | 141000 | 895 |
| 10/05/2004 | 39.7 | 10.4 | ND | 41.4 | 91.5 | 18100 | 12300 | 15200 | ND |
| 01/03/2005 | 40.1 | 4.7 | ND | 6.7 | 51.5 | 21800 | 16600 | 18800 | 159 |
| 04/13/2005 | 83.8 | 152 | 6.0 | 53.6 | 295.4 | 11200 | 18800 | 20500 | 1280 |
| 08/17/2005 | 40.1 | ND | ND | 10.2 | 50.3 | 17500 | 14000 | 18800 | 190 |
| 11/17/2005 | 10.3 | ND | ND | ND | 10.3 | 14000 | 15400 | 9090 | ND |
| 03/30/2006 | 12.2 | 7.75 | 9.64 | 68.4 | 97.99 | 90.2 | 252 | 237 | 204 |

***BTEX - Benzene, Toluene, Ethylbenzene, Xylenes***
***MTBE - Methyl tert-Butyl Ether***
***TBA - Tertiary Butyl Alcohol***
***TPH-GRO - Total Petroleum Hydrocarbons Gasoline Range Organics***
***TPH-DRO - Total Petroleum Hydrocarbons Diesel Range Organics***

***ND - Not Detected (Reporting Limit Not Available)***
***ND (100) - Not Detected (Reporting Limit)***
***NS - Not Sampled***
***I - Results between Reporting Limit and Method Detection Limit***
***J - Estimated Value***

***(µg/L) - micrograms per Liter***

# *Table 2*
# *Summary of Groundwater Analytical Results*
# *Former Shell Service Station #137675*

| *Sample Date* | *Benzene (µg/L)* | *Toluene (µg/L)* | *Ethylbenzene (µg/L)* | *Total Xylenes (µg/L)* | *Total BTEX (µg/L)* | *MTBE (µg/L)* | *TBA (µg/L)* | *TPH-GRO (µg/L)* | *TPH-DRO (µg/L)* |
|---|---|---|---|---|---|---|---|---|---|
| **RW-03** | | | | | | | | | |
| 06/29/2006 | 1.9 | ND | ND | ND | 1.9 | 420 | 711 | 495 | 109 |
| 09/29/2006 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 27.5 | 53.3 | ND(100) | 611 |
| 12/19/2006 | 1.99 | ND(1.0) | ND(1.0) | ND(3.0) | 1.99 | 122 | 252 | 180 | 189 |
| 03/06/2007 | 4.4 | ND(2.0) | ND(2.0) | ND(6.0) | 4.4 | 156 | 369 | 154 | 230 |
| 06/22/2007 | 4.56 | ND(1.0) | ND(1.0) | 4.92 | 9.48 | 105 | 133 | ND(100) | 179 |
| 09/25/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 7.96 | ND(20) | ND(100) | ND(105) |
| 12/05/2007 | 5.22 | ND(1.0) | ND(1.0) | ND(3.0) | 5.22 | 62.4 | 175 | 154 | ND(105) |
| 03/25/2008 | ND(5.0) | ND(5.0) | ND(5.0) | ND(5.0) | ND(20) | 72.0 | 120 | 140 | ND(50) |
| 06/24/2008 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 71.0 | 90 | 150 | 140 |
| 09/15/2008 | ND(0.16) | ND(0.14) | ND(0.19) | ND(0.71) | ND(1.2) | 54.0 | ND(1.0) | 110 | 190 I |
| 12/12/2008 | ND(0.2105) | ND(0.1601) | ND(0.1959) | ND(0.6946) | ND(1.2611) | 75.42 | 117 | 187 | 86 |
| 02/20/2009 | 0.7867 I | 0.5624 I | ND(0.1959) | 0.5052 | 1.8543 | 51.54 | 42.0 | 85 | 97 I |
| 05/07/2009 | ND(0.2105) | 0.95 I | ND(0.1959) | ND(0.6946) | 0.95 | 34.43 | 45.5 | 50.0 | 100 |
| 09/23/2009 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 14.4 | ND(15) | 100 | ND(36) |
| 12/07/2009 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 17.7 | 19.5 I | 49.0 I | ND(36) |
| 03/11/2010 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 3.05 | ND(15) | 30.0 | ND(36) |
| 05/17/2010 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 2.08 | ND(15) | 27.0 I | 45.0 I |
| 09/27/2010 | ND(0.249) | ND(0.201) | ND(0.21) | ND(0.676) | ND(1.336) | 8.66 | 10.0 I | ND(25) | ND(36) |
| 12/02/2010 | ND(0.249) | ND(0.201) | ND(0.21) | ND(0.676) | ND(1.336) | 6.91 | ND(6.14) | 29.0 I | ND(36) |
| 02/18/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 7.0 | ND(25) | ND(200) | ND(110) |
| 05/20/2011 | 1.1 | 0.71 J | 1.6 | 20.7 | 24.11 | 3.5 | ND(25) | ND(200) | ND(100) |
| 08/10/2011 | 0.62 J | 0.18 J | 0.96 J | 2.7 | 4.46 | 2.8 | ND(25) | ND(200) | ND(100) |
| 11/03/2011 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | ND(4.0) | 4.1 | ND(25) | ND(200) | ND(100) |
| 02/01/2012 | 1.1 | 0.72 J | 2.9 | 14.2 | 18.92 | 3.0 | ND(25) | NS | NS |
| 05/04/2012 | 2.0 | ND(1.0) | ND(1.0) | ND(1.0) | 2.0 | 1.1 | ND(25) | ND(200) | ND(110) |
| **RW-10** | | | | | | | | | |
| 04/05/2004 | 354 | 153 | 208 | 183 | 898 | 43500 | 23200 | 64100 | ND |
| 07/01/2004 | 784 | 86.9 | 858 | 363 | 2091.9 | 34200 | 28600 | 85500 | 2280 |
| 10/05/2004 | 675 | 74.5 | 45.6 | 301 | 1096.1 | 34600 | 18700 | 6990 | 605 |
| 01/03/2005 | 139 | 20.6 | 16.9 | 155 | 331.5 | 8850 | 2670 | 9450 | 826 |
| 04/13/2005 | 490 | 295 | 73.6 | 527 | 1385.6 | 45800 | 9630 | 40100 | 462 |
| 08/17/2005 | 442 | 58.4 | ND | 415 | 915.4 | 36800 | 8460 | 70800 | 589 |
| 11/17/2005 | 114 | ND | 17.2 | 147 | 278.2 | 20700 | 10400 | 39500 | 631 |
| 03/30/2006 | 64.8 | 18.6 | 40.4 | 129 | 252.8 | 1110 | 942 | 2150 | 707 |
| 06/29/2006 | 139 | 8.8 | 101 | 207 | 455.8 | 152 | 304 | 2390 | 896 |

***BTEX - Benzene, Toluene, Ethylbenzene, Xylenes***
***MTBE - Methyl tert-Butyl Ether***
***TBA - Tertiary Butyl Alcohol***
***TPH-GRO - Total Petroleum Hydrocarbons Gasoline Range Organics***
***TPH-DRO - Total Petroleum Hydrocarbons Diesel Range Organics***

***ND - Not Detected (Reporting Limit Not Available)***
***ND (100) - Not Detected (Reporting Limit)***
***NS - Not Sampled***
***I - Results between Reporting Limit and Method Detection Limit***
***J - Estimated Value***

***(µg/L) - micrograms per Liter***

# *Table 2*
# *Summary of Groundwater Analytical Results*
# *Former Shell Service Station #137675*

| *Sample Date* | *Benzene (µg/L)* | *Toluene (µg/L)* | *Ethylbenzene (µg/L)* | *Total Xylenes (µg/L)* | *Total BTEX (µg/L)* | *MTBE (µg/L)* | *TBA (µg/L)* | *TPH-GRO (µg/L)* | *TPH-DRO (µg/L)* |
|---|---|---|---|---|---|---|---|---|---|
| **RW-10** | | | | | | | | | |
| 09/29/2006 | 175 | 4.74 | 126 | 153 | 458.74 | 35.8 | 203 | 812 | 927 |
| 03/06/2007 | 36.0 | 6.4 | 15.0 | 56.0 | 113.4 | 190 | 241 | 557 | 1200 |
| 06/22/2007 | 3.67 | 1.41 | 1.46 | 13.2 | 19.74 | 59.7 | 75.4 | ND(100) | 183 |
| 09/25/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 7.81 | ND(20) | ND(100) | ND(100) |
| 12/05/2007 | 1.79 | ND(1.0) | ND(1.0) | ND(3.0) | 1.79 | 23.9 | 56.8 | 126 | ND(105) |
| 03/25/2008 | 46.0 | ND(5.0) | ND(5.0) | ND(5.0) | 46.0 | 100 | 240 | 380 | 380 |
| 06/24/2008 | 110 | 3.8 | 20.0 | 70.0 | 203.8 | 160 | 380 | 1100 | 1600 |
| 09/15/2008 | 4.3 | ND(0.14) | ND(0.19) | ND(0.71) | 4.3 | 90 | ND(1.0) | 170 | 440 |
| 12/12/2008 | ND(0.2105) | ND(0.1601) | ND(0.1959) | ND(0.6946) | ND(1.2611) | ND(0.2562) | ND(2.0) | ND(25) | 20.0 I |
| 02/20/2009 | 4.454 | 0.5923 I | ND(0.1959) | 1.61 | 6.6563 | 74.32 | 127 | 150 | 980 |
| 05/07/2009 | 13.93 | 0.94 I | 2.71 | 6.38 | 23.96 | 82.5 | 245 | 185 | 150 |
| 09/23/2009 | 33.0 | 1.62 | 8.57 | 50.4 | 93.59 | 66.6 | 262 | 332 | 230 I |
| 12/07/2009 | 35.7 | 1.77 | 21.7 | 98.6 | 157.77 | 46.7 | 341 | 633 | 502 I |
| 03/11/2010 | 39.9 | 0.93 | 2.12 | 24.5 | 67.45 | 33.6 | 112 | 294 | 292 |
| 05/17/2010 | 30.5 | 0.51 I | 1.19 | 6.85 | 39.05 | 41.1 | 138 | 192 | 156 I |
| 09/27/2010 | 7.81 | 0.236 I | 4.07 | 11.17 | 23.286 | 16.9 | 138 | 109 | 253 I |
| 12/02/2010 | 29.9 | 0.91 I | 6.58 | 46.1 | 83.49 | 27.7 | 218 | 339 | 443 I |
| 02/18/2011 | 5.7 | 0.31 J | 4.3 | 11.3 | 21.61 | 17.4 | 221 | ND(200) | 338 |
| 05/20/2011 | 36.7 | 1.1 | 9.9 | 32.0 | 79.7 | 25.9 | 105 | 210 | 332 |
| 08/10/2011 | 0.56 J | ND(1.0) | 0.65 J | 2.3 | 3.51 | 2.9 | ND(25) | ND(200) | ND(100) |
| 11/03/2011 | 9.1 | 0.52 J | 4.7 | 19.7 | 34.02 | 10.4 | 189 | 232 | 258 |
| 02/01/2012 | 14.3 | 0.52 J | 1.7 | 9.9 | 26.42 | 16.1 | 82 | NS | NS |
| **RW-19** | | | | | | | | | |
| 09/27/2010 | 2.82 | ND(0.201) | ND(0.21) | 1.4 | 4.22 | 294 | 198 | 228 | ND(36) |
| 12/06/2010 | ND(0.249) | ND(0.201) | ND(0.21) | ND(0.676) | ND(1.336) | 66.7 | ND(6.14) | 59.0 I | 111 I |
| 02/17/2011 | 0.61 J | ND(1.0) | ND(1.0) | 0.50 J | 1.11 | 538 | 31.4 | 690 | ND(120) |
| 05/20/2011 | 3.0 | ND(1.0) | ND(1.0) | 1.1 | 4.1 | 620 | 83.9 | 426 | ND(100) |
| 08/09/2011 | 3.0 | ND(1.0) | ND(1.0) | 0.67 J | 3.67 | 703 | 85.6 | 827 | ND(100) |
| 10/31/2011 | 2.4 | ND(1.0) | ND(1.0) | 0.26 J | 2.66 | 702 | 90.7 | 851 | ND(100) |
| 02/01/2012 | 2.6 | ND(1.0) | ND(1.0) | 0.53 J | 3.13 | 760 | 86.4 | NS | NS |
| 05/03/2012 | 0.83 J | ND(1.0) | ND(1.0) | ND(1.0) | 0.83 | 622 | 40.6 | 693 | ND(100) |
| **RW-20** | | | | | | | | | |
| 12/06/2010 | ND(12.5) | ND(10.1) | ND(10.5) | ND(33.9) | ND(67) | 5430 | 1740 | 3400 | 406 I |
| 02/17/2011 | 14.3 | ND(1.0) | ND(1.0) | 1.4 | 15.7 | 3210 | 538 | 3510 | 170 |
| 05/20/2011 | 5.5 | ND(5.0) | ND(5.0) | ND(5.0) | 5.5 | 1630 | 187 | 1100 | ND(100) |

***BTEX - Benzene, Toluene, Ethylbenzene, Xylenes***
***MTBE - Methyl tert-Butyl Ether***
***TBA - Tertiary Butyl Alcohol***
***TPH-GRO - Total Petroleum Hydrocarbons Gasoline Range Organics***
***TPH-DRO - Total Petroleum Hydrocarbons Diesel Range Organics***

***ND - Not Detected (Reporting Limit Not Available)***
***ND (100) - Not Detected (Reporting Limit)***
***NS - Not Sampled***
***I - Results between Reporting Limit and Method Detection Limit***
***J - Estimated Value***

***(µg/L) - micrograms per Liter***

# *Table 2*
# *Summary of Groundwater Analytical Results*
# *Former Shell Service Station #137675*

| *Sample Date* | *Benzene (µg/L)* | *Toluene (µg/L)* | *Ethylbenzene (µg/L)* | *Total Xylenes (µg/L)* | *Total BTEX (µg/L)* | *MTBE (µg/L)* | *TBA (µg/L)* | *TPH-GRO (µg/L)* | *TPH-DRO (µg/L)* |
|---|---|---|---|---|---|---|---|---|---|
| **RW-20** | | | | | | | | | |
| 08/09/2011 | 5.3 | ND(5.0) | ND(5.0) | ND(5.0) | 5.3 | 1840 | 212 | 1820 | ND(100) |
| 10/31/2011 | 4.7 J | ND(5.0) | ND(5.0) | ND(5.0) | 4.7 | 1660 | 189 | 1930 | ND(100) |
| 02/01/2012 | 3.0 | ND(2.0) | ND(2.0) | ND(2.0) | 3.0 | 1200 | 112 | NS | NS |
| 05/03/2012 | 3.8 J | ND(5.0) | ND(5.0) | ND(5.0) | 3.8 | 1440 | 133 | 1780 | ND(100) |
| **RW-21** | | | | | | | | | |
| 12/06/2010 | ND(4.99) | ND(4.03) | ND(4.2) | ND(13.53) | ND(26.75) | 1420 | ND(123) | 1030 | 40.0 I |
| 02/17/2011 | 12.0 | ND(1.0) | ND(1.0) | ND(1.0) | 12.0 | 867 | 109 | 926 | ND(110) |
| 05/20/2011 | 4.7 | ND(1.0) | ND(1.0) | 0.29 J | 4.99 | 559 | 69.7 | 420 | ND(100) |
| 08/09/2011 | 3.9 | ND(1.0) | ND(1.0) | ND(1.0) | 3.9 | 674 | 66.0 | 840 | ND(100) |
| 10/31/2011 | 2.6 | ND(1.0) | ND(1.0) | ND(1.0) | 2.6 | 550 | 43.6 | 624 | ND(100) |
| 02/01/2012 | 2.1 | ND(1.0) | ND(1.0) | ND(1.0) | 2.1 | 392 | ND(25) | NS | NS |
| 05/03/2012 | 1.6 | ND(1.0) | ND(1.0) | ND(1.0) | 1.6 | 386 | 24.9 J | 489 | ND(100) |
| **RW-22** | | | | | | | | | |
| 09/27/2010 | 25.7 | ND(0.201) | ND(0.21) | 10.5 | 36.2 | 12900 | 10700 | 9790 | 140 I |
| 12/06/2010 | 19.5 | ND(0.201) | ND(0.21) | 3.2 | 22.7 | 9810 | 3930 | 9710 | 136 I |
| 02/17/2011 | 4.9 J | ND(10) | ND(10) | ND(10) | 4.9 | 5630 | 1630 | 5890 | ND(110) |
| 05/20/2011 | 4.3 J | ND(5.0) | ND(5.0) | 1.1 J | 5.4 | 5920 | 1700 | 3270 | 129 |
| 08/09/2011 | 5.3 J | ND(10) | ND(10) | ND(10) | 5.3 | 5090 | 1610 | 4640 | ND(100) |
| 10/31/2011 | 9.6 J | ND(10) | ND(10) | 2.1 J | 11.7 | 2990 | 1040 | 2860 | ND(100) |
| 02/01/2012 | 3.9 J | ND(10) | ND(10) | ND(10) | 3.9 | 5320 | 1110 | NS | NS |
| 05/03/2012 | 2.9 J | ND(10) | ND(10) | ND(10) | 2.9 | 3620 | 1240 | 4730 | ND(100) |
| **RW-23** | | | | | | | | | |
| 12/06/2010 | 12.7 I | ND(4.03) | ND(4.2) | ND(13.53) | 12.7 | 1520 | 1710 | 1540 | 384 I |
| 02/17/2011 | 22.9 | ND(5.0) | ND(5.0) | 5.2 | 28.1 | 2010 | 684 | 2130 | 328 |
| 05/20/2011 | 15.2 | ND(10) | ND(10) | 3.4 J | 18.6 | 2300 | 676 | 1760 | 149 |
| 08/09/2011 | 17.4 | ND(5.0) | ND(5.0) | 1.0 J | 18.4 | 1460 | 567 | 1700 | 146 |
| 10/31/2011 | 14.7 | ND(5.0) | ND(5.0) | 4.0 J | 18.7 | 2220 | 734 | 2550 | ND(100) |
| 02/01/2012 | 13.7 | ND(5.0) | ND(5.0) | 3.4 J | 17.1 | 2390 | 362 | NS | NS |
| 05/03/2012 | 8.4 | ND(5.0) | ND(5.0) | 2.6 J | 11.0 | 2130 | 697 | 2650 | ND(100) |
| **RW-27** | | | | | | | | | |
| 05/02/2012 | 0.91 J | ND(1.0) | ND(1.0) | ND(1.0) | 0.91 | 989 | 60.0 | 1210 | ND(100) |
| **TF-01** | | | | | | | | | |
| 01/06/2004 | 30.2 | 60.3 | 0.34 | 27.9 | 118.74 | 20800 | 1710 | 30500 | 369 |
| 04/05/2004 | ND | ND | ND | ND | ND | 45200 | ND | ND | ND |
| 10/05/2004 | ND | ND | ND | ND | ND | 54800 | 14200 | 67100 | ND |

*BTEX - Benzene, Toluene, Ethylbenzene, Xylenes*
*MTBE - Methyl tert-Butyl Ether*
*TBA - Tertiary Butyl Alcohol*
*TPH-GRO - Total Petroleum Hydrocarbons Gasoline Range Organics*
*TPH-DRO - Total Petroleum Hydrocarbons Diesel Range Organics*

*ND - Not Detected (Reporting Limit Not Available)*
*ND (100) - Not Detected (Reporting Limit)*
*NS - Not Sampled*
*I - Results between Reporting Limit and Method Detection Limit*
*J - Estimated Value*

*(µg/L) - micrograms per Liter*

# *Table 2*
# *Summary of Groundwater Analytical Results*
# *Former Shell Service Station #137675*

| *Sample Date* | *Benzene (µg/L)* | *Toluene (µg/L)* | *Ethylbenzene (µg/L)* | *Total Xylenes (µg/L)* | *Total BTEX (µg/L)* | *MTBE (µg/L)* | *TBA (µg/L)* | *TPH-GRO (µg/L)* | *TPH-DRO (µg/L)* |
|---|---|---|---|---|---|---|---|---|---|
| **TF-01** | | | | | | | | | |
| 01/03/2005 | ND | 45.1 | ND | ND | 45.1 | 54900 | 17800 | 43500 | 319 |
| 04/13/2005 | 265 | 370 | 5.7 | 227 | 867.7 | 33600 | 5670 | 49000 | 264 |
| 08/17/2005 | 56.5 | 24.8 | ND | 282 | 363.3 | 93500 | 1980 | 139000 | 233 |
| 11/17/2005 | 1.1 | ND | ND | 3.1 | 4.2 | 1580 | 796 | 2730 | 577 |
| 03/30/2006 | ND | ND | ND | ND | ND | 287 | 26.4 | 229 | NS |
| 06/29/2006 | ND | ND | ND | ND | ND | ND | ND | ND | 295 |
| 01/18/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 1.36 | ND(20) | ND(100) | 292 |
| 03/11/2010 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 0.33 | ND(15) | 115 | 37.0 |
| 05/17/2010 | 0.46 I | ND(0.247) | ND(0.196) | ND(0.696) | 0.46 | 0.56 I | ND(15) | ND(25) | 39.0 I |
| 05/04/2012 | 81.9 | 43.1 | 0.27 J | 11.8 | 137.07 | 5.5 | ND(25) | 218 | 328 |
| **TF-02** | | | | | | | | | |
| 04/05/2004 | ND | ND | ND | ND | ND | 62900 | ND | ND | ND |
| 10/05/2004 | ND | ND | ND | ND | ND | 148000 | 29400 | 194000 | 401 |
| 01/03/2005 | 37.8 | 87.4 | ND | 40.9 | 166.1 | 87800 | 9460 | 67600 | 2010 |
| 04/13/2005 | 481 | 671 | ND | 372 | 1524 | 85900 | 4420 | 144000 | 536 |
| 08/17/2005 | 127 | ND | ND | 251 | 378 | 129000 | 3590 | 226000 | 296 |
| 11/17/2005 | ND | ND | ND | ND | ND | 5130 | 5510 | 5360 | 1910 |
| 03/30/2006 | ND | ND | ND | ND | ND | 226 | 114 | 234 | NS |
| 06/29/2006 | ND | ND | ND | ND | ND | 59.7 | 107 | ND | 861 |
| 01/18/2007 | ND(1.0) | ND(1.0) | ND(1.0) | ND(3.0) | ND(6.0) | 49.8 | 56.6 | ND(100) | 1310 |
| 12/07/2009 | ND(0.211) | ND(0.247) | ND(0.196) | ND(0.696) | ND(1.35) | 1.76 I | 120 | 42.0 I | 1260 |
| 03/11/2010 | 22.1 | 23.0 | 2.24 | 27.4 | 74.74 | 6.64 | ND(15) | 180 | 76.0 |
| 05/17/2010 | 0.28 I | ND(0.247) | ND(0.196) | 0.33 | 0.61 | 0.90 I | ND(15) | ND(25) | 48.0 I |
| 05/04/2012 | 4.8 | 3.3 | ND(1.0) | 5.5 | 13.6 | 9.4 | 198 | ND(200) | 499 |

*BTEX - Benzene, Toluene, Ethylbenzene, Xylenes*
*MTBE - Methyl tert-Butyl Ether*
*TBA - Tertiary Butyl Alcohol*
*TPH-GRO - Total Petroleum Hydrocarbons Gasoline Range Organics*
*TPH-DRO - Total Petroleum Hydrocarbons Diesel Range Organics*

*ND - Not Detected (Reporting Limit Not Available)*
*ND (100) - Not Detected (Reporting Limit)*
*NS - Not Sampled*
*I - Results between Reporting Limit and Method Detection Limit*
*J - Estimated Value*

*(µg/L) - micrograms per Liter*

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|
| **600 BRYANTS NURSERY** | | | | | |
| | **1,1,1,2-Tetrachloroethane** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,1,1-Trichloroethane** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,1,2,2-Tetrachloroethane** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,1,2-Trichloroethane** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,1-Dichloroethane** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,1-Dichloroethene** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,1-Dichloropropene** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,2,3-Trichlorobenzene** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,2,3-Trichloropropane** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,2,4-Trichlorobenzene** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,2,4-Trimethylbenzene** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,2-Dibromo-3-chloropropane** | | | | |
| | 05/01/2012 | ND | U | 1 | ug/L |
| | **1,2-Dibromoethane (EDB)** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,2-Dichlorobenzene** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,2-Dichloroethane** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,2-Dichloropropane** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,3,5-Trimethylbenzene** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|---|
| **600 BRYANTS NURSERY** | | | | | | |
| | **1,3-Dichlorobenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,3-Dichloropropane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,4-Dichlorobenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **2,2-Dichloropropane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **2-Butanone** | | | | | |
| | | 05/01/2012 | ND | U | 5 | ug/L |
| | **2-Hexanone** | | | | | |
| | | 05/01/2012 | ND | U | 2 | ug/L |
| | **4-Chlorotoluene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **4-Methyl-2-pentanone** | | | | | |
| | | 05/01/2012 | ND | U | 2 | ug/L |
| | **Acetone** | | | | | |
| | | 05/01/2012 | ND | U | 5 | ug/L |
| | **Benzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Bromobenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Bromochloromethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Bromodichloromethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Bromoform** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Bromomethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Carbon disulfide** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Carbon Tetrachloride** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|---|
| **600 BRYANTS NURSERY** | | | | | | |
| | **Chlorobenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Chlorodibromomethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Chloroethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Chloroform** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Chloromethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **cis-1,2-Dichloroethene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **cis-1,3-Dichloropropene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Dibromomethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Dichlorodifluoromethane** | | | | | |
| | | 05/01/2012 | ND | U | 1 | ug/L |
| | **Diesel** | | | | | |
| | | 05/01/2012 | ND | U | 0.1 | mg/L |
| | **Diisopropyl Ether** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Ethyl tert-Butyl Ether** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Ethylbenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **GRO as Gasoline** | | | | | |
| | | 05/01/2012 | ND | U | 0.2 | mg/L |
| | **Hexachlorobutadiene** | | | | | |
| | | 05/01/2012 | ND | U | 2 | ug/L |
| | **Hexane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Isopropylbenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|---|
| **600 BRYANTS NURSERY** | | | | | | |
| | **m,p-Xylene** | | | | | |
| | | 05/01/2012 | ND | U | 1 | ug/L |
| | **Methyl tert-Butyl Ether** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Methylene Chloride** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Naphthalene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **n-Butylbenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **n-Propylbenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **o-Chlorotoluene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **o-Xylene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **p-Isopropyltoluene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **sec-Butylbenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Styrene** | | | | | |
| | | 05/01/2012 | 0.079 | J | 0.5 | ug/L |
| | **Tert-Amyl Methyl Ether** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **tert-Butylbenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Tertiary Butyl Alcohol** | | | | | |
| | | 05/01/2012 | ND | U | 5 | ug/L |
| | **Tetrachloroethene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Toluene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Total BTEX** | | | | | |
| | | 05/01/2012 | ND | U | 2 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|
| **600 BRYANTS NURSERY** | | | | | |
| | **trans-1,2-Dichloroethene** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **trans-1,3-Dichloropropene** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Trichloroethene** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Trichlorofluoromethane** | | | | |
| | 05/01/2012 | ND | U | 1 | ug/L |
| | **Vinyl Chloride** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Xylenes, total** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|
| **601 BRYANTS NURSERY** | | | | | |
| | **1,1,1,2-Tetrachloroethane** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,1,1-Trichloroethane** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,1,2,2-Tetrachloroethane** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,1,2-Trichloroethane** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,1-Dichloroethane** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,1-Dichloroethene** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,1-Dichloropropene** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,2,3-Trichlorobenzene** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,2,3-Trichloropropane** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,2,4-Trichlorobenzene** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,2,4-Trimethylbenzene** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,2-Dibromo-3-chloropropane** | | | | |
| | 05/02/2012 | ND | U | 1 | ug/L |
| | **1,2-Dibromoethane (EDB)** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,2-Dichlorobenzene** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,2-Dichloroethane** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,2-Dichloropropane** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,3,5-Trimethylbenzene** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|---|
| **601 BRYANTS NURSERY** | | | | | | |
| | **1,3-Dichlorobenzene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,3-Dichloropropane** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,4-Dichlorobenzene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **2,2-Dichloropropane** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **2-Butanone** | | | | | |
| | | 05/02/2012 | ND | U | 5 | ug/L |
| | **2-Hexanone** | | | | | |
| | | 05/02/2012 | ND | U | 2 | ug/L |
| | **4-Chlorotoluene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **4-Methyl-2-pentanone** | | | | | |
| | | 05/02/2012 | ND | U | 2 | ug/L |
| | **Acetone** | | | | | |
| | | 05/02/2012 | ND | U | 5 | ug/L |
| | **Benzene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Bromobenzene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Bromochloromethane** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Bromodichloromethane** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Bromoform** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Bromomethane** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Carbon disulfide** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Carbon Tetrachloride** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|---|
| **601 BRYANTS NURSERY** | | | | | | |
| | **Chlorobenzene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Chlorodibromomethane** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Chloroethane** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Chloroform** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Chloromethane** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **cis-1,2-Dichloroethene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **cis-1,3-Dichloropropene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Dibromomethane** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Dichlorodifluoromethane** | | | | | |
| | | 05/02/2012 | ND | U | 1 | ug/L |
| | **Diesel** | | | | | |
| | | 05/02/2012 | ND | U | 0.1 | mg/L |
| | **Diisopropyl Ether** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Ethyl tert-Butyl Ether** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Ethylbenzene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **GRO as Gasoline** | | | | | |
| | | 05/02/2012 | ND | U | 0.2 | mg/L |
| | **Hexachlorobutadiene** | | | | | |
| | | 05/02/2012 | ND | U | 2 | ug/L |
| | **Hexane** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Isopropylbenzene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|---|
| **601 BRYANTS NURSERY** | | | | | | |
| | **m,p-Xylene** | | | | | |
| | | 05/02/2012 | ND | U | 1 | ug/L |
| | **Methyl tert-Butyl Ether** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Methylene Chloride** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Naphthalene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **n-Butylbenzene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **n-Propylbenzene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **o-Chlorotoluene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **o-Xylene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **p-Isopropyltoluene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **sec-Butylbenzene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Styrene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Tert-Amyl Methyl Ether** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **tert-Butylbenzene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Tertiary Butyl Alcohol** | | | | | |
| | | 05/02/2012 | ND | U | 5 | ug/L |
| | **Tetrachloroethene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Toluene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Total BTEX** | | | | | |
| | | 05/02/2012 | ND | U | 2 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|
| **601 BRYANTS NURSERY** | | | | | |
| | **trans-1,2-Dichloroethene** | | | | |
| 05/02/2012 | | ND | U | 0.5 | ug/L |
| | **trans-1,3-Dichloropropene** | | | | |
| 05/02/2012 | | ND | U | 0.5 | ug/L |
| | **Trichloroethene** | | | | |
| 05/02/2012 | | ND | U | 0.5 | ug/L |
| | **Trichlorofluoromethane** | | | | |
| 05/02/2012 | | ND | U | 1 | ug/L |
| | **Vinyl Chloride** | | | | |
| 05/02/2012 | | ND | U | 0.5 | ug/L |
| | **Xylenes, total** | | | | |
| 05/02/2012 | | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|
| **610 BRYANTS NURSERY** | | | | | |
| | **1,1,1,2-Tetrachloroethane** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,1,1-Trichloroethane** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,1,2,2-Tetrachloroethane** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,1,2-Trichloroethane** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,1-Dichloroethane** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,1-Dichloroethene** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,1-Dichloropropene** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,2,3-Trichlorobenzene** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,2,3-Trichloropropane** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,2,4-Trichlorobenzene** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,2,4-Trimethylbenzene** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,2-Dibromo-3-chloropropane** | | | | |
| | 05/01/2012 | ND | U | 1 | ug/L |
| | **1,2-Dibromoethane (EDB)** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,2-Dichlorobenzene** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,2-Dichloroethane** | | | | |
| | 05/01/2012 | 0.21 | J | 0.5 | ug/L |
| | **1,2-Dichloropropane** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,3,5-Trimethylbenzene** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|---|
| **610 BRYANTS NURSERY** | | | | | | |
| | **1,3-Dichlorobenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,3-Dichloropropane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,4-Dichlorobenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **2,2-Dichloropropane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **2-Butanone** | | | | | |
| | | 05/01/2012 | ND | U | 5 | ug/L |
| | **2-Hexanone** | | | | | |
| | | 05/01/2012 | ND | U | 2 | ug/L |
| | **4-Chlorotoluene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **4-Methyl-2-pentanone** | | | | | |
| | | 05/01/2012 | ND | U | 2 | ug/L |
| | **Acetone** | | | | | |
| | | 05/01/2012 | ND | U | 5 | ug/L |
| | **Benzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Bromobenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Bromochloromethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Bromodichloromethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Bromoform** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Bromomethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Carbon disulfide** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Carbon Tetrachloride** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|---|
| **610 BRYANTS NURSERY** | | | | | | |
| | **Chlorobenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Chlorodibromomethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Chloroethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Chloroform** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Chloromethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **cis-1,2-Dichloroethene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **cis-1,3-Dichloropropene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Dibromomethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Dichlorodifluoromethane** | | | | | |
| | | 05/01/2012 | ND | U | 1 | ug/L |
| | **Diesel** | | | | | |
| | | 05/01/2012 | ND | U | 0.11 | mg/L |
| | **Diisopropyl Ether** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Ethyl tert-Butyl Ether** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Ethylbenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **GRO as Gasoline** | | | | | |
| | | 05/01/2012 | ND | U | 0.2 | mg/L |
| | **Hexachlorobutadiene** | | | | | |
| | | 05/01/2012 | ND | U | 2 | ug/L |
| | **Hexane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Isopropylbenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|---|
| **610 BRYANTS NURSERY** | | | | | | |
| | **m,p-Xylene** | | | | | |
| | | 05/01/2012 | ND | U | 1 | ug/L |
| | **Methyl tert-Butyl Ether** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Methylene Chloride** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Naphthalene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **n-Butylbenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **n-Propylbenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **o-Chlorotoluene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **o-Xylene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **p-Isopropyltoluene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **sec-Butylbenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Styrene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Tert-Amyl Methyl Ether** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **tert-Butylbenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Tertiary Butyl Alcohol** | | | | | |
| | | 05/01/2012 | ND | U | 5 | ug/L |
| | **Tetrachloroethene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Toluene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Total BTEX** | | | | | |
| | | 05/01/2012 | ND | U | 2 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|
| **610 BRYANTS NURSERY** | | | | | |
| | **trans-1,2-Dichloroethene** | | | | |
| 05/01/2012 | | ND | U | 0.5 | ug/L |
| | **trans-1,3-Dichloropropene** | | | | |
| 05/01/2012 | | ND | U | 0.5 | ug/L |
| | **Trichloroethene** | | | | |
| 05/01/2012 | | ND | U | 0.5 | ug/L |
| | **Trichlorofluoromethane** | | | | |
| 05/01/2012 | | ND | U | 1 | ug/L |
| | **Vinyl Chloride** | | | | |
| 05/01/2012 | | ND | U | 0.5 | ug/L |
| | **Xylenes, total** | | | | |
| 05/01/2012 | | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|
| **611 BRYANTS NURSERY** | | | | | |
| | **1,1,1,2-Tetrachloroethane** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,1,1-Trichloroethane** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,1,2,2-Tetrachloroethane** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,1,2-Trichloroethane** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,1-Dichloroethane** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,1-Dichloroethene** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,1-Dichloropropene** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,2,3-Trichlorobenzene** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,2,3-Trichloropropane** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,2,4-Trichlorobenzene** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,2,4-Trimethylbenzene** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,2-Dibromo-3-chloropropane** | | | | |
| | 05/01/2012 | ND | U | 1 | ug/L |
| | **1,2-Dibromoethane (EDB)** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,2-Dichlorobenzene** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,2-Dichloroethane** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,2-Dichloropropane** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,3,5-Trimethylbenzene** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|---|
| **611 BRYANTS NURSERY** | | | | | | |
| | **1,3-Dichlorobenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,3-Dichloropropane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,4-Dichlorobenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **2,2-Dichloropropane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **2-Butanone** | | | | | |
| | | 05/01/2012 | ND | U | 5 | ug/L |
| | **2-Hexanone** | | | | | |
| | | 05/01/2012 | ND | U | 2 | ug/L |
| | **4-Chlorotoluene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **4-Methyl-2-pentanone** | | | | | |
| | | 05/01/2012 | ND | U | 2 | ug/L |
| | **Acetone** | | | | | |
| | | 05/01/2012 | ND | U | 5 | ug/L |
| | **Benzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Bromobenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Bromochloromethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Bromodichloromethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Bromoform** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Bromomethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Carbon disulfide** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Carbon Tetrachloride** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|---|
| **611 BRYANTS NURSERY** | | | | | | |
| | **Chlorobenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Chlorodibromomethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Chloroethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Chloroform** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Chloromethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **cis-1,2-Dichloroethene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **cis-1,3-Dichloropropene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Dibromomethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Dichlorodifluoromethane** | | | | | |
| | | 05/01/2012 | ND | U | 1 | ug/L |
| | **Diesel** | | | | | |
| | | 05/01/2012 | ND | U | 0.1 | mg/L |
| | **Diisopropyl Ether** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Ethyl tert-Butyl Ether** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Ethylbenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **GRO as Gasoline** | | | | | |
| | | 05/01/2012 | ND | U | 0.2 | mg/L |
| | **Hexachlorobutadiene** | | | | | |
| | | 05/01/2012 | ND | U | 2 | ug/L |
| | **Hexane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Isopropylbenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|---|
| **611 BRYANTS NURSERY** | | | | | | |
| | **m,p-Xylene** | | | | | |
| | | 05/01/2012 | ND | U | 1 | ug/L |
| | **Methyl tert-Butyl Ether** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Methylene Chloride** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Naphthalene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **n-Butylbenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **n-Propylbenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **o-Chlorotoluene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **o-Xylene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **p-Isopropyltoluene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **sec-Butylbenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Styrene** | | | | | |
| | | 05/01/2012 | 0.12 | J | 0.5 | ug/L |
| | **Tert-Amyl Methyl Ether** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **tert-Butylbenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Tertiary Butyl Alcohol** | | | | | |
| | | 05/01/2012 | ND | U | 5 | ug/L |
| | **Tetrachloroethene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Toluene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Total BTEX** | | | | | |
| | | 05/01/2012 | ND | U | 2 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|
| **611 BRYANTS NURSERY** | | | | | |
| | **trans-1,2-Dichloroethene** | | | | |
| 05/01/2012 | | ND | U | 0.5 | ug/L |
| | **trans-1,3-Dichloropropene** | | | | |
| 05/01/2012 | | ND | U | 0.5 | ug/L |
| | **Trichloroethene** | | | | |
| 05/01/2012 | | ND | U | 0.5 | ug/L |
| | **Trichlorofluoromethane** | | | | |
| 05/01/2012 | | ND | U | 1 | ug/L |
| | **Vinyl Chloride** | | | | |
| 05/01/2012 | | ND | U | 0.5 | ug/L |
| | **Xylenes, total** | | | | |
| 05/01/2012 | | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|
| **621 BRYANTS NURSERY** | | | | | |
| | **1,1,1,2-Tetrachloroethane** | | | | |
| | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **1,1,1-Trichloroethane** | | | | |
| | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **1,1,2,2-Tetrachloroethane** | | | | |
| | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **1,1,2-Trichloroethane** | | | | |
| | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **1,1-Dichloroethane** | | | | |
| | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **1,1-Dichloroethene** | | | | |
| | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **1,1-Dichloropropene** | | | | |
| | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **1,2,3-Trichlorobenzene** | | | | |
| | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **1,2,3-Trichloropropane** | | | | |
| | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **1,2,4-Trichlorobenzene** | | | | |
| | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **1,2,4-Trimethylbenzene** | | | | |
| | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **1,2-Dibromo-3-chloropropane** | | | | |
| | 04/30/2012 | ND | U | 1 | ug/L |
| | **1,2-Dibromoethane (EDB)** | | | | |
| | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **1,2-Dichlorobenzene** | | | | |
| | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **1,2-Dichloroethane** | | | | |
| | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **1,2-Dichloropropane** | | | | |
| | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **1,3,5-Trimethylbenzene** | | | | |
| | 04/30/2012 | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|---|
| **621 BRYANTS NURSERY** | | | | | | |
| | **1,3-Dichlorobenzene** | | | | | |
| | | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **1,3-Dichloropropane** | | | | | |
| | | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **1,4-Dichlorobenzene** | | | | | |
| | | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **2,2-Dichloropropane** | | | | | |
| | | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **2-Butanone** | | | | | |
| | | 04/30/2012 | ND | U | 5 | ug/L |
| | **2-Hexanone** | | | | | |
| | | 04/30/2012 | ND | U | 2 | ug/L |
| | **4-Chlorotoluene** | | | | | |
| | | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **4-Methyl-2-pentanone** | | | | | |
| | | 04/30/2012 | ND | U | 2 | ug/L |
| | **Acetone** | | | | | |
| | | 04/30/2012 | ND | U | 5 | ug/L |
| | **Benzene** | | | | | |
| | | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **Bromobenzene** | | | | | |
| | | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **Bromochloromethane** | | | | | |
| | | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **Bromodichloromethane** | | | | | |
| | | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **Bromoform** | | | | | |
| | | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **Bromomethane** | | | | | |
| | | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **Carbon disulfide** | | | | | |
| | | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **Carbon Tetrachloride** | | | | | |
| | | 04/30/2012 | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|---|
| **621 BRYANTS NURSERY** | | | | | | |
| | **Chlorobenzene** | | | | | |
| | | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **Chlorodibromomethane** | | | | | |
| | | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **Chloroethane** | | | | | |
| | | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **Chloroform** | | | | | |
| | | 04/30/2012 | 0.52 | | 0.5 | ug/L |
| | **Chloromethane** | | | | | |
| | | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **cis-1,2-Dichloroethene** | | | | | |
| | | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **cis-1,3-Dichloropropene** | | | | | |
| | | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **Dibromomethane** | | | | | |
| | | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **Dichlorodifluoromethane** | | | | | |
| | | 04/30/2012 | ND | U | 1 | ug/L |
| | **Diesel** | | | | | |
| | | 04/30/2012 | ND | U | 0.11 | mg/L |
| | **Diisopropyl Ether** | | | | | |
| | | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **Ethyl tert-Butyl Ether** | | | | | |
| | | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **Ethylbenzene** | | | | | |
| | | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **GRO as Gasoline** | | | | | |
| | | 04/30/2012 | ND | U | 0.2 | mg/L |
| | **Hexachlorobutadiene** | | | | | |
| | | 04/30/2012 | ND | U | 2 | ug/L |
| | **Hexane** | | | | | |
| | | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **Isopropylbenzene** | | | | | |
| | | 04/30/2012 | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|---|
| **621 BRYANTS NURSERY** | | | | | | |
| | **m,p-Xylene** | | | | | |
| | | 04/30/2012 | ND | U | 1 | ug/L |
| | **Methyl tert-Butyl Ether** | | | | | |
| | | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **Methylene Chloride** | | | | | |
| | | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **Naphthalene** | | | | | |
| | | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **n-Butylbenzene** | | | | | |
| | | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **n-Propylbenzene** | | | | | |
| | | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **o-Chlorotoluene** | | | | | |
| | | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **o-Xylene** | | | | | |
| | | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **p-Isopropyltoluene** | | | | | |
| | | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **sec-Butylbenzene** | | | | | |
| | | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **Styrene** | | | | | |
| | | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **Tert-Amyl Methyl Ether** | | | | | |
| | | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **tert-Butylbenzene** | | | | | |
| | | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **Tertiary Butyl Alcohol** | | | | | |
| | | 04/30/2012 | ND | U | 5 | ug/L |
| | **Tetrachloroethene** | | | | | |
| | | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **Toluene** | | | | | |
| | | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **Total BTEX** | | | | | |
| | | 04/30/2012 | ND | U | 2 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# *Table 3*
# *Potable Well Samples Analytical Results*
# *Former Shell Service Station #137675*

| *Sample Name and Date* | *Analyte Name* | *Result* | *Lab Flag* | *Reporting Limit* | *Units* |
|---|---|---|---|---|---|
| **621 BRYANTS NURSERY** | | | | | |
| | **trans-1,2-Dichloroethene** | | | | |
| | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **trans-1,3-Dichloropropene** | | | | |
| | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **Trichloroethene** | | | | |
| | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **Trichlorofluoromethane** | | | | |
| | 04/30/2012 | ND | U | 1 | ug/L |
| | **Vinyl Chloride** | | | | |
| | 04/30/2012 | ND | U | 0.5 | ug/L |
| | **Xylenes, total** | | | | |
| | 04/30/2012 | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|
| **640 BRYANTS NURSERY** | | | | | |
| | **1,1,1,2-Tetrachloroethane** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,1,1-Trichloroethane** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,1,2,2-Tetrachloroethane** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,1,2-Trichloroethane** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,1-Dichloroethane** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,1-Dichloroethene** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,1-Dichloropropene** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,2,3-Trichlorobenzene** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,2,3-Trichloropropane** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,2,4-Trichlorobenzene** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,2,4-Trimethylbenzene** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,2-Dibromo-3-chloropropane** | | | | |
| | 05/02/2012 | ND | U | 1 | ug/L |
| | **1,2-Dibromoethane (EDB)** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,2-Dichlorobenzene** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,2-Dichloroethane** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,2-Dichloropropane** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,3,5-Trimethylbenzene** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|---|
| **640 BRYANTS NURSERY** | | | | | | |
| | **1,3-Dichlorobenzene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,3-Dichloropropane** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,4-Dichlorobenzene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **2,2-Dichloropropane** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **2-Butanone** | | | | | |
| | | 05/02/2012 | ND | U | 5 | ug/L |
| | **2-Hexanone** | | | | | |
| | | 05/02/2012 | ND | U | 2 | ug/L |
| | **4-Chlorotoluene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **4-Methyl-2-pentanone** | | | | | |
| | | 05/02/2012 | ND | U | 2 | ug/L |
| | **Acetone** | | | | | |
| | | 05/02/2012 | ND | U | 5 | ug/L |
| | **Benzene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Bromobenzene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Bromochloromethane** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Bromodichloromethane** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Bromoform** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Bromomethane** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Carbon disulfide** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Carbon Tetrachloride** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|---|
| **640 BRYANTS NURSERY** | | | | | | |
| | **Chlorobenzene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Chlorodibromomethane** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Chloroethane** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Chloroform** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Chloromethane** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **cis-1,2-Dichloroethene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **cis-1,3-Dichloropropene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Dibromomethane** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Dichlorodifluoromethane** | | | | | |
| | | 05/02/2012 | ND | U | 1 | ug/L |
| | **Diesel** | | | | | |
| | | 05/02/2012 | ND | U | 0.11 | mg/L |
| | **Diisopropyl Ether** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Ethyl tert-Butyl Ether** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Ethylbenzene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **GRO as Gasoline** | | | | | |
| | | 05/02/2012 | ND | U | 0.2 | mg/L |
| | **Hexachlorobutadiene** | | | | | |
| | | 05/02/2012 | ND | U | 2 | ug/L |
| | **Hexane** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Isopropylbenzene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|---|
| **640 BRYANTS NURSERY** | | | | | | |
| | **m,p-Xylene** | | | | | |
| | | 05/02/2012 | ND | U | 1 | ug/L |
| | **Methyl tert-Butyl Ether** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Methylene Chloride** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Naphthalene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **n-Butylbenzene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **n-Propylbenzene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **o-Chlorotoluene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **o-Xylene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **p-Isopropyltoluene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **sec-Butylbenzene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Styrene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Tert-Amyl Methyl Ether** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **tert-Butylbenzene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Tertiary Butyl Alcohol** | | | | | |
| | | 05/02/2012 | ND | U | 5 | ug/L |
| | **Tetrachloroethene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Toluene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Total BTEX** | | | | | |
| | | 05/02/2012 | ND | | 2 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|
| **640 BRYANTS NURSERY** | | | | | |
| | **trans-1,2-Dichloroethene** | | | | |
| 05/02/2012 | | ND | U | 0.5 | ug/L |
| | **trans-1,3-Dichloropropene** | | | | |
| 05/02/2012 | | ND | U | 0.5 | ug/L |
| | **Trichloroethene** | | | | |
| 05/02/2012 | | ND | U | 0.5 | ug/L |
| | **Trichlorofluoromethane** | | | | |
| 05/02/2012 | | ND | U | 1 | ug/L |
| | **Vinyl Chloride** | | | | |
| 05/02/2012 | | ND | U | 0.5 | ug/L |
| | **Xylenes, total** | | | | |
| 05/02/2012 | | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|
| **650 BRYANTS NURSERY** | | | | | |
| | **1,1,1,2-Tetrachloroethane** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,1,1-Trichloroethane** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,1,2,2-Tetrachloroethane** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,1,2-Trichloroethane** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,1-Dichloroethane** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,1-Dichloroethene** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,1-Dichloropropene** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,2,3-Trichlorobenzene** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,2,3-Trichloropropane** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,2,4-Trichlorobenzene** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,2,4-Trimethylbenzene** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,2-Dibromo-3-chloropropane** | | | | |
| | 05/02/2012 | ND | U | 1 | ug/L |
| | **1,2-Dibromoethane (EDB)** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,2-Dichlorobenzene** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,2-Dichloroethane** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,2-Dichloropropane** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,3,5-Trimethylbenzene** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|---|
| **650 BRYANTS NURSERY** | | | | | | |
| | **1,3-Dichlorobenzene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,3-Dichloropropane** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,4-Dichlorobenzene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **2,2-Dichloropropane** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **2-Butanone** | | | | | |
| | | 05/02/2012 | ND | U | 5 | ug/L |
| | **2-Hexanone** | | | | | |
| | | 05/02/2012 | ND | U | 2 | ug/L |
| | **4-Chlorotoluene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **4-Methyl-2-pentanone** | | | | | |
| | | 05/02/2012 | ND | U | 2 | ug/L |
| | **Acetone** | | | | | |
| | | 05/02/2012 | ND | U | 5 | ug/L |
| | **Benzene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Bromobenzene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Bromochloromethane** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Bromodichloromethane** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Bromoform** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Bromomethane** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Carbon disulfide** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Carbon Tetrachloride** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|---|
| **650 BRYANTS NURSERY** | | | | | | |
| | **Chlorobenzene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Chlorodibromomethane** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Chloroethane** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Chloroform** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Chloromethane** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **cis-1,2-Dichloroethene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **cis-1,3-Dichloropropene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Dibromomethane** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Dichlorodifluoromethane** | | | | | |
| | | 05/02/2012 | ND | U | 1 | ug/L |
| | **Diesel** | | | | | |
| | | 05/02/2012 | ND | U | 0.1 | mg/L |
| | **Diisopropyl Ether** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Ethyl tert-Butyl Ether** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Ethylbenzene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **GRO as Gasoline** | | | | | |
| | | 05/02/2012 | ND | U | 0.2 | mg/L |
| | **Hexachlorobutadiene** | | | | | |
| | | 05/02/2012 | ND | U | 2 | ug/L |
| | **Hexane** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Isopropylbenzene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|---|
| **650 BRYANTS NURSERY** | | | | | | |
| | **m,p-Xylene** | | | | | |
| | | 05/02/2012 | ND | U | 1 | ug/L |
| | **Methyl tert-Butyl Ether** | | | | | |
| | | 05/02/2012 | 0.6 | | 0.5 | ug/L |
| | **Methylene Chloride** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Naphthalene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **n-Butylbenzene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **n-Propylbenzene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **o-Chlorotoluene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **o-Xylene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **p-Isopropyltoluene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **sec-Butylbenzene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Styrene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Tert-Amyl Methyl Ether** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **tert-Butylbenzene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Tertiary Butyl Alcohol** | | | | | |
| | | 05/02/2012 | ND | U | 5 | ug/L |
| | **Tetrachloroethene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Toluene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Total BTEX** | | | | | |
| | | 05/02/2012 | ND | | 2 | ug/L |

*Notes:*
*ND; U - Not Detected*
*UG/L - Micrograms per liter*
*I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.*
*V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.*

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|
| **650 BRYANTS NURSERY** | | | | | |
| | **trans-1,2-Dichloroethene** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **trans-1,3-Dichloropropene** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Trichloroethene** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Trichlorofluoromethane** | | | | |
| | 05/02/2012 | ND | U | 1 | ug/L |
| | **Vinyl Chloride** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Xylenes, total** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|
| **651 BRYANTS NURSERY** | | | | | |
| | **1,1,1,2-Tetrachloroethane** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,1,1-Trichloroethane** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,1,2,2-Tetrachloroethane** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,1,2-Trichloroethane** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,1-Dichloroethane** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,1-Dichloroethene** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,1-Dichloropropene** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,2,3-Trichlorobenzene** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,2,3-Trichloropropane** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,2,4-Trichlorobenzene** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,2,4-Trimethylbenzene** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,2-Dibromo-3-chloropropane** | | | | |
| | 05/01/2012 | ND | U | 1 | ug/L |
| | **1,2-Dibromoethane (EDB)** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,2-Dichlorobenzene** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,2-Dichloroethane** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,2-Dichloropropane** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,3,5-Trimethylbenzene** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|---|
| **651 BRYANTS NURSERY** | | | | | | |
| | **1,3-Dichlorobenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,3-Dichloropropane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,4-Dichlorobenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **2,2-Dichloropropane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **2-Butanone** | | | | | |
| | | 05/01/2012 | ND | U | 5 | ug/L |
| | **2-Hexanone** | | | | | |
| | | 05/01/2012 | ND | U | 2 | ug/L |
| | **4-Chlorotoluene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **4-Methyl-2-pentanone** | | | | | |
| | | 05/01/2012 | ND | U | 2 | ug/L |
| | **Acetone** | | | | | |
| | | 05/01/2012 | ND | U | 5 | ug/L |
| | **Benzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Bromobenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Bromochloromethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Bromodichloromethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Bromoform** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Bromomethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Carbon disulfide** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Carbon Tetrachloride** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|---|
| **651 BRYANTS NURSERY** | | | | | | |
| | **Chlorobenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Chlorodibromomethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Chloroethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Chloroform** | | | | | |
| | | 05/01/2012 | 0.23 | J | 0.5 | ug/L |
| | **Chloromethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **cis-1,2-Dichloroethene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **cis-1,3-Dichloropropene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Dibromomethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Dichlorodifluoromethane** | | | | | |
| | | 05/01/2012 | ND | U | 1 | ug/L |
| | **Diesel** | | | | | |
| | | 05/01/2012 | ND | U | 0.11 | mg/L |
| | **Diisopropyl Ether** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Ethyl tert-Butyl Ether** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Ethylbenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **GRO as Gasoline** | | | | | |
| | | 05/01/2012 | ND | U | 0.2 | mg/L |
| | **Hexachlorobutadiene** | | | | | |
| | | 05/01/2012 | ND | U | 2 | ug/L |
| | **Hexane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Isopropylbenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|---|
| **651 BRYANTS NURSERY** | | | | | | |
| | **m,p-Xylene** | | | | | |
| | | 05/01/2012 | ND | U | 1 | ug/L |
| | **Methyl tert-Butyl Ether** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Methylene Chloride** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Naphthalene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **n-Butylbenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **n-Propylbenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **o-Chlorotoluene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **o-Xylene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **p-Isopropyltoluene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **sec-Butylbenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Styrene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Tert-Amyl Methyl Ether** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **tert-Butylbenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Tertiary Butyl Alcohol** | | | | | |
| | | 05/01/2012 | ND | U | 5 | ug/L |
| | **Tetrachloroethene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Toluene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Total BTEX** | | | | | |
| | | 05/01/2012 | ND | U | 2 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|
| **651 BRYANTS NURSERY** | | | | | |
| | **trans-1,2-Dichloroethene** | | | | |
| 05/01/2012 | | ND | U | 0.5 | ug/L |
| | **trans-1,3-Dichloropropene** | | | | |
| 05/01/2012 | | ND | U | 0.5 | ug/L |
| | **Trichloroethene** | | | | |
| 05/01/2012 | | ND | U | 0.5 | ug/L |
| | **Trichlorofluoromethane** | | | | |
| 05/01/2012 | | ND | U | 1 | ug/L |
| | **Vinyl Chloride** | | | | |
| 05/01/2012 | | ND | U | 0.5 | ug/L |
| | **Xylenes, total** | | | | |
| 05/01/2012 | | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|
| **660 BRYANTS NURSERY** | | | | | |
| | **1,1,1,2-Tetrachloroethane** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,1,1-Trichloroethane** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,1,2,2-Tetrachloroethane** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,1,2-Trichloroethane** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,1-Dichloroethane** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,1-Dichloroethene** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,1-Dichloropropene** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,2,3-Trichlorobenzene** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,2,3-Trichloropropane** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,2,4-Trichlorobenzene** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,2,4-Trimethylbenzene** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,2-Dibromo-3-chloropropane** | | | | |
| | 05/01/2012 | ND | U | 1 | ug/L |
| | **1,2-Dibromoethane (EDB)** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,2-Dichlorobenzene** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,2-Dichloroethane** | | | | |
| | 05/01/2012 | 0.18 | J | 0.5 | ug/L |
| | **1,2-Dichloropropane** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,3,5-Trimethylbenzene** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|---|
| **660 BRYANTS NURSERY** | | | | | | |
| | **1,3-Dichlorobenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,3-Dichloropropane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,4-Dichlorobenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **2,2-Dichloropropane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **2-Butanone** | | | | | |
| | | 05/01/2012 | ND | U | 5 | ug/L |
| | **2-Hexanone** | | | | | |
| | | 05/01/2012 | ND | U | 2 | ug/L |
| | **4-Chlorotoluene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **4-Methyl-2-pentanone** | | | | | |
| | | 05/01/2012 | ND | U | 2 | ug/L |
| | **Acetone** | | | | | |
| | | 05/01/2012 | ND | U | 5 | ug/L |
| | **Benzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Bromobenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Bromochloromethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Bromodichloromethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Bromoform** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Bromomethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Carbon disulfide** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Carbon Tetrachloride** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|---|
| **660 BRYANTS NURSERY** | | | | | | |
| | **Chlorobenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Chlorodibromomethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Chloroethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Chloroform** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Chloromethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **cis-1,2-Dichloroethene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **cis-1,3-Dichloropropene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Dibromomethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Dichlorodifluoromethane** | | | | | |
| | | 05/01/2012 | ND | U | 1 | ug/L |
| | **Diesel** | | | | | |
| | | 05/01/2012 | ND | U | 0.1 | mg/L |
| | **Diisopropyl Ether** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Ethyl tert-Butyl Ether** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Ethylbenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **GRO as Gasoline** | | | | | |
| | | 05/01/2012 | ND | U | 0.2 | mg/L |
| | **Hexachlorobutadiene** | | | | | |
| | | 05/01/2012 | ND | U | 2 | ug/L |
| | **Hexane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Isopropylbenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|---|
| **660 BRYANTS NURSERY** | | | | | | |
| | **m,p-Xylene** | | | | | |
| | | 05/01/2012 | ND | U | 1 | ug/L |
| | **Methyl tert-Butyl Ether** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Methylene Chloride** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Naphthalene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **n-Butylbenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **n-Propylbenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **o-Chlorotoluene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **o-Xylene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **p-Isopropyltoluene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **sec-Butylbenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Styrene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Tert-Amyl Methyl Ether** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **tert-Butylbenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Tertiary Butyl Alcohol** | | | | | |
| | | 05/01/2012 | ND | U | 5 | ug/L |
| | **Tetrachloroethene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Toluene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Total BTEX** | | | | | |
| | | 05/01/2012 | ND | U | 2 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|
| **660 BRYANTS NURSERY** | | | | | |
| | **trans-1,2-Dichloroethene** | | | | |
| 05/01/2012 | | ND | U | 0.5 | ug/L |
| | **trans-1,3-Dichloropropene** | | | | |
| 05/01/2012 | | ND | U | 0.5 | ug/L |
| | **Trichloroethene** | | | | |
| 05/01/2012 | | ND | U | 0.5 | ug/L |
| | **Trichlorofluoromethane** | | | | |
| 05/01/2012 | | ND | U | 1 | ug/L |
| | **Vinyl Chloride** | | | | |
| 05/01/2012 | | ND | U | 0.5 | ug/L |
| | **Xylenes, total** | | | | |
| 05/01/2012 | | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|
| **661 BRYANTS NURSERY** | | | | | |
| | **1,1,1,2-Tetrachloroethane** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,1,1-Trichloroethane** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,1,2,2-Tetrachloroethane** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,1,2-Trichloroethane** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,1-Dichloroethane** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,1-Dichloroethene** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,1-Dichloropropene** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,2,3-Trichlorobenzene** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,2,3-Trichloropropane** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,2,4-Trichlorobenzene** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,2,4-Trimethylbenzene** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,2-Dibromo-3-chloropropane** | | | | |
| | 05/01/2012 | ND | U | 1 | ug/L |
| | **1,2-Dibromoethane (EDB)** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,2-Dichlorobenzene** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,2-Dichloroethane** | | | | |
| | 05/01/2012 | 0.14 | J | 0.5 | ug/L |
| | **1,2-Dichloropropane** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,3,5-Trimethylbenzene** | | | | |
| | 05/01/2012 | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|---|
| **661 BRYANTS NURSERY** | | | | | | |
| | **1,3-Dichlorobenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,3-Dichloropropane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,4-Dichlorobenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **2,2-Dichloropropane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **2-Butanone** | | | | | |
| | | 05/01/2012 | ND | U | 5 | ug/L |
| | **2-Hexanone** | | | | | |
| | | 05/01/2012 | ND | U | 2 | ug/L |
| | **4-Chlorotoluene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **4-Methyl-2-pentanone** | | | | | |
| | | 05/01/2012 | ND | U | 2 | ug/L |
| | **Acetone** | | | | | |
| | | 05/01/2012 | ND | U | 5 | ug/L |
| | **Benzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Bromobenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Bromochloromethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Bromodichloromethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Bromoform** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Bromomethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Carbon disulfide** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Carbon Tetrachloride** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|---|
| **661 BRYANTS NURSERY** | | | | | | |
| | **Chlorobenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Chlorodibromomethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Chloroethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Chloroform** | | | | | |
| | | 05/01/2012 | 0.22 | J | 0.5 | ug/L |
| | **Chloromethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **cis-1,2-Dichloroethene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **cis-1,3-Dichloropropene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Dibromomethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Dichlorodifluoromethane** | | | | | |
| | | 05/01/2012 | ND | U | 1 | ug/L |
| | **Diesel** | | | | | |
| | | 05/01/2012 | ND | U | 0.1 | mg/L |
| | **Diisopropyl Ether** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Ethyl tert-Butyl Ether** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Ethylbenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **GRO as Gasoline** | | | | | |
| | | 05/01/2012 | ND | U | 0.2 | mg/L |
| | **Hexachlorobutadiene** | | | | | |
| | | 05/01/2012 | ND | U | 2 | ug/L |
| | **Hexane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Isopropylbenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|---|
| **661 BRYANTS NURSERY** | | | | | | |
| | **m,p-Xylene** | | | | | |
| | | 05/01/2012 | ND | U | 1 | ug/L |
| | **Methyl tert-Butyl Ether** | | | | | |
| | | 05/01/2012 | 0.19 | J | 0.5 | ug/L |
| | **Methylene Chloride** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Naphthalene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **n-Butylbenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **n-Propylbenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **o-Chlorotoluene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **o-Xylene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **p-Isopropyltoluene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **sec-Butylbenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Styrene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Tert-Amyl Methyl Ether** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **tert-Butylbenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Tertiary Butyl Alcohol** | | | | | |
| | | 05/01/2012 | ND | U | 5 | ug/L |
| | **Tetrachloroethene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Toluene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Total BTEX** | | | | | |
| | | 05/01/2012 | ND | U | 2 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|
| **661 BRYANTS NURSERY** | | | | | |
| | **trans-1,2-Dichloroethene** | | | | |
| 05/01/2012 | | ND | U | 0.5 | ug/L |
| | **trans-1,3-Dichloropropene** | | | | |
| 05/01/2012 | | ND | U | 0.5 | ug/L |
| | **Trichloroethene** | | | | |
| 05/01/2012 | | ND | U | 0.5 | ug/L |
| | **Trichlorofluoromethane** | | | | |
| 05/01/2012 | | ND | U | 1 | ug/L |
| | **Vinyl Chloride** | | | | |
| 05/01/2012 | | ND | U | 0.5 | ug/L |
| | **Xylenes, total** | | | | |
| 05/01/2012 | | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|
| **670 BRYANTS NURSERY** | | | | | |
| | **1,1,1,2-Tetrachloroethane** | | | | |
| 05/01/2012 | | ND | U | 0.5 | ug/L |
| | **1,1,1-Trichloroethane** | | | | |
| 05/01/2012 | | ND | U | 0.5 | ug/L |
| | **1,1,2,2-Tetrachloroethane** | | | | |
| 05/01/2012 | | ND | U | 0.5 | ug/L |
| | **1,1,2-Trichloroethane** | | | | |
| 05/01/2012 | | ND | U | 0.5 | ug/L |
| | **1,1-Dichloroethane** | | | | |
| 05/01/2012 | | ND | U | 0.5 | ug/L |
| | **1,1-Dichloroethene** | | | | |
| 05/01/2012 | | ND | U | 0.5 | ug/L |
| | **1,1-Dichloropropene** | | | | |
| 05/01/2012 | | ND | U | 0.5 | ug/L |
| | **1,2,3-Trichlorobenzene** | | | | |
| 05/01/2012 | | ND | U | 0.5 | ug/L |
| | **1,2,3-Trichloropropane** | | | | |
| 05/01/2012 | | ND | U | 0.5 | ug/L |
| | **1,2,4-Trichlorobenzene** | | | | |
| 05/01/2012 | | ND | U | 0.5 | ug/L |
| | **1,2,4-Trimethylbenzene** | | | | |
| 05/01/2012 | | ND | U | 0.5 | ug/L |
| | **1,2-Dibromo-3-chloropropane** | | | | |
| 05/01/2012 | | ND | U | 1 | ug/L |
| | **1,2-Dibromoethane (EDB)** | | | | |
| 05/01/2012 | | ND | U | 0.5 | ug/L |
| | **1,2-Dichlorobenzene** | | | | |
| 05/01/2012 | | ND | U | 0.5 | ug/L |
| | **1,2-Dichloroethane** | | | | |
| 05/01/2012 | | 0.14 | J | 0.5 | ug/L |
| | **1,2-Dichloropropane** | | | | |
| 05/01/2012 | | ND | U | 0.5 | ug/L |
| | **1,3,5-Trimethylbenzene** | | | | |
| 05/01/2012 | | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|---|
| **670 BRYANTS NURSERY** | | | | | | |
| | **1,3-Dichlorobenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,3-Dichloropropane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **1,4-Dichlorobenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **2,2-Dichloropropane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **2-Butanone** | | | | | |
| | | 05/01/2012 | ND | U | 5 | ug/L |
| | **2-Hexanone** | | | | | |
| | | 05/01/2012 | ND | U | 2 | ug/L |
| | **4-Chlorotoluene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **4-Methyl-2-pentanone** | | | | | |
| | | 05/01/2012 | ND | U | 2 | ug/L |
| | **Acetone** | | | | | |
| | | 05/01/2012 | ND | U | 5 | ug/L |
| | **Benzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Bromobenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Bromochloromethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Bromodichloromethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Bromoform** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Bromomethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Carbon disulfide** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Carbon Tetrachloride** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|---|
| **670 BRYANTS NURSERY** | | | | | | |
| | **Chlorobenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Chlorodibromomethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Chloroethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Chloroform** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Chloromethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **cis-1,2-Dichloroethene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **cis-1,3-Dichloropropene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Dibromomethane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Dichlorodifluoromethane** | | | | | |
| | | 05/01/2012 | ND | U | 1 | ug/L |
| | **Diesel** | | | | | |
| | | 05/01/2012 | ND | U | 0.1 | mg/L |
| | **Diisopropyl Ether** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Ethyl tert-Butyl Ether** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Ethylbenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **GRO as Gasoline** | | | | | |
| | | 05/01/2012 | ND | U | 0.2 | mg/L |
| | **Hexachlorobutadiene** | | | | | |
| | | 05/01/2012 | ND | U | 2 | ug/L |
| | **Hexane** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Isopropylbenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|---|
| **670 BRYANTS NURSERY** | | | | | | |
| | **m,p-Xylene** | | | | | |
| | | 05/01/2012 | ND | U | 1 | ug/L |
| | **Methyl tert-Butyl Ether** | | | | | |
| | | 05/01/2012 | 0.31 | J | 0.5 | ug/L |
| | **Methylene Chloride** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Naphthalene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **n-Butylbenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **n-Propylbenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **o-Chlorotoluene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **o-Xylene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **p-Isopropyltoluene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **sec-Butylbenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Styrene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Tert-Amyl Methyl Ether** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **tert-Butylbenzene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Tertiary Butyl Alcohol** | | | | | |
| | | 05/01/2012 | ND | U | 5 | ug/L |
| | **Tetrachloroethene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Toluene** | | | | | |
| | | 05/01/2012 | ND | U | 0.5 | ug/L |
| | **Total BTEX** | | | | | |
| | | 05/01/2012 | ND | U | 2 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|
| **670 BRYANTS NURSERY** | | | | | |
| | **trans-1,2-Dichloroethene** | | | | |
| 05/01/2012 | | ND | U | 0.5 | ug/L |
| | **trans-1,3-Dichloropropene** | | | | |
| 05/01/2012 | | ND | U | 0.5 | ug/L |
| | **Trichloroethene** | | | | |
| 05/01/2012 | | ND | U | 0.5 | ug/L |
| | **Trichlorofluoromethane** | | | | |
| 05/01/2012 | | ND | U | 1 | ug/L |
| | **Vinyl Chloride** | | | | |
| 05/01/2012 | | ND | U | 0.5 | ug/L |
| | **Xylenes, total** | | | | |
| 05/01/2012 | | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|
| **700 BRYANTS NURSERY** | | | | | |
| | **1,1,1,2-Tetrachloroethane** | | | | |
| 05/03/2012 | | ND | U | 0.5 | ug/L |
| | **1,1,1-Trichloroethane** | | | | |
| 05/03/2012 | | ND | U | 0.5 | ug/L |
| | **1,1,2,2-Tetrachloroethane** | | | | |
| 05/03/2012 | | ND | U | 0.5 | ug/L |
| | **1,1,2-Trichloroethane** | | | | |
| 05/03/2012 | | ND | U | 0.5 | ug/L |
| | **1,1-Dichloroethane** | | | | |
| 05/03/2012 | | ND | U | 0.5 | ug/L |
| | **1,1-Dichloroethene** | | | | |
| 05/03/2012 | | ND | U | 0.5 | ug/L |
| | **1,1-Dichloropropene** | | | | |
| 05/03/2012 | | ND | U | 0.5 | ug/L |
| | **1,2,3-Trichlorobenzene** | | | | |
| 05/03/2012 | | ND | U | 0.5 | ug/L |
| | **1,2,3-Trichloropropane** | | | | |
| 05/03/2012 | | ND | U | 0.5 | ug/L |
| | **1,2,4-Trichlorobenzene** | | | | |
| 05/03/2012 | | ND | U | 0.5 | ug/L |
| | **1,2,4-Trimethylbenzene** | | | | |
| 05/03/2012 | | ND | U | 0.5 | ug/L |
| | **1,2-Dibromo-3-chloropropane** | | | | |
| 05/03/2012 | | ND | U | 1 | ug/L |
| | **1,2-Dibromoethane (EDB)** | | | | |
| 05/03/2012 | | ND | U | 0.5 | ug/L |
| | **1,2-Dichlorobenzene** | | | | |
| 05/03/2012 | | ND | U | 0.5 | ug/L |
| | **1,2-Dichloroethane** | | | | |
| 05/03/2012 | | 0.25 | J | 0.5 | ug/L |
| | **1,2-Dichloropropane** | | | | |
| 05/03/2012 | | ND | U | 0.5 | ug/L |
| | **1,3,5-Trimethylbenzene** | | | | |
| 05/03/2012 | | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|---|
| **700 BRYANTS NURSERY** | | | | | | |
| | **1,3-Dichlorobenzene** | | | | | |
| | | 05/03/2012 | ND | U | 0.5 | ug/L |
| | **1,3-Dichloropropane** | | | | | |
| | | 05/03/2012 | ND | U | 0.5 | ug/L |
| | **1,4-Dichlorobenzene** | | | | | |
| | | 05/03/2012 | ND | U | 0.5 | ug/L |
| | **2,2-Dichloropropane** | | | | | |
| | | 05/03/2012 | ND | U | 0.5 | ug/L |
| | **2-Butanone** | | | | | |
| | | 05/03/2012 | ND | U | 5 | ug/L |
| | **2-Hexanone** | | | | | |
| | | 05/03/2012 | ND | U | 2 | ug/L |
| | **4-Chlorotoluene** | | | | | |
| | | 05/03/2012 | ND | U | 0.5 | ug/L |
| | **4-Methyl-2-pentanone** | | | | | |
| | | 05/03/2012 | ND | U | 2 | ug/L |
| | **Acetone** | | | | | |
| | | 05/03/2012 | ND | U | 5 | ug/L |
| | **Benzene** | | | | | |
| | | 05/03/2012 | ND | U | 0.5 | ug/L |
| | **Bromobenzene** | | | | | |
| | | 05/03/2012 | ND | U | 0.5 | ug/L |
| | **Bromochloromethane** | | | | | |
| | | 05/03/2012 | ND | U | 0.5 | ug/L |
| | **Bromodichloromethane** | | | | | |
| | | 05/03/2012 | ND | U | 0.5 | ug/L |
| | **Bromoform** | | | | | |
| | | 05/03/2012 | ND | U | 0.5 | ug/L |
| | **Bromomethane** | | | | | |
| | | 05/03/2012 | ND | U | 0.5 | ug/L |
| | **Carbon disulfide** | | | | | |
| | | 05/03/2012 | ND | U | 0.5 | ug/L |
| | **Carbon Tetrachloride** | | | | | |
| | | 05/03/2012 | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|---|
| **700 BRYANTS NURSERY** | | | | | | |
| | **Chlorobenzene** | | | | | |
| | | 05/03/2012 | ND | U | 0.5 | ug/L |
| | **Chlorodibromomethane** | | | | | |
| | | 05/03/2012 | ND | U | 0.5 | ug/L |
| | **Chloroethane** | | | | | |
| | | 05/03/2012 | ND | U | 0.5 | ug/L |
| | **Chloroform** | | | | | |
| | | 05/03/2012 | 0.17 | J | 0.5 | ug/L |
| | **Chloromethane** | | | | | |
| | | 05/03/2012 | ND | U | 0.5 | ug/L |
| | **cis-1,2-Dichloroethene** | | | | | |
| | | 05/03/2012 | ND | U | 0.5 | ug/L |
| | **cis-1,3-Dichloropropene** | | | | | |
| | | 05/03/2012 | ND | U | 0.5 | ug/L |
| | **Dibromomethane** | | | | | |
| | | 05/03/2012 | ND | U | 0.5 | ug/L |
| | **Dichlorodifluoromethane** | | | | | |
| | | 05/03/2012 | ND | U | 1 | ug/L |
| | **Diesel** | | | | | |
| | | 05/03/2012 | ND | U | 0.11 | mg/L |
| | **Diisopropyl Ether** | | | | | |
| | | 05/03/2012 | 0.12 | J | 0.5 | ug/L |
| | **Ethyl tert-Butyl Ether** | | | | | |
| | | 05/03/2012 | ND | U | 0.5 | ug/L |
| | **Ethylbenzene** | | | | | |
| | | 05/03/2012 | ND | U | 0.5 | ug/L |
| | **GRO as Gasoline** | | | | | |
| | | 05/03/2012 | ND | U | 0.2 | mg/L |
| | **Hexachlorobutadiene** | | | | | |
| | | 05/03/2012 | ND | U | 2 | ug/L |
| | **Hexane** | | | | | |
| | | 05/03/2012 | ND | U | 0.5 | ug/L |
| | **Isopropylbenzene** | | | | | |
| | | 05/03/2012 | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|---|
| **700 BRYANTS NURSERY** | | | | | | |
| | **m,p-Xylene** | | | | | |
| | | 05/03/2012 | ND | U | 1 | ug/L |
| | **Methyl tert-Butyl Ether** | | | | | |
| | | 05/03/2012 | 0.93 | | 0.5 | ug/L |
| | **Methylene Chloride** | | | | | |
| | | 05/03/2012 | ND | U | 0.5 | ug/L |
| | **Naphthalene** | | | | | |
| | | 05/03/2012 | ND | U | 0.5 | ug/L |
| | **n-Butylbenzene** | | | | | |
| | | 05/03/2012 | ND | U | 0.5 | ug/L |
| | **n-Propylbenzene** | | | | | |
| | | 05/03/2012 | ND | U | 0.5 | ug/L |
| | **o-Chlorotoluene** | | | | | |
| | | 05/03/2012 | ND | U | 0.5 | ug/L |
| | **o-Xylene** | | | | | |
| | | 05/03/2012 | ND | U | 0.5 | ug/L |
| | **p-Isopropyltoluene** | | | | | |
| | | 05/03/2012 | ND | U | 0.5 | ug/L |
| | **sec-Butylbenzene** | | | | | |
| | | 05/03/2012 | ND | U | 0.5 | ug/L |
| | **Styrene** | | | | | |
| | | 05/03/2012 | ND | U | 0.5 | ug/L |
| | **Tert-Amyl Methyl Ether** | | | | | |
| | | 05/03/2012 | ND | U | 0.5 | ug/L |
| | **tert-Butylbenzene** | | | | | |
| | | 05/03/2012 | ND | U | 0.5 | ug/L |
| | **Tertiary Butyl Alcohol** | | | | | |
| | | 05/03/2012 | ND | U | 5 | ug/L |
| | **Tetrachloroethene** | | | | | |
| | | 05/03/2012 | ND | U | 0.5 | ug/L |
| | **Toluene** | | | | | |
| | | 05/03/2012 | ND | U | 0.5 | ug/L |
| | **Total BTEX** | | | | | |
| | | 05/03/2012 | ND | | 2 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|
| **700 BRYANTS NURSERY** | | | | | |
| | **trans-1,2-Dichloroethene** | | | | |
| | 05/03/2012 | ND | U | 0.5 | ug/L |
| | **trans-1,3-Dichloropropene** | | | | |
| | 05/03/2012 | ND | U | 0.5 | ug/L |
| | **Trichloroethene** | | | | |
| | 05/03/2012 | ND | U | 0.5 | ug/L |
| | **Trichlorofluoromethane** | | | | |
| | 05/03/2012 | ND | U | 1 | ug/L |
| | **Vinyl Chloride** | | | | |
| | 05/03/2012 | ND | U | 0.5 | ug/L |
| | **Xylenes, total** | | | | |
| | 05/03/2012 | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|
| **701 BRYANTS NURSERY** | | | | | |
| | **1,1,1,2-Tetrachloroethane** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,1,1-Trichloroethane** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,1,2,2-Tetrachloroethane** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,1,2-Trichloroethane** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,1-Dichloroethane** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,1-Dichloroethene** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,1-Dichloropropene** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,2,3-Trichlorobenzene** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,2,3-Trichloropropane** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,2,4-Trichlorobenzene** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,2,4-Trimethylbenzene** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,2-Dibromo-3-chloropropane** | | | | |
| | 05/02/2012 | ND | U | 1 | ug/L |
| | **1,2-Dibromoethane (EDB)** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,2-Dichlorobenzene** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,2-Dichloroethane** | | | | |
| | 05/02/2012 | 0.42 | J | 0.5 | ug/L |
| | **1,2-Dichloropropane** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,3,5-Trimethylbenzene** | | | | |
| | 05/02/2012 | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|---|
| **701 BRYANTS NURSERY** | | | | | | |
| | **1,3-Dichlorobenzene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,3-Dichloropropane** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **1,4-Dichlorobenzene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **2,2-Dichloropropane** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **2-Butanone** | | | | | |
| | | 05/02/2012 | ND | U | 5 | ug/L |
| | **2-Hexanone** | | | | | |
| | | 05/02/2012 | ND | U | 2 | ug/L |
| | **4-Chlorotoluene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **4-Methyl-2-pentanone** | | | | | |
| | | 05/02/2012 | ND | U | 2 | ug/L |
| | **Acetone** | | | | | |
| | | 05/02/2012 | ND | U | 5 | ug/L |
| | **Benzene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Bromobenzene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Bromochloromethane** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Bromodichloromethane** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Bromoform** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Bromomethane** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Carbon disulfide** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Carbon Tetrachloride** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|---|
| **701 BRYANTS NURSERY** | | | | | | |
| | **Chlorobenzene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Chlorodibromomethane** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Chloroethane** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Chloroform** | | | | | |
| | | 05/02/2012 | 0.29 | J | 0.5 | ug/L |
| | **Chloromethane** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **cis-1,2-Dichloroethene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **cis-1,3-Dichloropropene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Dibromomethane** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Dichlorodifluoromethane** | | | | | |
| | | 05/02/2012 | ND | U | 1 | ug/L |
| | **Diesel** | | | | | |
| | | 05/02/2012 | ND | U | 0.1 | mg/L |
| | **Diisopropyl Ether** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Ethyl tert-Butyl Ether** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Ethylbenzene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **GRO as Gasoline** | | | | | |
| | | 05/02/2012 | ND | U | 0.2 | mg/L |
| | **Hexachlorobutadiene** | | | | | |
| | | 05/02/2012 | ND | U | 2 | ug/L |
| | **Hexane** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Isopropylbenzene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|---|
| **701 BRYANTS NURSERY** | | | | | | |
| | **m,p-Xylene** | | | | | |
| | | 05/02/2012 | ND | U | 1 | ug/L |
| | **Methyl tert-Butyl Ether** | | | | | |
| | | 05/02/2012 | 0.78 | | 0.5 | ug/L |
| | **Methylene Chloride** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Naphthalene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **n-Butylbenzene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **n-Propylbenzene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **o-Chlorotoluene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **o-Xylene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **p-Isopropyltoluene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **sec-Butylbenzene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Styrene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Tert-Amyl Methyl Ether** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **tert-Butylbenzene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Tertiary Butyl Alcohol** | | | | | |
| | | 05/02/2012 | ND | U | 5 | ug/L |
| | **Tetrachloroethene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Toluene** | | | | | |
| | | 05/02/2012 | ND | U | 0.5 | ug/L |
| | **Total BTEX** | | | | | |
| | | 05/02/2012 | ND | | 2 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# Table 3
# Potable Well Samples Analytical Results
# Former Shell Service Station #137675

| Sample Name and Date | Analyte Name | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|
| **701 BRYANTS NURSERY** | | | | | |
| | **trans-1,2-Dichloroethene** | | | | |
| 05/02/2012 | | ND | U | 0.5 | ug/L |
| | **trans-1,3-Dichloropropene** | | | | |
| 05/02/2012 | | ND | U | 0.5 | ug/L |
| | **Trichloroethene** | | | | |
| 05/02/2012 | | ND | U | 0.5 | ug/L |
| | **Trichlorofluoromethane** | | | | |
| 05/02/2012 | | ND | U | 1 | ug/L |
| | **Vinyl Chloride** | | | | |
| 05/02/2012 | | ND | U | 0.5 | ug/L |
| | **Xylenes, total** | | | | |
| 05/02/2012 | | ND | U | 0.5 | ug/L |

***Notes:***
***ND; U - Not Detected***
***UG/L - Micrograms per liter***
***I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.***
***V - Analyte detected in both the sample and associated method blank. Note: The value in the blank shall not be subtracted from associated samples.***

# *Table 4*
# *Soil Sample Analytical Results*
# *Former Shell Service Station #137675*

| Sample Date | Sample ID | Analyte Name | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|---|
| **3/5/2012** | | | | | | |
| | **137675-RW-27-19-21** | | | | | |
| | | m,p-Xylene | ND | U | 0.0012 | mg/kg |
| | | o-Chlorotoluene | ND | U | 0.0062 | mg/kg |
| | | o-Xylene | ND | U | 0.0012 | mg/kg |
| | | Percent Solids | 83.7 | | | % |
| | | Benzene | ND | U | 0.0012 | mg/kg |
| | | Toluene | ND | U | 0.0012 | mg/kg |
| | | Ethylbenzene | ND | U | 0.0012 | mg/kg |
| | | Xylenes, total | ND | U | 0.0012 | mg/kg |
| | | Total BTEX | ND | | 0.0048 | mg/kg |
| | | Methyl tert-Butyl Ether | ND | U | 0.0012 | mg/kg |
| | | Naphthalene | ND | U | 0.0062 | mg/kg |
| | | GRO as Gasoline | ND | U | 13 | mg/kg |
| | | Diesel | 36.2 | | 11 | mg/kg |
| | | Tertiary Butyl Alcohol | ND | U | 0.031 | mg/kg |
| | | Tert-Amyl Methyl Ether | ND | U | 0.0062 | mg/kg |
| | | Diisopropyl Ether | ND | U | 0.0062 | mg/kg |
| | | Ethyl tert-Butyl Ether | ND | U | 0.0062 | mg/kg |
| | | 1,1,1,2-Tetrachloroethane | ND | U | 0.0062 | mg/kg |
| | | 1,1,1-Trichloroethane | ND | U | 0.0062 | mg/kg |
| | | 1,1,2,2-Tetrachloroethane | ND | U | 0.0062 | mg/kg |
| | | 1,1,2-Trichloroethane | ND | U | 0.0062 | mg/kg |
| | | 1,1-Dichloroethane | ND | U | 0.0062 | mg/kg |
| | | 1,1-Dichloroethene | ND | U | 0.0062 | mg/kg |
| | | 1,1-Dichloropropene | ND | U | 0.0062 | mg/kg |
| | | 1,2,3-Trichlorobenzene | ND | U | 0.0062 | mg/kg |
| | | 1,2,3-Trichloropropane | ND | U | 0.0062 | mg/kg |
| | | 1,2,4-Trichlorobenzene | ND | U | 0.0062 | mg/kg |
| | | 1,2,4-Trimethylbenzene | ND | U | 0.0062 | mg/kg |
| | | 1,2-Dibromo-3-chloropropane | ND | U | 0.012 | mg/kg |
| | | 1,2-Dibromoethane (EDB) | ND | U | 0.0012 | mg/kg |
| | | 1,2-Dichlorobenzene | ND | U | 0.0062 | mg/kg |
| | | 1,2-Dichloroethane | ND | U | 0.0012 | mg/kg |
| | | 1,2-Dichloropropane | ND | U | 0.0062 | mg/kg |

***Notes:***
***ND-Not Detected***
***mg/kg-Milligrams per kilogram***
***ug/kg-Micrograms per kilogram***

***Lab Flags:***
***U-Not Detected at Reporting Limit***
***J-Estimated Value***

## *Table 4*
# *Soil Sample Analytical Results*
## *Former Shell Service Station #137675*

| Sample Date | Sample ID | Analyte Name | Result | Lab Flag | Reporting Limit | Units |
|---|---|---|---|---|---|---|
| **3/5/2012** | | | | | | |
| | **137675-RW-27-19-21** | | | | | |
| | | 1,3,5-Trimethylbenzene | ND | U | 0.0062 | mg/kg |
| | | 1,3-Dichlorobenzene | ND | U | 0.0062 | mg/kg |
| | | 1,3-Dichloropropane | ND | U | 0.0062 | mg/kg |
| | | 1,4-Dichlorobenzene | ND | U | 0.0062 | mg/kg |
| | | 2,2-Dichloropropane | ND | U | 0.0062 | mg/kg |
| | | 2-Butanone | ND | U | 0.012 | mg/kg |
| | | 4-Chlorotoluene | ND | U | 0.0062 | mg/kg |
| | | 4-Methyl-2-pentanone | ND | U | 0.0062 | mg/kg |
| | | Acetone | ND | U | 0.012 | mg/kg |
| | | Bromobenzene | ND | U | 0.0062 | mg/kg |
| | | Bromochloromethane | ND | U | 0.0062 | mg/kg |
| | | Bromodichloromethane | ND | U | 0.0062 | mg/kg |
| | | Bromoform | ND | U | 0.0062 | mg/kg |
| | | Bromomethane | ND | U | 0.0062 | mg/kg |
| | | Carbon Tetrachloride | ND | U | 0.0062 | mg/kg |
| | | Chlorobenzene | ND | U | 0.0062 | mg/kg |
| | | Chlorodibromomethane | ND | U | 0.0062 | mg/kg |
| | | Chloroethane | ND | U | 0.0062 | mg/kg |
| | | Chloroform | ND | U | 0.0062 | mg/kg |
| | | Chloromethane | ND | U | 0.0062 | mg/kg |
| | | cis-1,2-Dichloroethene | ND | U | 0.0062 | mg/kg |
| | | cis-1,3-Dichloropropene | ND | U | 0.0062 | mg/kg |
| | | Dibromomethane | ND | U | 0.0062 | mg/kg |
| | | Dichlorodifluoromethane | ND | U | 0.0062 | mg/kg |
| | | Hexachlorobutadiene | ND | U | 0.0062 | mg/kg |
| | | Isopropylbenzene | ND | U | 0.0062 | mg/kg |
| | | Methylene Chloride | ND | U | 0.0062 | mg/kg |
| | | n-Butylbenzene | ND | U | 0.0062 | mg/kg |
| | | n-Propylbenzene | ND | U | 0.0062 | mg/kg |
| | | p-Isopropyltoluene | ND | U | 0.0062 | mg/kg |
| | | sec-Butylbenzene | ND | U | 0.0062 | mg/kg |
| | | Styrene | ND | U | 0.0062 | mg/kg |
| | | tert-Butylbenzene | ND | U | 0.0062 | mg/kg |

***Notes:***
***ND-Not Detected***
***mg/kg-Milligrams per kilogram***
***ug/kg-Micrograms per kilogram***

***Lab Flags:***
***U-Not Detected at Reporting Limit***
***J-Estimated Value***

## *Table 4*
# *Soil Sample Analytical Results*
## *Former Shell Service Station #137675*

| *Sample Date* | *Sample ID* | *Analyte Name* | *Result* | *Lab Flag* | *Reporting Limit* | *Units* |
|---|---|---|---|---|---|---|
| **3/5/2012** | | | | | | |
| | **137675-RW-27-19-21** | | | | | |
| | | Tetrachloroethene | ND | U | 0.0062 | mg/kg |
| | | trans-1,2-Dichloroethene | ND | U | 0.0062 | mg/kg |
| | | trans-1,3-Dichloropropene | ND | U | 0.0062 | mg/kg |
| | | Trichloroethene | ND | U | 0.0062 | mg/kg |
| | | Trichlorofluoromethane | ND | U | 0.0062 | mg/kg |
| | | Vinyl Chloride | ND | U | 0.0062 | mg/kg |

***Notes:***
***ND-Not Detected***
***mg/kg-Milligrams per kilogram***
***ug/kg-Micrograms per kilogram***

***Lab Flags:***
***U-Not Detected at Reporting Limit***
***J-Estimated Value***

# *Table 5*
# *Groundwater Extraction System Performance*
# *Shell Service Station #137675 - Offsite*
# *15600 New Hampshire Avenue, Silver Spring, MD*

| *Date* | *Days Operational* | *Totalizer Reading (gal)* | *Cumulative Groundwater Recovered (gal)* | *Volume Recovered per Period (gal)* | *Average Recovery Rate (gpm)* | *Average Influent MTBE Concentration (ug/L)* | *MTBE Recovered per Period (lbs)* | *Cumulative MTBE Recovered (lbs)* | *Operating Wells* |
|---|---|---|---|---|---|---|---|---|---|
| 12/02/2010 - System Start-up | | NC | NC | NC | NC | 2230.0 | 0.00 | 0.00 | 19, 20, 21, 22, 23 |
| 12/10/2010 | 8 | 44700 | 44700 | 44700 | 3.88 | 4400.0 | 1.64 | 1.64 | 19, 20, 21, 22, 23 |
| 12/16/2010 | 6 | 87852 | 87852 | 43152 | 4.99 | 3190.0 | 1.15 | 2.79 | 19, 20, 21, 22, 23 |
| 01/05/2011 | 20 | 238444 | 238444 | 150592 | 5.23 | 3190.0 | 4.00 | 6.79 | 19, 20, 21, 22, 23 |
| 01/11/2011 | 6 | 279900 | 279900 | 41456 | 4.80 | 1650.0 | 0.57 | 7.36 | 19, 20, 21, 22 |
| 01/18/2011 | 7 | 280184 | 280184 | 284 | 0.03 | 1650.0 | 0.00 | 7.36 | 19, 20, 21, 22 |
| 01/25/2011 | 7 | 319348 | 319348 | 39164 | 3.89 | 3050.0 | 1.00 | 8.36 | 20, 21, 22 |
| 02/01/2011 | 7 | 334575 | 334575 | 15227 | 1.51 | 3050.0 | 0.39 | 8.75 | |
| 02/07/2011 | 6 | 379602 | 379602 | 45027 | 5.21 | 2460.0 | 0.92 | 9.67 | 20, 21, 22 |
| 02/23/2011 | 16 | 453158 | 453158 | 73556 | 3.19 | 3300.0 | 2.02 | 11.69 | 19, 20, 21, 22 |
| 03/03/2011 | 8 | 471812 | 471812 | 18654 | 1.62 | 3300.0 | 0.51 | 12.21 | 19, 20, 21, 22 |
| 03/07/2011 | 4 | 510692 | 510692 | 38880 | 6.75 | 2350.0 | 0.76 | 12.97 | 19, 20, 21, 22 |
| 03/15/2011 | 8 | 577165 | 577165 | 66473 | 5.77 | 2350.0 | 1.30 | 14.27 | 19, 20, 21, 22 |
| 03/22/2011 | 7 | 650262 | 650262 | 73097 | 7.25 | 2800.0 | 1.71 | 15.98 | 19, 20, 21, 22, 23 |
| 03/29/2011 | 7 | 724423 | 724423 | 74161 | 7.36 | 2800.0 | 1.73 | 17.71 | 19, 20, 21, 22, 23 |

***Notes:***
***BTEX - Benzene, Toluene, Ethylbenzene, Total Xylenes***
***gal - Gallons***
***gpm - Gallons per minute***
***ug/L - Micrograms per Liter***
***lbs - Pounds***
***Average Flow Rate = Total Flow (gal) / Days of Operation / 1440 (min/day)***
***Hydrocarbons Recovered per Period (lbs) = Total Flow (gal) * 3.775 * BTEX * 2.208*$10^{-9}$***

***NC - Not Collected***

# *Table 5*
# *Groundwater Extraction System Performance*
# *Shell Service Station #137675 - Offsite*
# *15600 New Hampshire Avenue, Silver Spring, MD*

| *Date* | *Days Operational* | *Totalizer Reading (gal)* | *Cumulative Groundwater Recovered (gal)* | *Volume Recovered per Period (gal)* | *Average Recovery Rate (gpm)* | *Average Influent MTBE Concentration (ug/L)* | *MTBE Recovered per Period (lbs)* | *Cumulative MTBE Recovered (lbs)* | *Operating Wells* |
|---|---|---|---|---|---|---|---|---|---|
| 04/05/2011 | 7 | 796421 | 796421 | 71998 | 7.14 | 2180.0 | 1.31 | 19.02 | 20, 21, 22, 23 |
| 04/18/2011 | 13 | 922965 | 922965 | 126544 | 6.76 | 2470.0 | 2.61 | 21.62 | 19, 20, 21, 22, 23 |
| 04/27/2011 - System down while transfer pump replaced | 9 | 979889 | 979889 | 56924 | 4.39 | 2470.0 | 1.17 | 22.79 | |
| 05/06/2011 - System down while transfer pump replaced | 0 | 979889 | 979889 | 0 | 0.00 | 2470.0 | 0.00 | 22.79 | |
| 05/12/2011 - Transfer pump replaced; System Restarted | 6 | 982004 | 982004 | 2115 | 0.24 | 3150.0 | 0.06 | 22.85 | 19, 20, 21, 22, 23 |
| 05/24/2011 | 12 | 1120163 | 1120163 | 138159 | 8.00 | 2270.0 | 2.61 | 25.46 | 19, 20, 21, 23 |
| 05/31/2011 | 7 | 1188444 | 1188444 | 68281 | 6.77 | 2270.0 | 1.29 | 26.75 | 19, 20, 21, 23 |
| 06/15/2011 | 15 | 1334785 | 1334785 | 146341 | 6.78 | 2250.0 | 2.74 | 29.50 | 19, 20, 21, 22 |
| 06/23/2011 | 8 | 1349322 | 1349322 | 14537 | 1.26 | 2250.0 | 0.27 | 29.77 | 19, 20, 21, 22 |
| 06/29/2011 | 6 | 1405455 | 1405455 | 56133 | 6.50 | 2930.0 | 1.37 | 31.14 | 19, 20, 21, 22, 23 |
| 07/07/2011 | 8 | 1442836 | 1442836 | 37381 | 3.24 | 2720.0 | 0.85 | 31.99 | 19, 20, 21, 22, 23 |
| 07/14/2011 | 7 | 1449197 | 1449197 | 6361 | 0.63 | 2720.0 | 0.14 | 32.13 | 19, 20, 21, 22, 23 |
| 07/20/2011 | 6 | 1468492 | 1468492 | 19295 | 2.23 | 2380.0 | 0.38 | 32.52 | 19, 20, 21, 22, 23 |
| 07/27/2011 | 7 | 1512135 | 1512135 | 43643 | 4.33 | 2380.0 | 0.87 | 33.38 | 19, 20, 21, 22, 23 |
| 08/04/2011 | 8 | 1559199 | 1559199 | 47064 | 4.09 | 2790.0 | 1.09 | 34.48 | 19, 20, 21, 22, 23 |

***Notes:***
***BTEX - Benzene, Toluene, Ethylbenzene, Total Xylenes***
***gal - Gallons***
***gpm - Gallons per minute***
***ug/L - Micrograms per Liter***
***lbs - Pounds***
***Average Flow Rate = Total Flow (gal) / Days of Operation / 1440 (min/day)***
***Hydrocarbons Recovered per Period (lbs) = Total Flow (gal) * 3.775 * BTEX * 2.208*10$^{-9}$***

***NC - Not Collected***

# *Table 5*
# *Groundwater Extraction System Performance*
# *Shell Service Station #137675 - Offsite*
# *15600 New Hampshire Avenue, Silver Spring, MD*

| *Date* | *Days Operational* | *Totalizer Reading (gal)* | *Cumulative Groundwater Recovered (gal)* | *Volume Recovered per Period (gal)* | *Average Recovery Rate (gpm)* | *Average Influent MTBE Concentration (ug/L)* | *MTBE Recovered per Period (lbs)* | *Cumulative MTBE Recovered (lbs)* | *Operating Wells* |
|---|---|---|---|---|---|---|---|---|---|
| 08/10/2011 | 6 | 1606175 | 1606175 | 46976 | 5.44 | 2790.0 | 1.09 | 35.57 | 19, 20, 21, 22, 23 |
| 08/15/2011 | 5 | 1640415 | 1640415 | 34240 | 4.76 | 2780.0 | 0.79 | 36.36 | 19, 20, 21, 22, 23 |
| 08/24/2011 | 9 | 1696502 | 1696502 | 56087 | 4.33 | 2780.0 | 1.30 | 37.66 | 19, 20, 21, 22, 23 |
| 09/21/2011 | 28 | 1714648 | 1714648 | 18146 | 0.45 | 2930.0 | 0.44 | 38.10 | 19, 20, 21, 22, 23 |
| 09/28/2011 | 7 | 1771136 | 1771136 | 56488 | 5.60 | 2280.0 | 1.07 | 39.18 | 19, 20, 21, 22, 23 |
| 10/03/2011 | 5 | 1812642 | 1812642 | 41506 | 5.76 | 2280.0 | 0.79 | 39.97 | 19, 20, 21, 22, 23 |
| 10/20/2011 | 17 | 1885889 | 1885889 | 73247 | 2.99 | 2730.0 | 1.67 | 41.63 | 19, 20, 21, 22, 23 |
| 10/27/2011 | 7 | 1949936 | 1949936 | 64047 | 6.35 | 2070.0 | 1.11 | 42.74 | 19, 20, 21, 22, 23 |
| 11/03/2011 | 7 | 2016024 | 2016024 | 66088 | 6.56 | 2070.0 | 1.14 | 43.88 | 19, 20, 21, 22, 23 |
| 11/09/2011 | 6 | 2039505 | 2039505 | 23481 | 2.72 | 1800.0 | 0.35 | 44.23 | 19, 20, 21, 22, 23 |
| 11/16/2011 | 7 | 2082869 | 2082869 | 43364 | 4.30 | 1800.0 | 0.65 | 44.88 | 19, 20, 21, 22, 23 |
| 12/21/2011 - System Down - 11/16 - 12/21 | 35 | 2083117 | 2083117 | 248 | 0.00 | 2040.0 | 0.00 | 44.89 | 19, 20, 21, 22, 23 |
| 12/28/2011 | 7 | 2171369 | 2171369 | 88252 | 8.76 | 2040.0 | 1.50 | 46.39 | 19, 20, 21, 22, 23 |
| 01/03/2012 | 6 | 2232661 | 2232661 | 61292 | 7.09 | 2040.0 | 1.04 | 47.43 | 19, 20, 21, 22, 23 |
| 01/10/2012 | 7 | 2315580 | 2315580 | 82919 | 8.23 | 1230.0 | 0.85 | 48.28 | 19, 20, 21, 22, 23 |

***Notes:***
***BTEX - Benzene, Toluene, Ethylbenzene, Total Xylenes***
***gal - Gallons***
***gpm - Gallons per minute***
***ug/L - Micrograms per Liter***
***lbs - Pounds***
***Average Flow Rate = Total Flow (gal) / Days of Operation / 1440 (min/day)***
***Hydrocarbons Recovered per Period (lbs) = Total Flow (gal) * 3.775 * BTEX * 2.208*$10^{-9}$***

***NC - Not Collected***

# *Table 5*
# *Groundwater Extraction System Performance*
# *Shell Service Station #137675 - Offsite*
# *15600 New Hampshire Avenue, Silver Spring, MD*

| *Date* | *Days Operational* | *Totalizer Reading (gal)* | *Cumulative Groundwater Recovered (gal)* | *Volume Recovered per Period (gal)* | *Average Recovery Rate (gpm)* | *Average Influent MTBE Concentration (ug/L)* | *MTBE Recovered per Period (lbs)* | *Cumulative MTBE Recovered (lbs)* | *Operating Wells* |
|---|---|---|---|---|---|---|---|---|---|
| 01/17/2012 | 7 | 2327492 | 2327492 | 11912 | 1.18 | 1230.0 | 0.12 | 48.40 | 19, 20, 21, 22, 23 |
| 01/26/2012 | 9 | 2360450 | 2360450 | 32958 | 2.54 | 2640.0 | 0.73 | 49.13 | 19, 20, 21, 22, 23 |
| 01/27/2012 | 1 | 2371798 | 2371798 | 11348 | 7.88 | 2640.0 | 0.25 | 49.38 | 19, 20, 21, 22, 23 |
| 01/31/2012 | 4 | 2409771 | 2409771 | 37973 | 6.59 | 2640.0 | 0.84 | 50.21 | 19, 20, 21, 22, 23 |
| 02/06/2012 | 6 | 2481883 | 2481883 | 72112 | 8.35 | 2640.0 | 1.59 | 51.80 | 19, 20, 21, 22, 23 |
| 02/08/2012 | 2 | 2506657 | 2506657 | 24774 | 8.60 | 2120.0 | 0.44 | 52.24 | 19, 20, 21, 22, 23 |
| 02/14/2012 | 6 | 2569030 | 2569030 | 62373 | 7.22 | 2120.0 | 1.10 | 53.34 | 19, 20, 21, 22, 23 |
| 02/24/2012 | 10 | 2680052 | 2680052 | 111022 | 7.71 | 1770.0 | 1.64 | 54.98 | 19, 20, 21, 22, 23 |
| 03/01/2012 | 6 | 2741702 | 2741702 | 61650 | 7.14 | 1770.0 | 0.91 | 55.89 | 19, 20, 21, 22, 23 |
| 03/07/2012 | 6 | 2802690 | 2802690 | 60988 | 7.06 | 1770.0 | 0.90 | 56.79 | 19, 20, 21, 22, 23 |
| 03/20/2012 | 13 | 2885334 | 2885334 | 82644 | 4.41 | 1800.0 | 1.24 | 58.03 | 19, 20, 21, 22, 23 |
| 03/29/2012 | 9 | 2988141 | 2988141 | 102807 | 7.93 | 1800.0 | 1.54 | 59.57 | 19, 20, 21, 22, 23 |
| 04/03/2012 | 5 | 3038529 | 3038529 | 50388 | 7.00 | 1520.0 | 0.64 | 60.21 | 19, 20, 21, 22, 23 |
| 04/10/2012 | 7 | 3099157 | 3099157 | 60628 | 6.01 | 1400.0 | 0.71 | 60.91 | 19, 20, 21, 22, 23 |
| 04/17/2012 | 7 | 3147187 | 3147187 | 48030 | 4.76 | 1400.0 | 0.56 | 61.47 | 19, 20, 21, 22, 23 |

***Notes:***
***BTEX - Benzene, Toluene, Ethylbenzene, Total Xylenes***
***gal - Gallons***
***gpm - Gallons per minute***
***ug/L - Micrograms per Liter***
***lbs - Pounds***
***Average Flow Rate = Total Flow (gal) / Days of Operation / 1440 (min/day)***
***Hydrocarbons Recovered per Period (lbs) = Total Flow (gal) * 3.775 * BTEX * 2.208*$10^{-9}$***

***NC - Not Collected***

# *Table 5*
# *Groundwater Extraction System Performance*
# *Shell Service Station #137675 - Offsite*
# *15600 New Hampshire Avenue, Silver Spring, MD*

| *Date* | *Days Operational* | *Totalizer Reading (gal)* | *Cumulative Groundwater Recovered (gal)* | *Volume Recovered per Period (gal)* | *Average Recovery Rate (gpm)* | *Average Influent MTBE Concentration (ug/L)* | *MTBE Recovered per Period (lbs)* | *Cumulative MTBE Recovered (lbs)* | *Operating Wells* |
|---|---|---|---|---|---|---|---|---|---|
| 04/24/2012 | 7 | 3222349 | 3222349 | 75162 | 7.46 | 1620.0 | 1.01 | 62.49 | 19, 20, 21, 22, 23 |
| 05/10/2012 | 16 | 3398373 | 3398373 | 176024 | 7.64 | 1510.0 | 2.22 | 64.70 | 19, 20, 21, 22, 23 |
| 05/15/2012 | 5 | 3456367 | 3456367 | 57994 | 8.05 | 1510.0 | 0.73 | 65.43 | 19, 20, 21, 22, 23 |
| 05/22/2012 | 7 | 3520503 | 3520503 | 64136 | 6.36 | 1910.0 | 1.02 | 66.46 | 19, 20, 21, 22, 23 |
| 05/31/2012 | 9 | 3608206 | 3608206 | 87703 | 6.77 | 1910.0 | 1.40 | 67.85 | 19, 20, 21, 22, 23 |
| 06/13/2012 | 13 | 3727995 | 3727995 | 119789 | 6.40 | 1950.0 | 1.95 | 69.80 | 19, 20, 21, 22, 23 |
| 06/19/2012 | 6 | 3764225 | 3764225 | 36230 | 4.19 | 1950.0 | 0.59 | 70.39 | 19, 20, 21, 22, 23 |
| 06/27/2012 | 8 | 3811510 | 3811510 | 47285 | 4.10 | 2260.0 | 0.89 | 71.28 | 19, 20, 21, 22, 23 |

***Notes:***
***BTEX - Benzene, Toluene, Ethylbenzene, Total Xylenes***
***gal - Gallons***
***gpm - Gallons per minute***
***ug/L - Micrograms per Liter***
***lbs - Pounds***
***Average Flow Rate = Total Flow (gal) / Days of Operation / 1440 (min/day)***
***Hydrocarbons Recovered per Period (lbs) = Total Flow (gal) * 3.775 * BTEX * $2.208*10^{-9}$***

***NC - Not Collected***

# *Table 6*
# *Offsite Groundwater Extraction Analytical Data*
# *Former Shell Service Station #137675*
# *15600 New Hampshire Avenue, Silver Spring, MD*

| Sample Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | Total BTEX (µg/L) | MTBE (µg/L) | TPH-GRO (µg/L) | TPH-DRO (µg/L) |
|---|---|---|---|---|---|---|---|---|
| **Offsite Influent** | | | | | | | | |
| 12/02/2010 | 7.08 | ND (1) | ND (1) | 2.35 | 9.43 | 2230 | 1480 | NS |
| 12/10/2010 | 7.57 | ND (1) | ND (1) | 3.83 | 11.4 | 4400 | 2970 | NS |
| 12/16/2010 | 6.12 | ND (1) | ND (1) | 3.6 | 9.72 | 3190 | 2950 | NS |
| 01/11/2011 | 7.5 | ND (1) | ND (1) | 2 | 9.5 | 1650 | 1160 | ND (100) |
| 01/25/2011 | 7.5 J | ND (10) | ND (10) | ND (10) | 7.5 | 3050 | 3130 | ND (100) |
| 02/08/2011 | 3 J | ND (10) | ND (10) | ND (10) | 3 | 2460 | 3060 | ND (110) |
| 02/23/2011 | 8.7 | ND (5) | ND (5) | 1.8 J | 10.5 | 3300 | 1820 | ND (100) |
| 03/07/2011 | 4.8 J | ND (5) | ND (5) | ND (5) | 4.8 | 2350 | 2070 | ND (100) |
| 03/22/2011 | 2.1 J | ND (5) | ND (5) | ND (5) | 2.1 | 2800 | 2390 | ND (100) |
| 04/05/2011 | 2.4 J | ND (10) | ND (10) | ND (10) | 2.4 | 2180 | 2630 | ND (100) |
| 04/18/2011 | 4.2 | ND (1) | ND (1) | 1 | 5.2 | 2470 | 1680 | ND (110) |
| 05/12/2011 | 10.5 | ND (10) | ND (10) | ND (10) | 10.5 | 3150 | 3030 | ND (100) |
| 05/24/2011 | ND (5) | ND (5) | ND (5) | ND (5) | ND (20) | 2270 | 1940 | ND (110) |
| 06/09/2011 | ND (5) | ND (5) | ND (5) | ND (5) | ND (20) | 2250 | 2170 | ND (100) |
| 06/22/2011 | 4.8 J | ND (5) | ND (5) | ND (5) | 4.8 | 2930 | 1760 | ND (100) |
| 07/07/2011 | 6.9 J | ND (10) | ND (10) | ND (10) | 6.9 | 2720 | 1750 | ND (100) |
| 07/20/2011 | 2.4 J | ND (5) | ND (5) | ND (5) | 2.4 | 2380 | 2660 | ND (100) |
| 08/04/2011 | 2.3 J | ND (5) | ND (5) | ND (5) | 2.3 | 2790 | 2720 | ND (110) |
| 08/16/2011 | 3.1 J | ND (10) | ND (10) | ND (10) | 3.1 | 2780 | 1640 | ND (100) |
| 09/21/2011 | 10.7 | ND (1) | ND (1) | 0.92 J | 11.62 | 2930 | 3000 | ND (110) |
| 09/28/2011 | 2 J | ND (5) | ND (5) | ND (5) | 2 | 2280 | 2560 | ND (110) |
| 10/20/2011 | 4 J | ND (5) | ND (5) | ND (5) | 4 | 2730 | 2820 | ND (110) |
| 10/27/2011 | ND (5) | ND (5) | ND (5) | ND (5) | ND (20) | 2070 | 2560 | ND (110) |
| 11/09/2011 | 1.9 | ND (1) | ND (1) | 0.42 J | 2.32 | 1800 | 1090 | ND (120) |
| 12/21/2011 | 9.1 | ND (5) | ND (5) | ND (5) | 9.1 | 2040 | 2610 | ND (110) |
| 01/10/2012 | 2.6 | ND (1) | ND (1) | 0.36 J | 2.96 | 1230 | 1430 | ND (110) |
| 01/25/2012 | 7 | ND (2.5) | ND (2.5) | 0.92 J | 7.92 | 2640 | 2610 | ND (110) |
| 02/08/2012 | 3.6 | ND (2) | ND (2) | 0.74 J | 4.34 | 2120 | 2080 | ND (110) |
| 02/24/2012 | 3.5 J | ND (10) | ND (10) | ND (10) | 3.5 | 1770 | 2200 | ND (110) |
| 03/20/2012 | 3.7 | ND (1) | ND (1) | 0.39 J | 4.09 | 1800 | 2140 | ND (110) |
| 03/30/2012 | ND (10) | ND (10) | ND (10) | ND (10) | ND (40) | 1520 | 1620 | ND (110) |
| 04/10/2012 | 1.6 J | ND (5) | ND (5) | ND (5) | 1.6 | 1400 | 1090 | ND (110) |
| 04/24/2012 | 2.3 J | ND (5) | 4.4 J | 3.6 J | 10.3 | 1620 | 1840 | ND (120) |
| 05/10/2012 | 2.3 | ND (1) | ND (1) | 0.41 J | 2.71 | 1510 | 1930 | ND (110) |
| 05/22/2012 | 2.8 | ND (2.5) | ND (2.5) | ND (2.5) | 2.8 | 1910 | 2370 | ND (110) |
| 06/13/2012 | 2.6 | ND (1) | ND (1) | 0.34 J | 2.94 | 1950 | 2210 | ND (110) |
| 06/27/2012 | 6.6 | ND (1) | ND (1) | 0.33 J | 6.93 | 2260 | 2840 | ND (120) |

***Notes:***
***(µg/L) - Micrograms per Liter***

***BTEX - Benzene, Toluene, Ethylbenzene, Xylenes***
***MTBE - Methyl tert-Butyl Ether***
***TPH-DRO - Total Petroleum Hydrocarbons - Diesel Range Organics***
***TPH-GRO - Total Petroleum Hydrocarbons - Gasoline Range Organics***

***ND - Below laboratory detection limit***
***ND(#) - Not Detected (Reporting Limit)***
***NS - Not Sampled***

# *Table 6*
# *Offsite Groundwater Extraction Analytical Data*
# *Former Shell Service Station #137675*
# *15600 New Hampshire Avenue, Silver Spring, MD*

| Sample Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | Total BTEX (µg/L) | MTBE (µg/L) | TPH-GRO (µg/L) | TPH-DRO (µg/L) |
|---|---|---|---|---|---|---|---|---|
| **Mid-1** | | | | | | | | |
| 12/02/2010 | ND (1) | ND (1) | ND (1) | 1.21 | 1.21 | ND (1) | 239 | NS |
| 12/10/2010 | ND (1) | ND (1) | ND (1) | 0.26 | 0.26 | 162 | 115 | NS |
| 12/16/2010 | ND (1) | ND (1) | ND (1) | 1 | 1 | 183 | 157 | NS |
| 01/11/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 77.9 | ND (200) | 227 |
| 01/25/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 136 | 248 | ND (110) |
| 02/08/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 91.5 | ND (200) | ND (110) |
| 02/23/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 109 | ND (200) | ND (110) |
| 03/07/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 64.9 | ND (200) | ND (110) |
| 03/22/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 38.5 | ND (200) | ND (110) |
| 04/05/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 140 | 217 | ND (100) |
| 04/18/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 140 | ND (200) | ND (110) |
| 05/12/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 262 | 364 | ND (100) |
| 05/24/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 125 | 206 | ND (100) |
| 06/09/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 36.7 | ND (200) | ND (100) |
| 06/22/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 73.2 | ND (200) | ND (100) |
| 07/07/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 49.8 | ND (200) | ND (110) |
| 07/20/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 52.9 | ND (200) | ND (100) |
| 08/04/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 34.7 | ND (200) | ND (110) |
| 08/16/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 32.8 | ND (200) | ND (110) |
| 09/21/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 242 | 312 | ND (110) |
| 09/28/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 235 | 275 | ND (110) |
| 10/20/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 273 | 343 | ND (110) |
| 10/27/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 165 | 252 | ND (110) |
| 11/09/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 89.5 | ND (200) | ND (120) |
| 12/21/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 846 | 1100 | ND (110) |
| 01/10/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 50.8 | ND (200) | ND (110) |
| 01/25/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 921 | 784 | ND (110) |
| 02/08/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 501 | 632 | ND (110) |
| 02/24/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 501 | 778 | ND (110) |
| 03/20/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 570 | 703 | ND (110) |
| 03/30/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 494 | 562 | ND (110) |
| 04/10/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 379 | 352 | ND (110) |
| 04/24/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 397 | 574 | ND (110) |
| 05/10/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 403 | 588 | ND (110) |
| 05/22/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 432 | 570 | 114 |
| 06/13/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 585 | 712 | ND (110) |
| 06/27/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 800 | 923 | ND (110) |

***Notes:***
***(µg/L) - Micrograms per Liter***

***BTEX - Benzene, Toluene, Ethylbenzene, Xylenes***
***MTBE - Methyl tert-Butyl Ether***
***TPH-DRO - Total Petroleum Hydrocarbons - Diesel Range Organics***
***TPH-GRO - Total Petroleum Hydrocarbons - Gasoline Range Organics***

***ND - Below laboratory detection limit***
***ND(#) - Not Detected (Reporting Limit)***
***NS - Not Sampled***

# *Table 6*
# *Offsite Groundwater Extraction Analytical Data*
# *Former Shell Service Station #137675*
# *15600 New Hampshire Avenue, Silver Spring, MD*

| Sample Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | Total BTEX (µg/L) | MTBE (µg/L) | TPH-GRO (µg/L) | TPH-DRO (µg/L) |
|---|---|---|---|---|---|---|---|---|
| **Mid-2** | | | | | | | | |
| 12/02/2010 | ND (1) | ND (1) | ND (1) | 0.27 | 0.27 | ND (1) | ND (100) | NS |
| 12/10/2010 | ND (1) | ND (1) | 0.47 | 3.33 | 3.8 | ND (1) | ND (100) | NS |
| 12/16/2010 | ND (1) | ND (1) | 0.26 | 2.2 | 2.46 | ND (1) | 34 | NS |
| 01/11/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (100) |
| 01/25/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (100) |
| 02/08/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (100) |
| 02/23/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (110) |
| 03/07/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 0.31 J | ND (200) | ND (100) |
| 03/22/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 6.1 | ND (200) | ND (110) |
| 04/05/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 25.3 | ND (200) | ND (100) |
| 04/18/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 45 | ND (200) | ND (110) |
| 05/12/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 27.4 | ND (200) | ND (100) |
| 05/24/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 72.6 | ND (200) | ND (110) |
| 06/09/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 99.1 | ND (200) | ND (110) |
| 06/22/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 96.2 | ND (200) | ND (100) |
| 07/07/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 90.1 | ND (200) | ND (100) |
| 07/20/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 96.6 | ND (200) | ND (100) |
| 08/04/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 99.4 | ND (200) | ND (110) |
| 08/16/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 87.4 | ND (200) | ND (100) |
| 09/21/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 64.8 | ND (200) | ND (110) |
| 09/28/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 62.6 | ND (200) | ND (110) |
| 10/20/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 66.5 | ND (200) | ND (110) |
| 10/27/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 58.2 | ND (200) | ND (100) |
| 11/09/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 65.2 | ND (200) | ND (130) |
| 12/21/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 55.5 | ND (200) | ND (110) |
| 01/10/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 285 | 384 | ND (110) |
| 01/25/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 352 | 399 | ND (110) |
| 02/08/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 422 | 521 | ND (110) |
| 02/24/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 501 | 589 | ND (110) |
| 03/20/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (110) |
| 03/30/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (110) |
| 04/10/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (110) |
| 04/24/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (120) |
| 05/10/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 11.3 | ND (200) | ND (110) |
| 05/22/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 84.3 | ND (200) | ND (110) |
| 06/13/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 282 | 336 | ND (110) |
| 06/27/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 271 | 381 | ND (110) |

***Notes:***
***(µg/L) - Micrograms per Liter***

***BTEX - Benzene, Toluene, Ethylbenzene, Xylenes***
***MTBE - Methyl tert-Butyl Ether***
***TPH-DRO - Total Petroleum Hydrocarbons - Diesel Range Organics***
***TPH-GRO - Total Petroleum Hydrocarbons - Gasoline Range Organics***

***ND - Below laboratory detection limit***
***ND(#) - Not Detected (Reporting Limit)***
***NS - Not Sampled***

# *Table 6*
# *Offsite Groundwater Extraction Analytical Data*
# *Former Shell Service Station #137675*
# *15600 New Hampshire Avenue, Silver Spring, MD*

| Sample Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | Total BTEX (µg/L) | MTBE (µg/L) | TPH-GRO (µg/L) | TPH-DRO (µg/L) |
|---|---|---|---|---|---|---|---|---|
| **Mid-3** | | | | | | | | |
| 12/02/2010 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (100) | NS |
| 12/10/2010 | ND (1) | ND (1) | ND (1) | 0.72 | 0.72 | ND (1) | ND (100) | NS |
| 12/16/2010 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (100) | NS |
| 01/11/2011 | ND (1) | ND (1) | ND (1) | 0.38 J | 0.38 | ND (1) | ND (200) | ND (100) |
| 01/25/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (100) |
| 02/08/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (100) |
| 02/23/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (100) |
| 03/07/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (100) |
| 03/22/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (100) |
| 04/05/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (100) |
| 04/18/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (110) |
| 05/12/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (100) |
| 05/24/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (100) |
| 06/09/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (110) |
| 06/22/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (100) |
| 07/07/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (100) |
| 07/20/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (110) |
| 08/04/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (110) |
| 08/16/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (100) |
| 09/21/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (110) |
| 09/28/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (110) |
| 10/20/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (100) |
| 10/27/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (110) |
| 11/09/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (120) |
| 12/21/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (110) |
| 01/10/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 0.6 J | ND (200) | ND (110) |
| 01/25/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (110) |
| 02/08/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 4.3 | ND (200) | ND (110) |
| 02/24/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 41.1 | ND (200) | ND (110) |
| 03/20/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (110) |
| 03/30/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (110) |
| 04/10/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (110) |
| 04/24/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (110) |
| 05/10/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (110) |
| 05/22/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (110) |
| 06/13/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (110) |
| 06/27/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (110) |

***Notes:***
***(µg/L) - Micrograms per Liter***

***BTEX - Benzene, Toluene, Ethylbenzene, Xylenes***
***MTBE - Methyl tert-Butyl Ether***
***TPH-DRO - Total Petroleum Hydrocarbons - Diesel Range Organics***
***TPH-GRO - Total Petroleum Hydrocarbons - Gasoline Range Organics***

***ND - Below laboratory detection limit***
***ND(#) - Not Detected (Reporting Limit)***
***NS - Not Sampled***

# *Table 6*
# *Offsite Groundwater Extraction Analytical Data*
# *Former Shell Service Station #137675*
# *15600 New Hampshire Avenue, Silver Spring, MD*

| *Sample Date* | *Benzene (µg/L)* | *Toluene (µg/L)* | *Ethylbenzene (µg/L)* | *Total Xylenes (µg/L)* | *Total BTEX (µg/L)* | *MTBE (µg/L)* | *TPH-GRO (µg/L)* | *TPH-DRO (µg/L)* |
|---|---|---|---|---|---|---|---|---|
| **Offsite Effluent** | | | | | | | | |
| 12/02/2010 | ND (1) | ND (1) | ND (1) | 1.44 | 1.44 | ND (1) | NS | NS |
| 12/10/2010 | ND (1) | ND (1) | ND (1) | 1.19 | 1.19 | ND (1) | NS | NS |
| 12/16/2010 | ND (1) | ND (1) | 0.4 | 4.1 | 4.5 | ND (1) | NS | NS |
| 01/11/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (110) |
| 01/25/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (100) |
| 02/08/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (110) |
| 02/23/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (100) |
| 03/07/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (110) |
| 03/22/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (100) |
| 04/05/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (100) |
| 04/18/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (110) |
| 05/12/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (100) |
| 05/24/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (100) |
| 06/09/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (100) |
| 06/22/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (100) |
| 07/07/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (100) |
| 07/20/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (100) |
| 08/04/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (110) |
| 08/16/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (100) |
| 09/21/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (110) |
| 09/28/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (110) |
| 10/20/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (110) |
| 10/27/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (110) |
| 11/09/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (120) |
| 12/21/2011 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (110) |
| 01/10/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (110) |
| 01/25/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (120) |
| 02/08/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (110) |
| 02/24/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (110) |
| 03/20/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (110) |
| 03/30/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (110) |
| 04/10/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (110) |
| 04/24/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (120) |
| 05/10/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 0.71 J | ND (200) | ND (110) |
| 05/22/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | 0.52 J | ND (200) | ND (110) |
| 06/13/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (110) |
| 06/27/2012 | ND (1) | ND (1) | ND (1) | ND (1) | ND (4) | ND (1) | ND (200) | ND (110) |

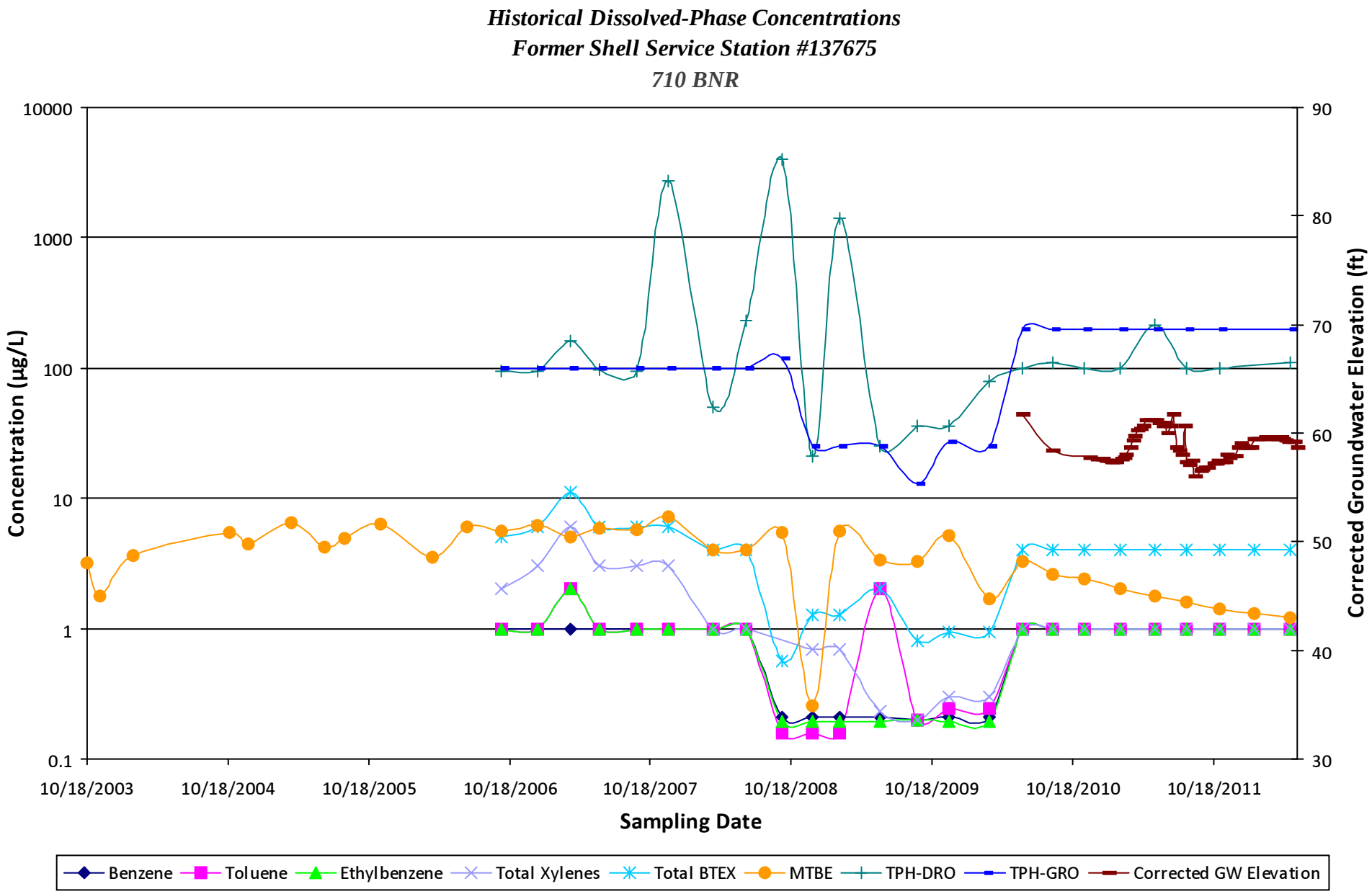
***Notes:***
***(µg/L) - Micrograms per Liter***

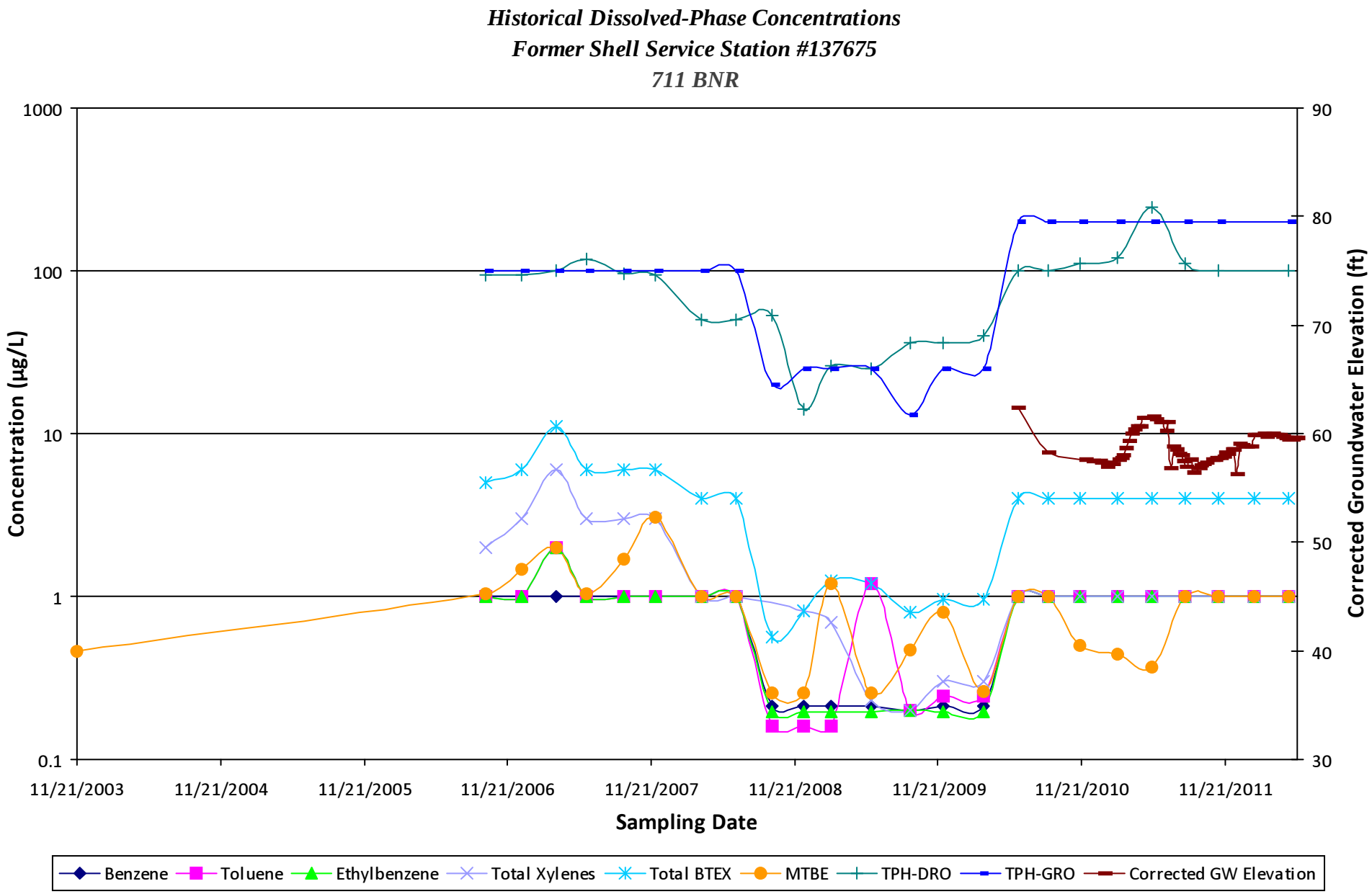
***BTEX - Benzene, Toluene, Ethylbenzene, Xylenes***
***MTBE - Methyl tert-Butyl Ether***
***TPH-DRO - Total Petroleum Hydrocarbons - Diesel Range Organics***
***TPH-GRO - Total Petroleum Hydrocarbons - Gasoline Range Organics***

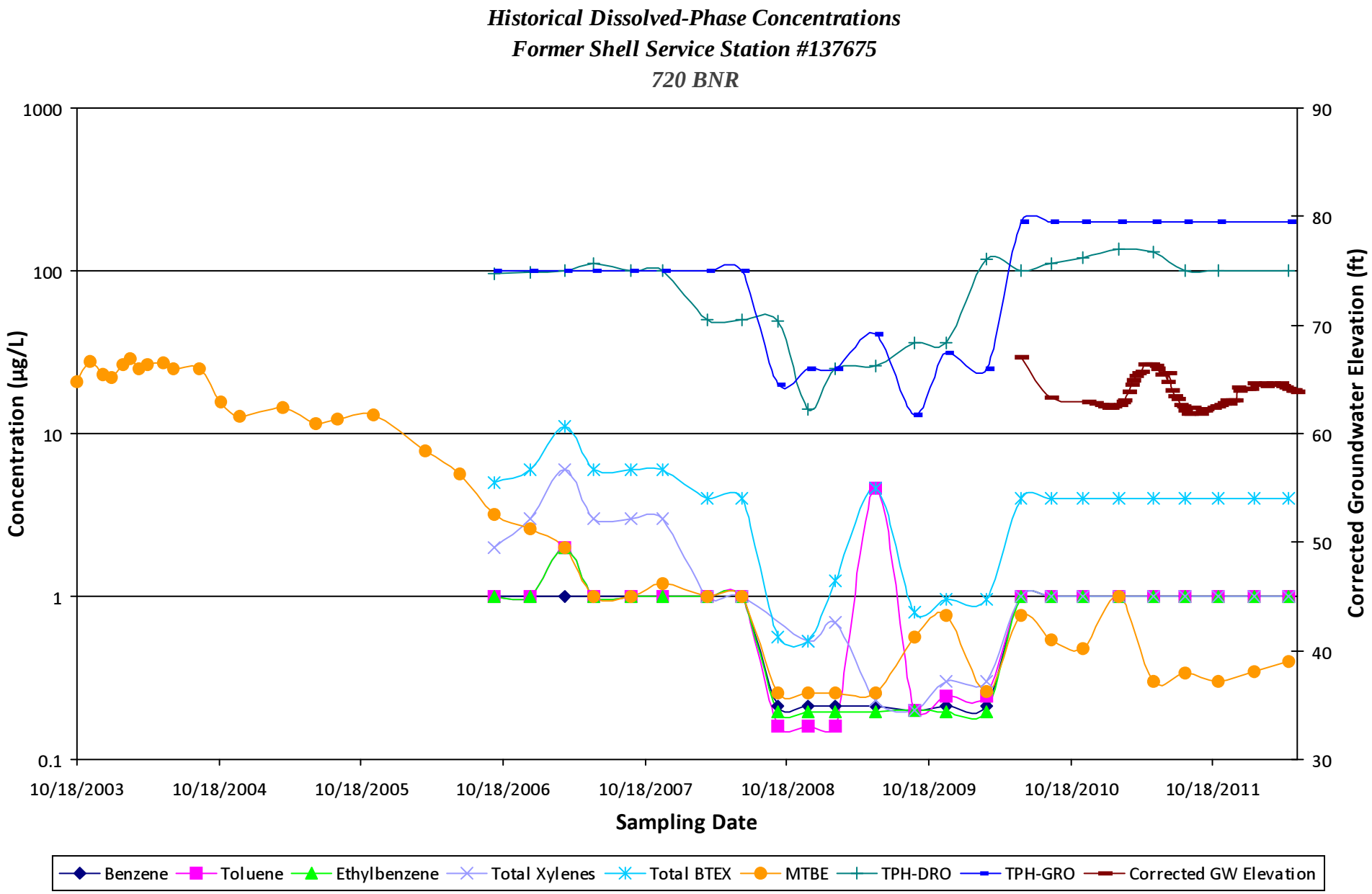
***ND - Below laboratory detection limit***
***ND(#) - Not Detected (Reporting Limit)***
***NS - Not Sampled***

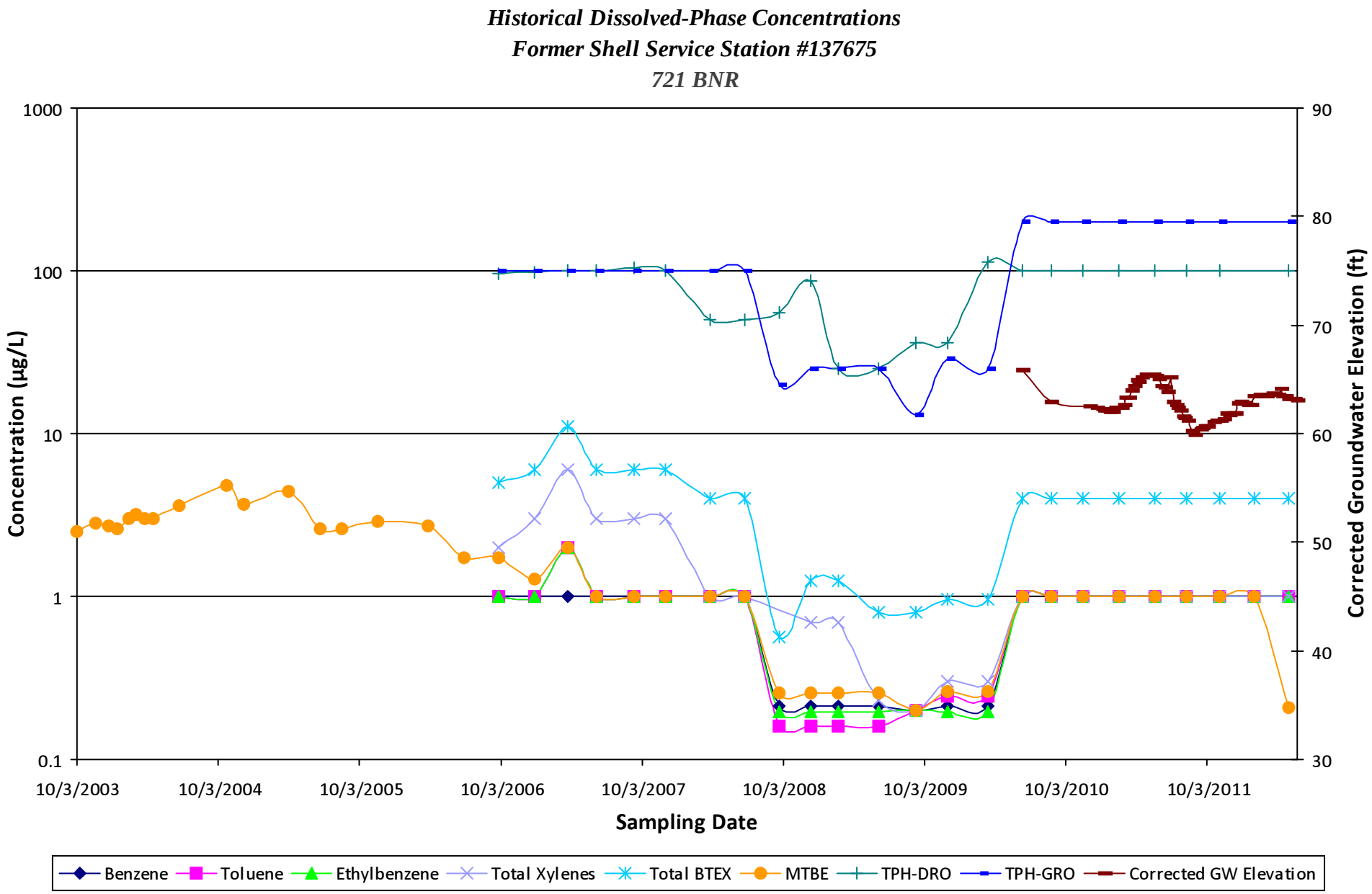
# Appendix A

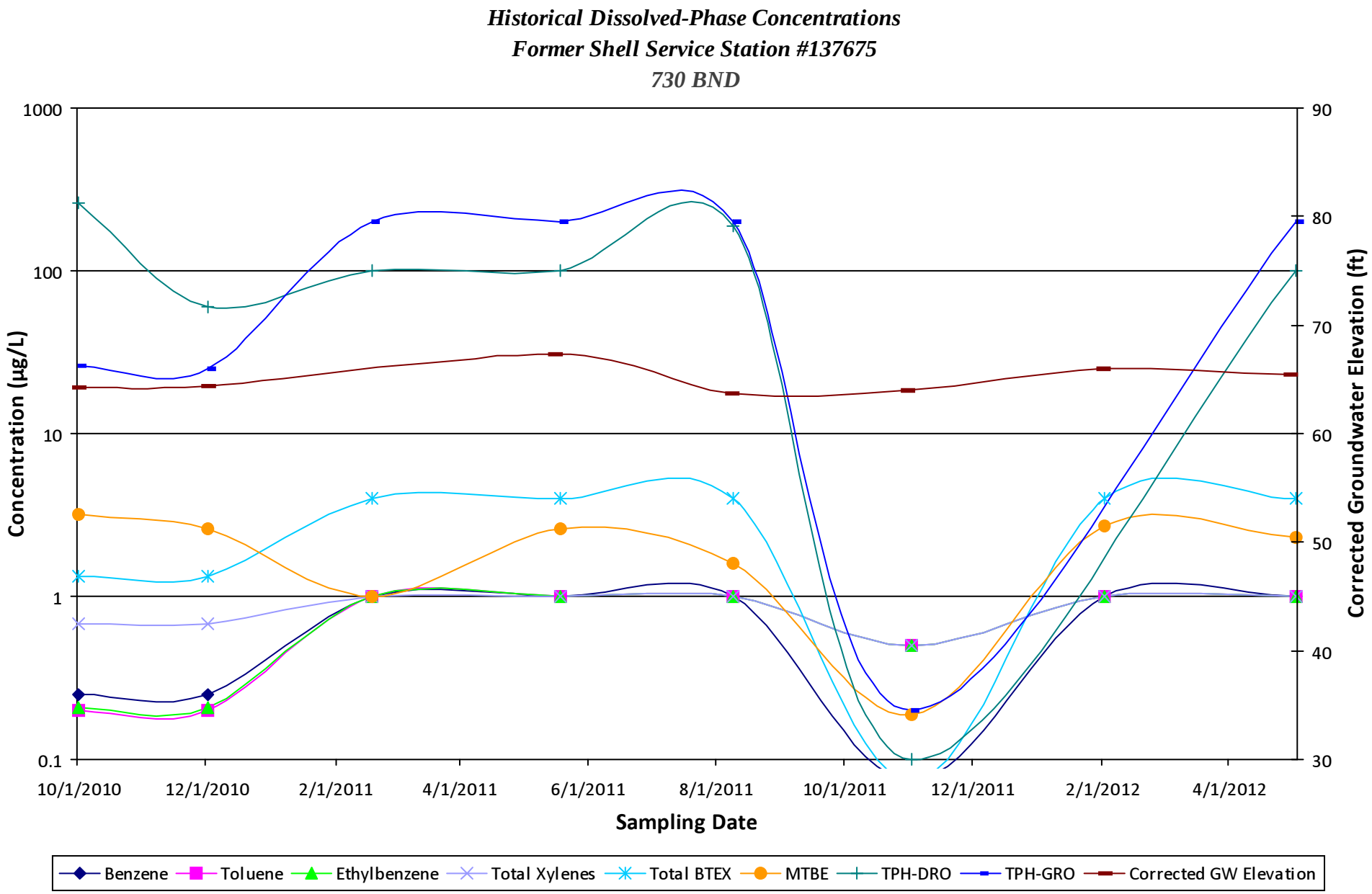
# Historical Dissolved-Phase Concentrations Graphs

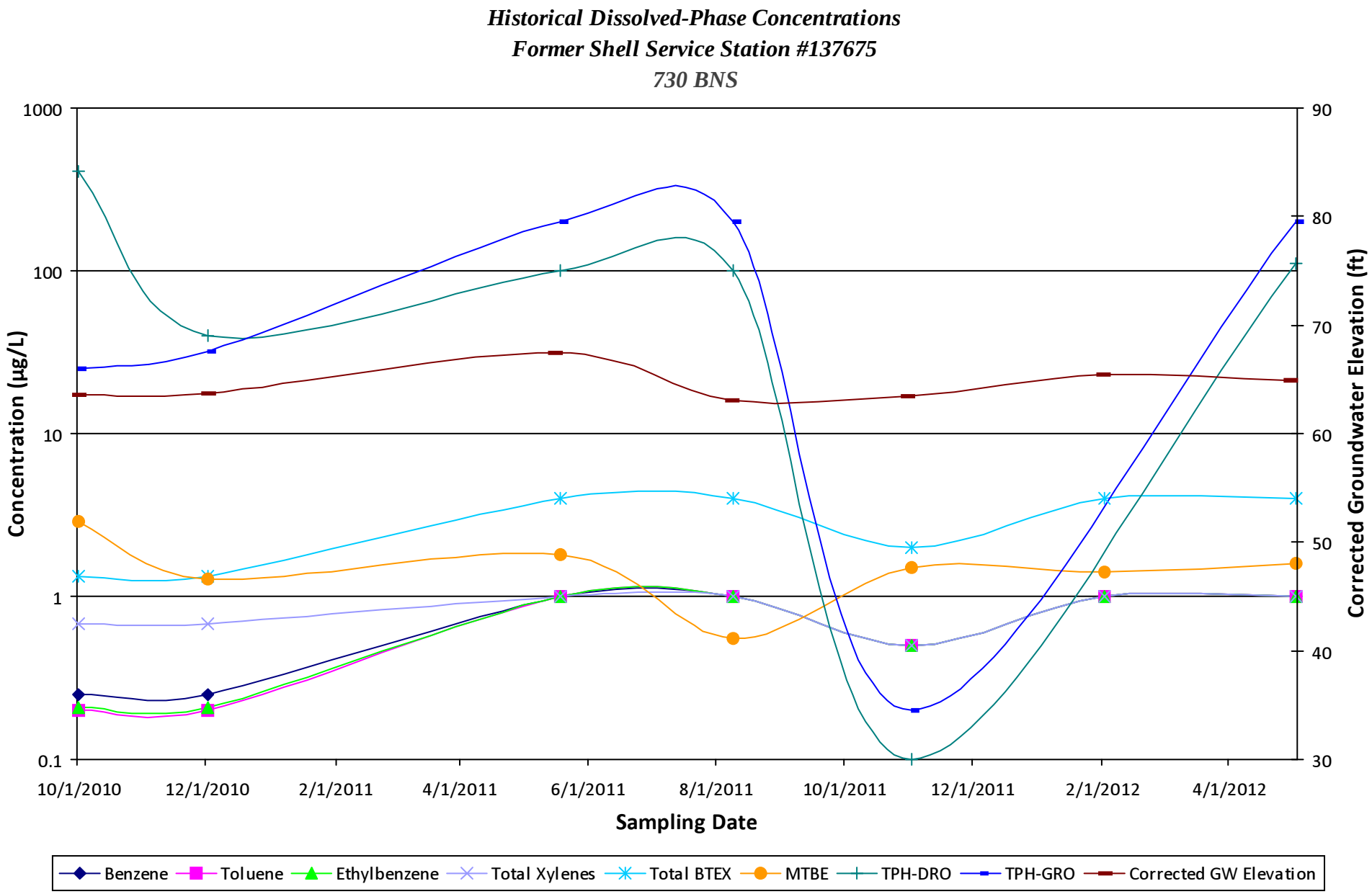

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
710 BNR
Concentration (µg/L)
10000
1000
100
10
1
0.1
Corrected Groundwater Elevation (ft)
90
80
70
60
50
40
30
10/18/2003
10/18/2004
10/18/2005
10/18/2006
10/18/2007
10/18/2008
10/18/2009
10/18/2010
10/18/2011
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

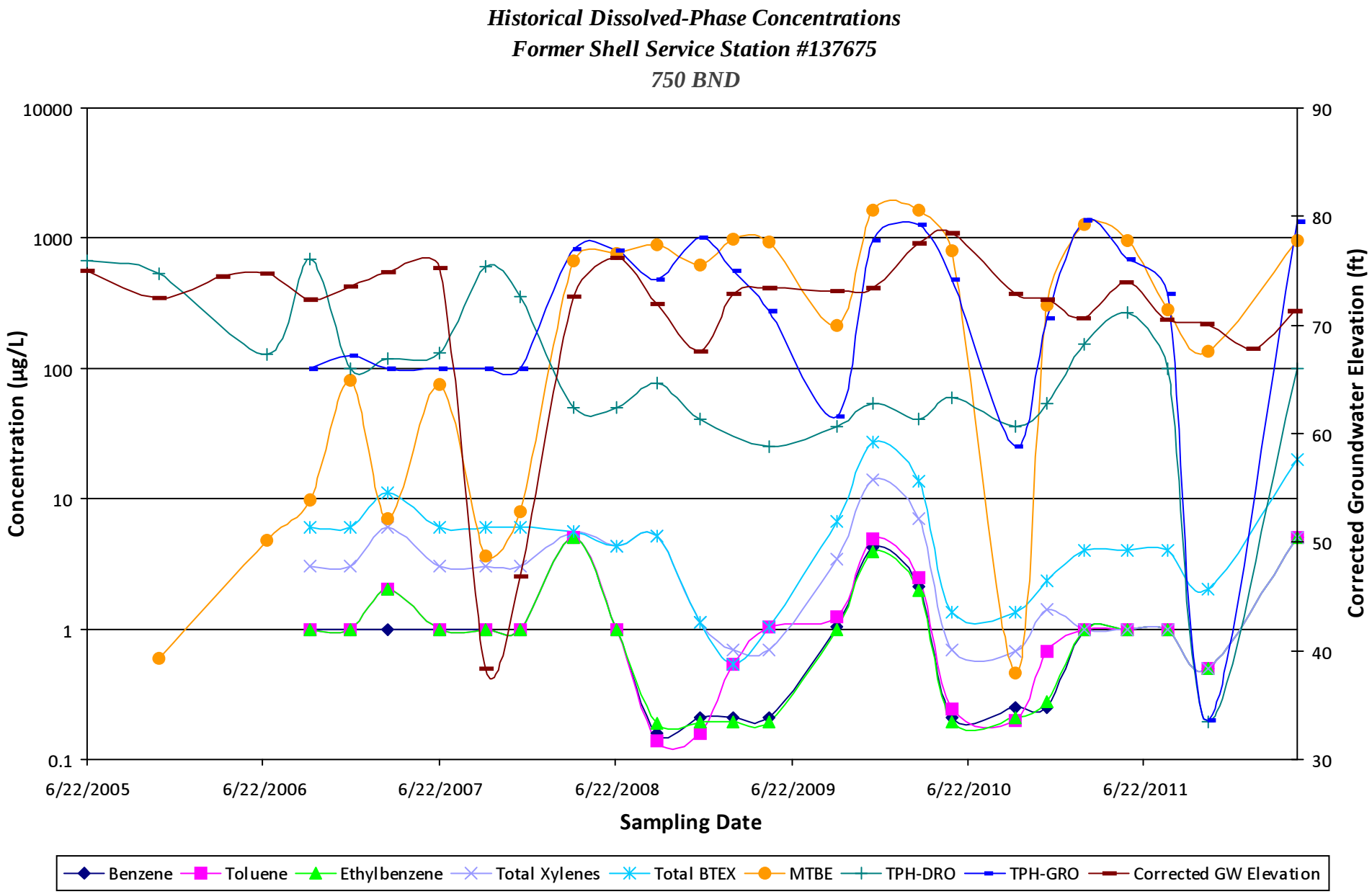

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
711 BNR
Concentration (µg/L)
1000
100
10
1
0.1
Corrected Groundwater Elevation (ft)
90
80
70
60
50
40
30
11/21/2003
11/21/2004
11/21/2005
11/21/2006
11/21/2007
11/21/2008
11/21/2009
11/21/2010
11/21/2011
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

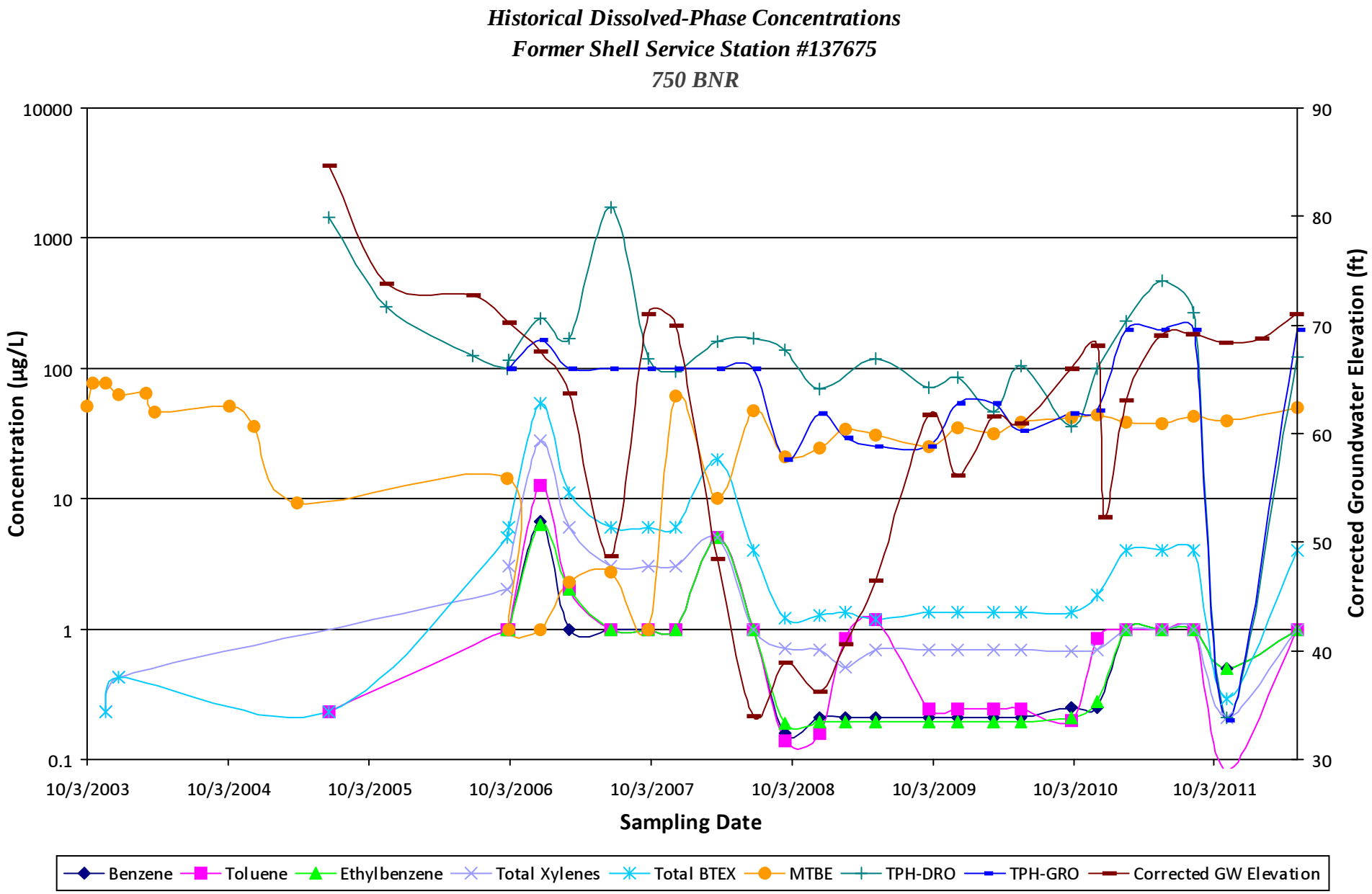

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
720 BNR
Concentration (µg/L)
1000
100
10
1
0.1
Corrected Groundwater Elevation (ft)
90
80
70
60
50
40
30
10/18/2003
10/18/2004
10/18/2005
10/18/2006
10/18/2007
10/18/2008
10/18/2009
10/18/2010
10/18/2011
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

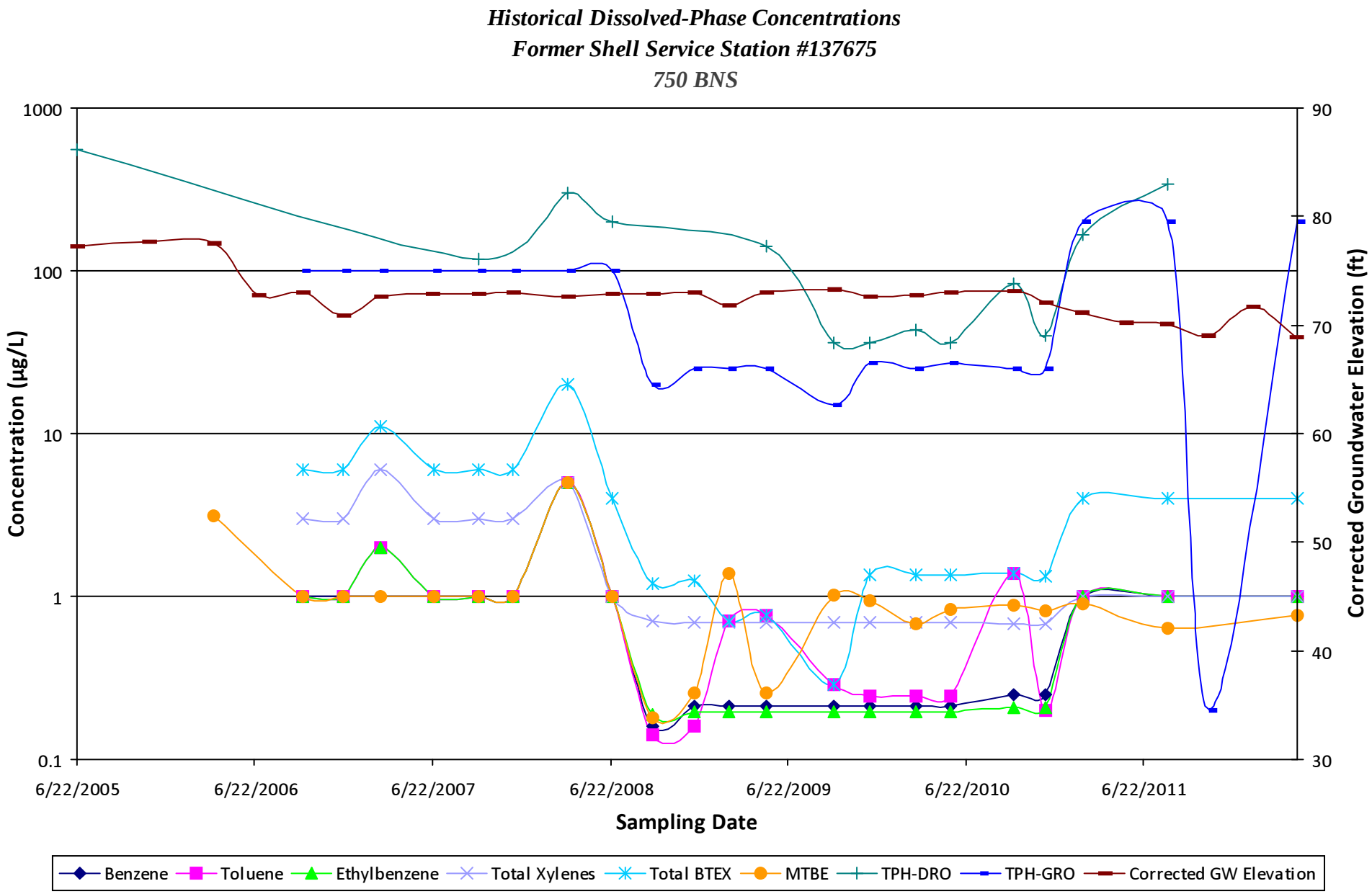

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
721 BNR
Concentration (µg/L)
1000
100
10
1
0.1
Corrected Groundwater Elevation (ft)
90
80
70
60
50
40
30
10/3/2003
10/3/2004
10/3/2005
10/3/2006
10/3/2007
10/3/2008
10/3/2009
10/3/2010
10/3/2011
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

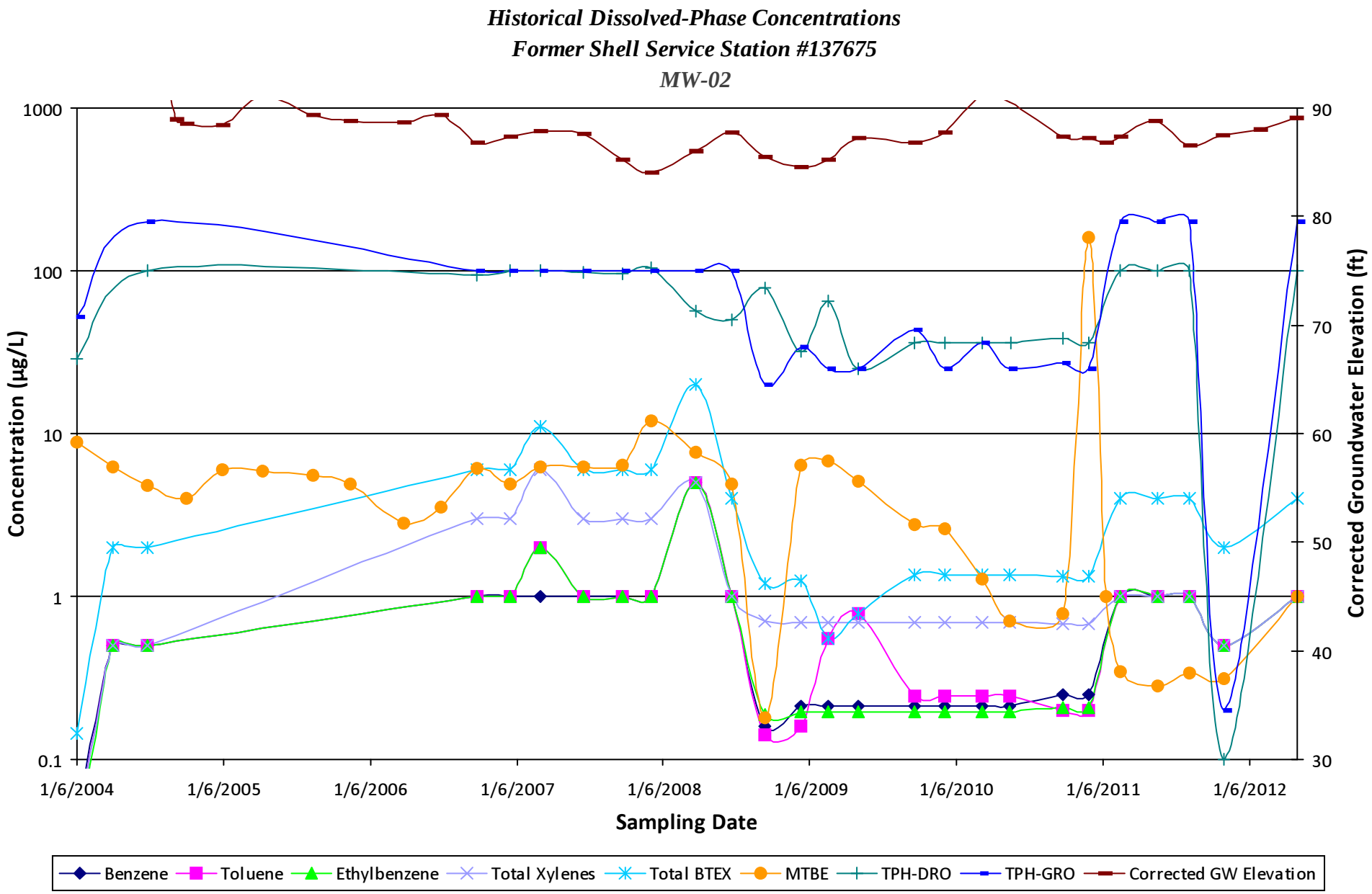

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
730 BND
Concentration (µg/L)
1000
100
10
1
0.1
Corrected Groundwater Elevation (ft)
90
80
70
60
50
40
30
10/1/2010
12/1/2010
2/1/2011
4/1/2011
6/1/2011
8/1/2011
10/1/2011
12/1/2011
2/1/2012
4/1/2012
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

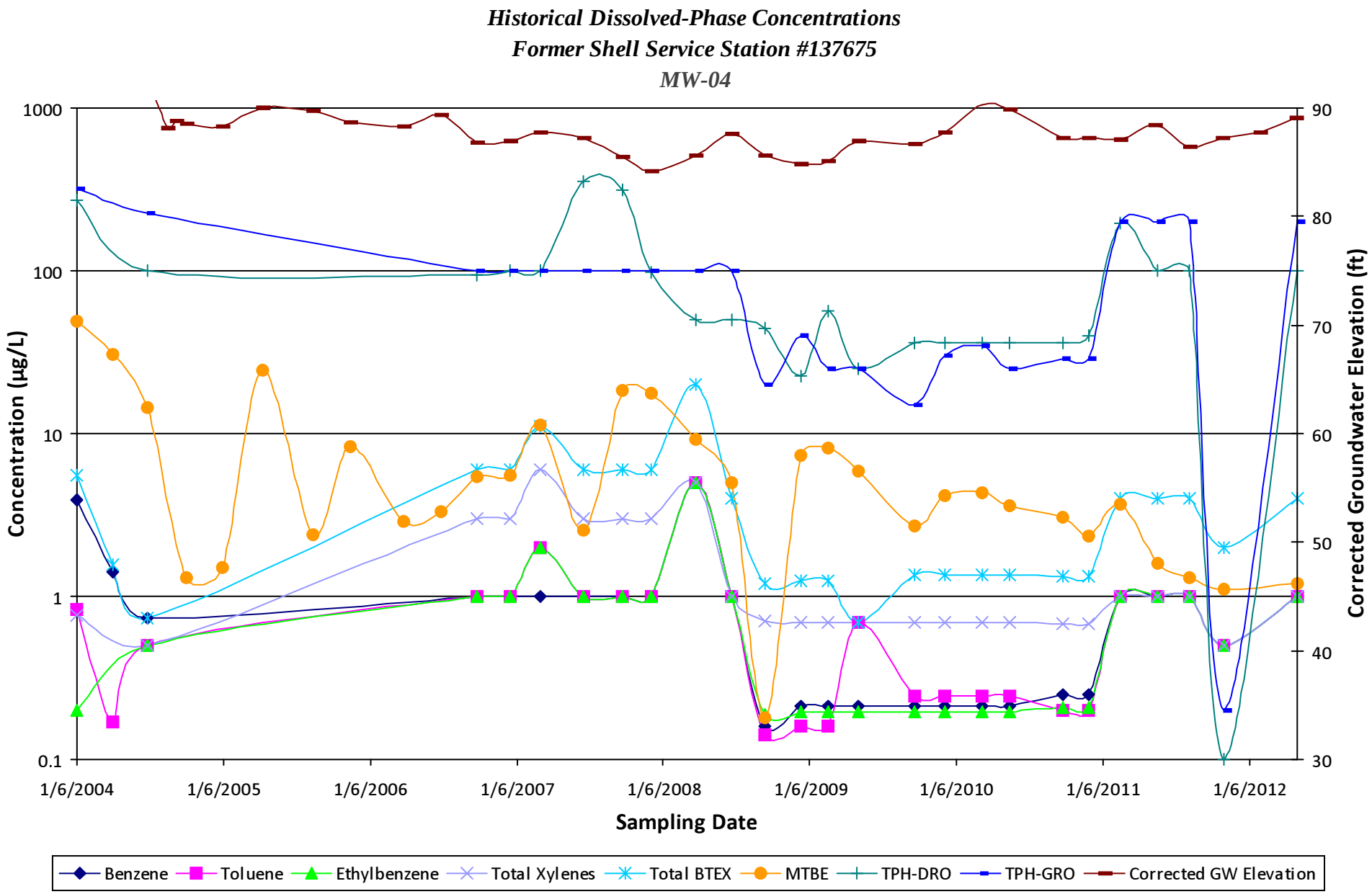

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
730 BNS
Concentration (µg/L)
1000
100
10
1
0.1
Corrected Groundwater Elevation (ft)
90
80
70
60
50
40
30
10/1/2010
12/1/2010
2/1/2011
4/1/2011
6/1/2011
8/1/2011
10/1/2011
12/1/2011
2/1/2012
4/1/2012
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

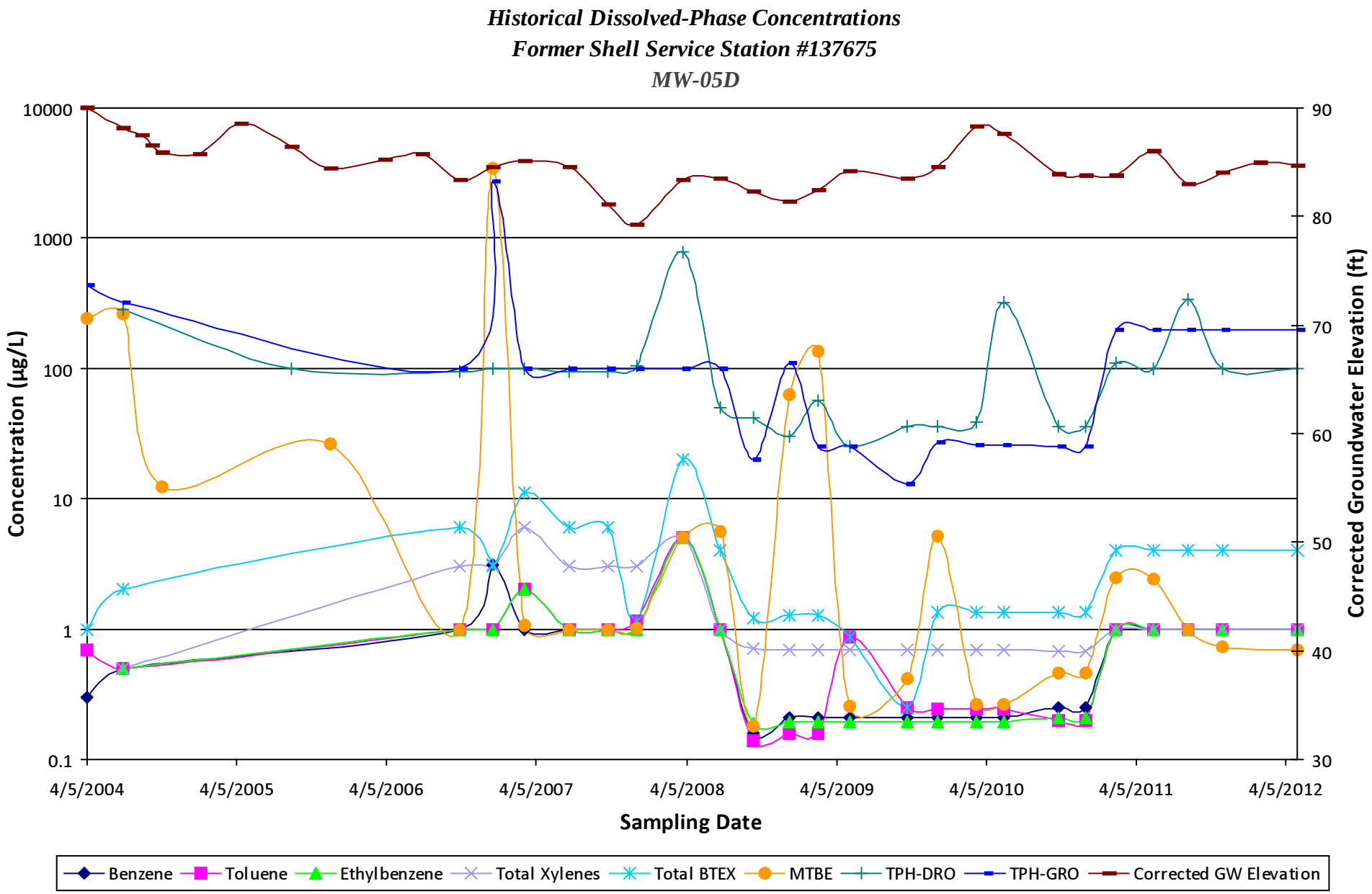

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
750 BND
Concentration (µg/L)
10000
1000
100
10
1
0.1
Corrected Groundwater Elevation (ft)
90
80
70
60
50
40
30
6/22/2005
6/22/2006
6/22/2007
6/22/2008
6/22/2009
6/22/2010
6/22/2011
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

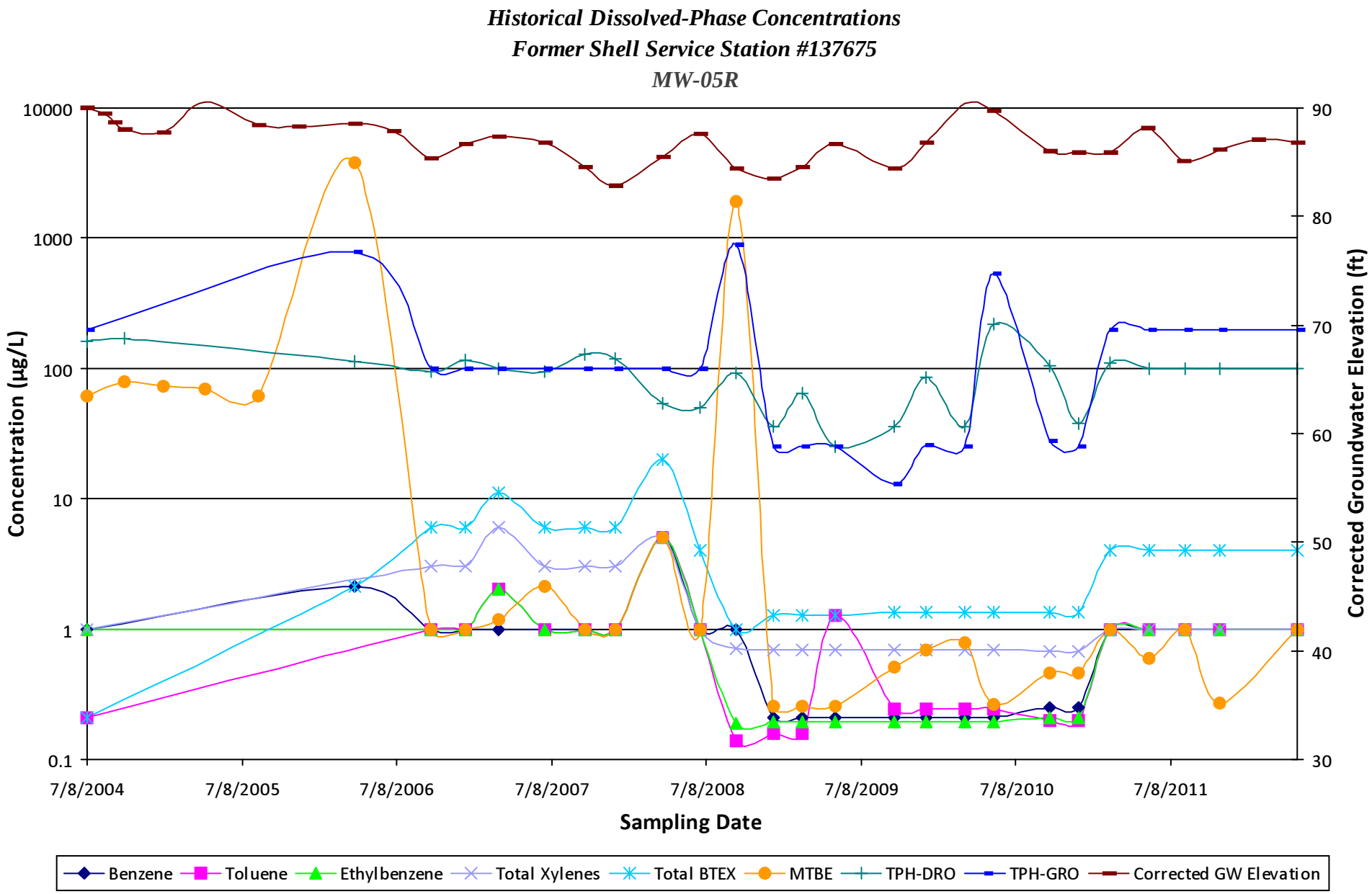

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
750 BNR
Concentration (µg/L)
10000
1000
100
10
1
0.1
Corrected Groundwater Elevation (ft)
90
80
70
60
50
40
30
10/3/2003
10/3/2004
10/3/2005
10/3/2006
10/3/2007
10/3/2008
10/3/2009
10/3/2010
10/3/2011
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

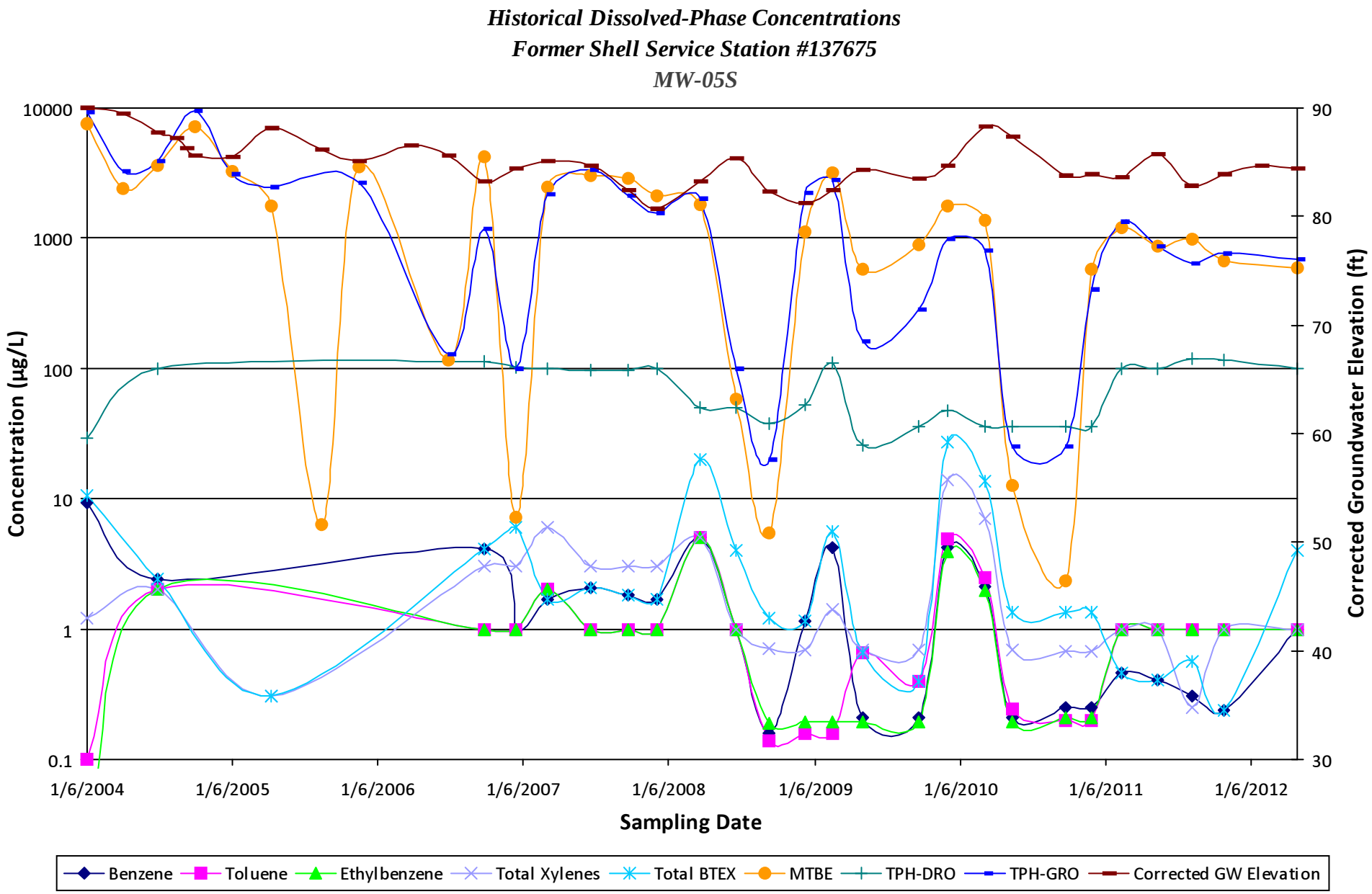

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
750 BNS
Concentration (µg/L)
1000
100
10
1
0.1
Corrected Groundwater Elevation (ft)
90
80
70
60
50
40
30
6/22/2005
6/22/2006
6/22/2007
6/22/2008
6/22/2009
6/22/2010
6/22/2011
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

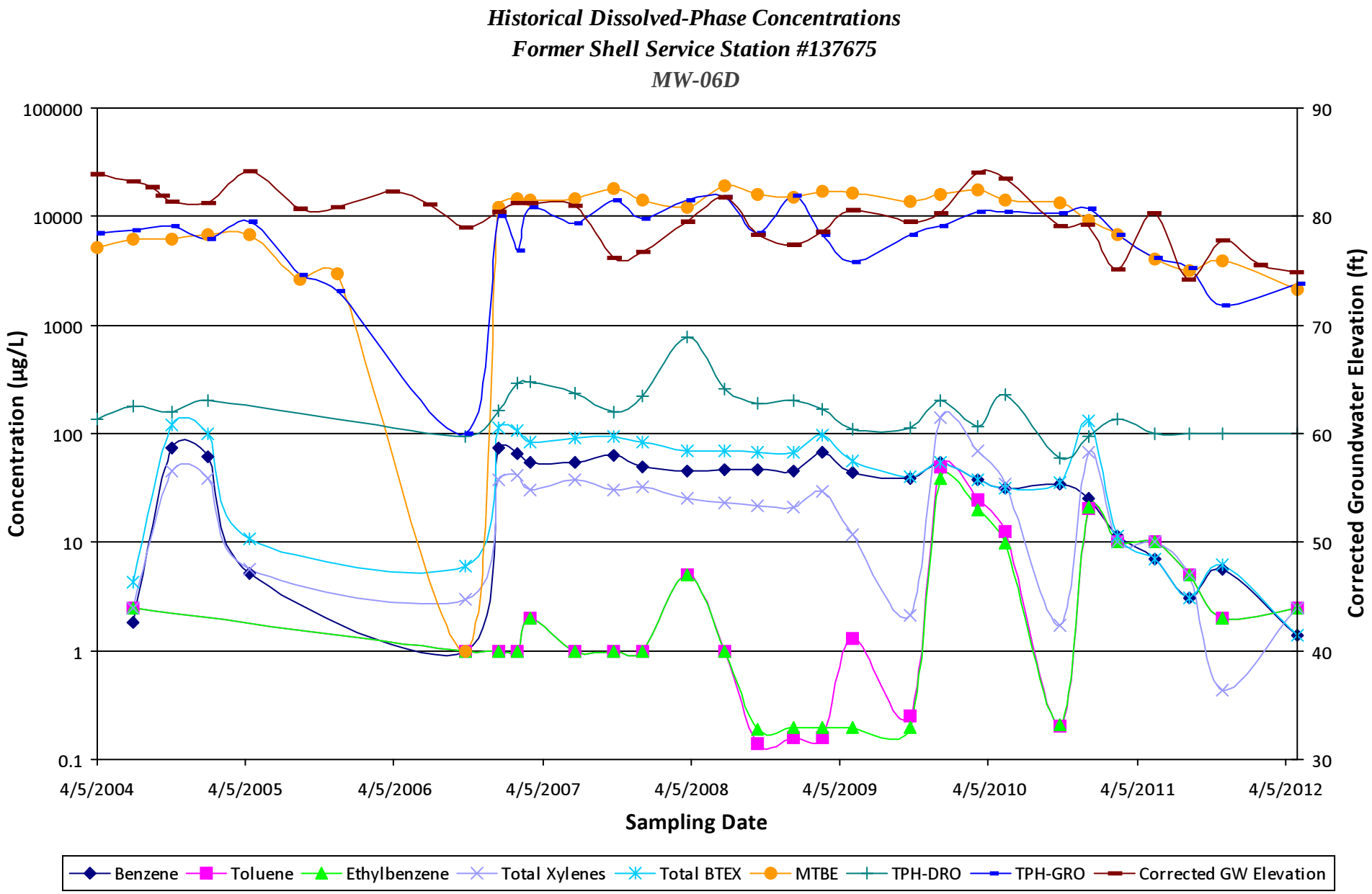

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
MW-02
Concentration (µg/L)
1000
100
10
1
0.1
Corrected Groundwater Elevation (ft)
90
80
70
60
50
40
30
1/6/2004
1/6/2005
1/6/2006
1/6/2007
1/6/2008
1/6/2009
1/6/2010
1/6/2011
1/6/2012
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

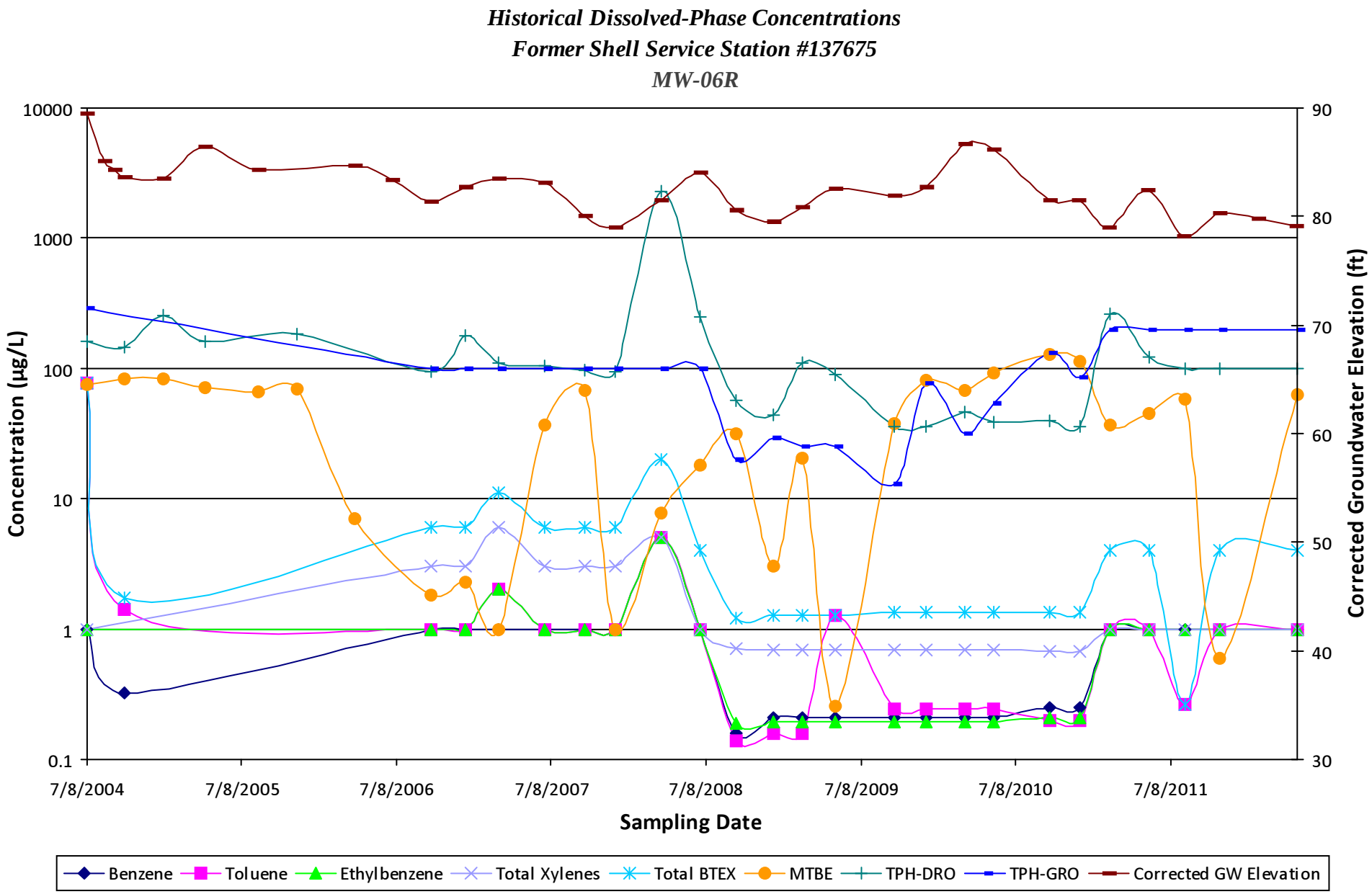

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
MW-04
Concentration (µg/L)
1000
100
10
1
0.1
Corrected Groundwater Elevation (ft)
90
80
70
60
50
40
30
1/6/2004
1/6/2005
1/6/2006
1/6/2007
1/6/2008
1/6/2009
1/6/2010
1/6/2011
1/6/2012
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

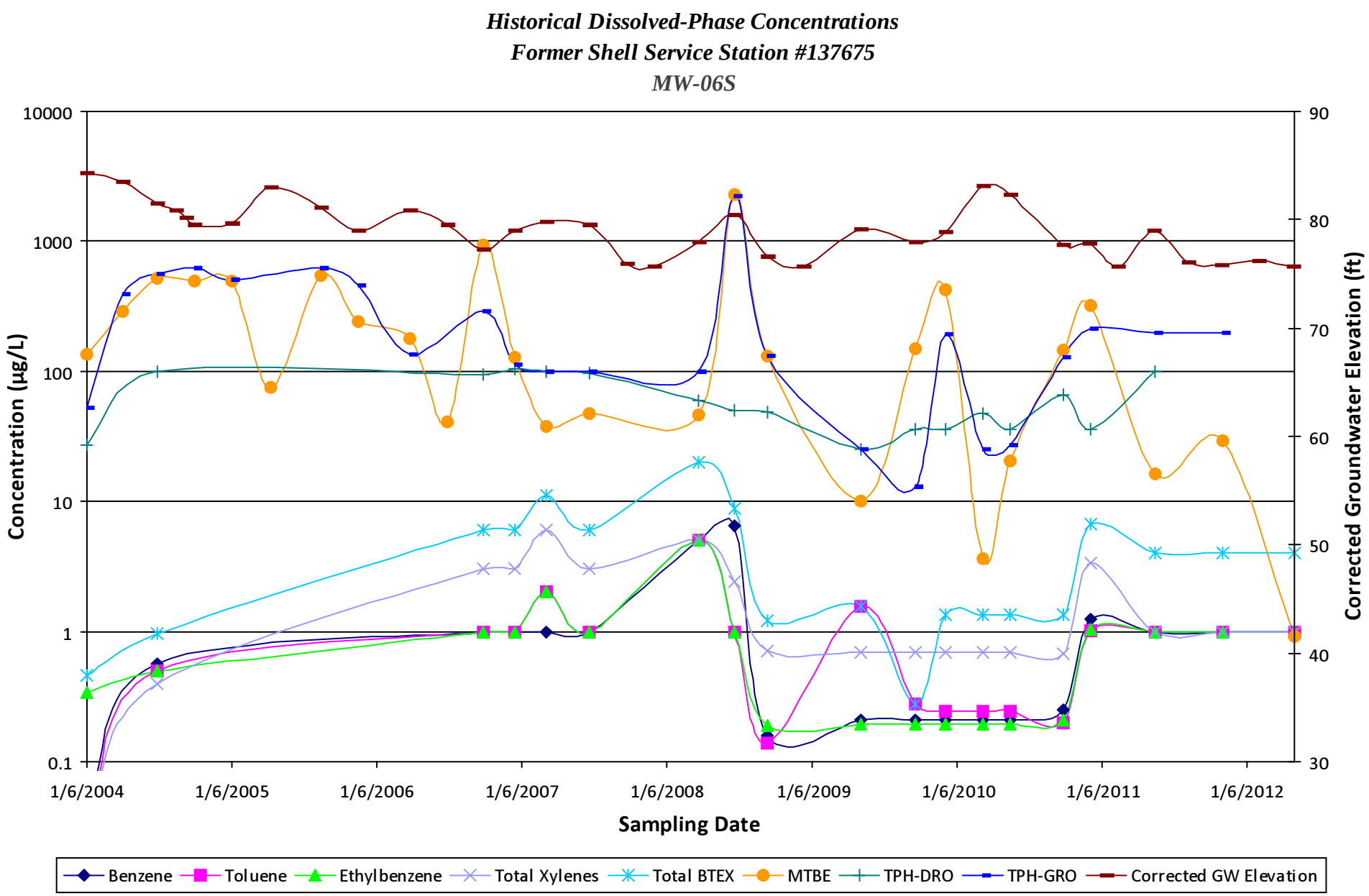

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
MW-05D
Concentration (µg/L)
10000
1000
100
10
1
0.1
Corrected Groundwater Elevation (ft)
90
80
70
60
50
40
30
4/5/2004
4/5/2005
4/5/2006
4/5/2007
4/5/2008
4/5/2009
4/5/2010
4/5/2011
4/5/2012
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

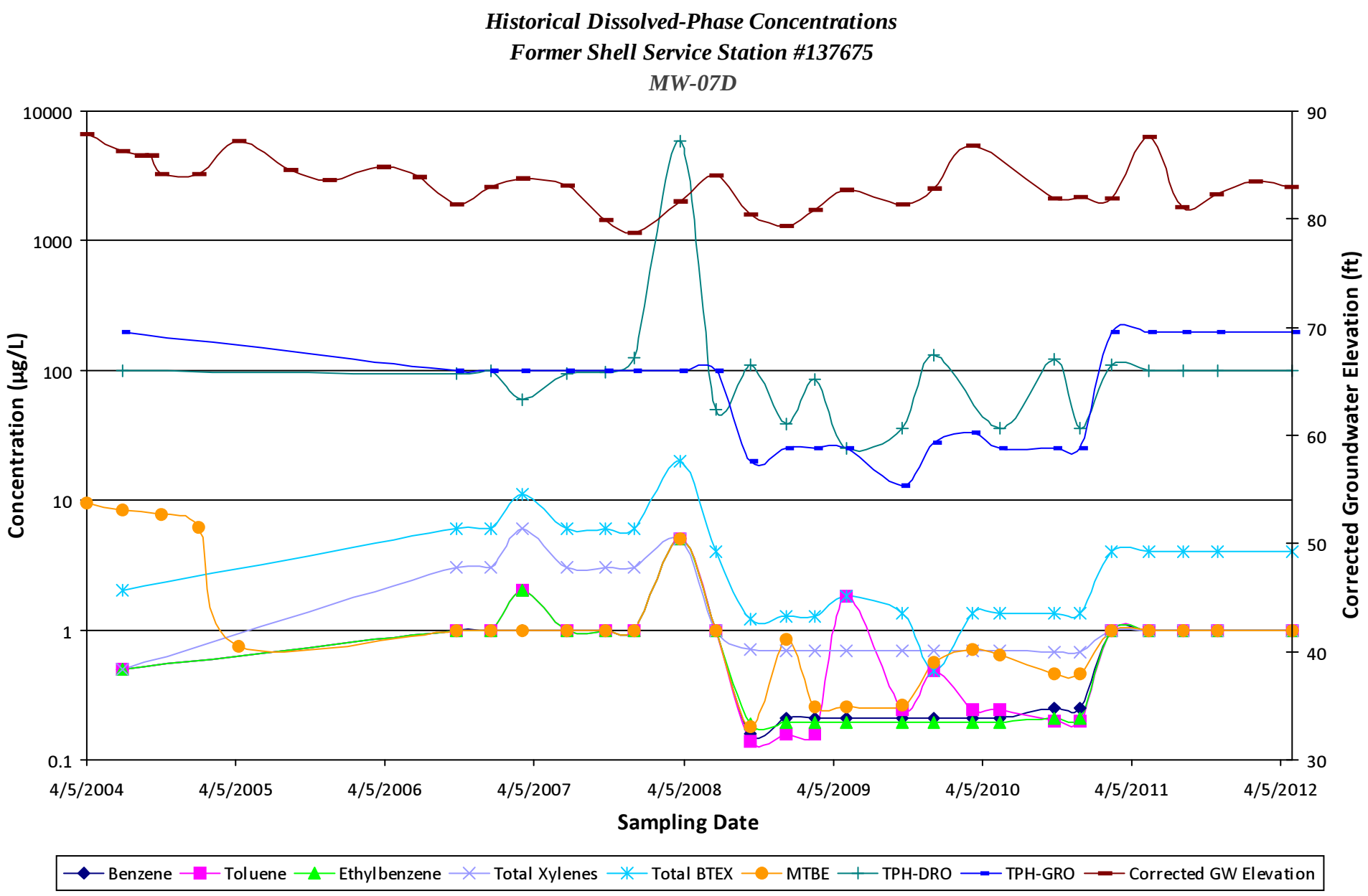

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
MW-05R
Concentration (µg/L)
10000
1000
100
10
1
0.1
Corrected Groundwater Elevation (ft)
90
80
70
60
50
40
30
7/8/2004
7/8/2005
7/8/2006
7/8/2007
7/8/2008
7/8/2009
7/8/2010
7/8/2011
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

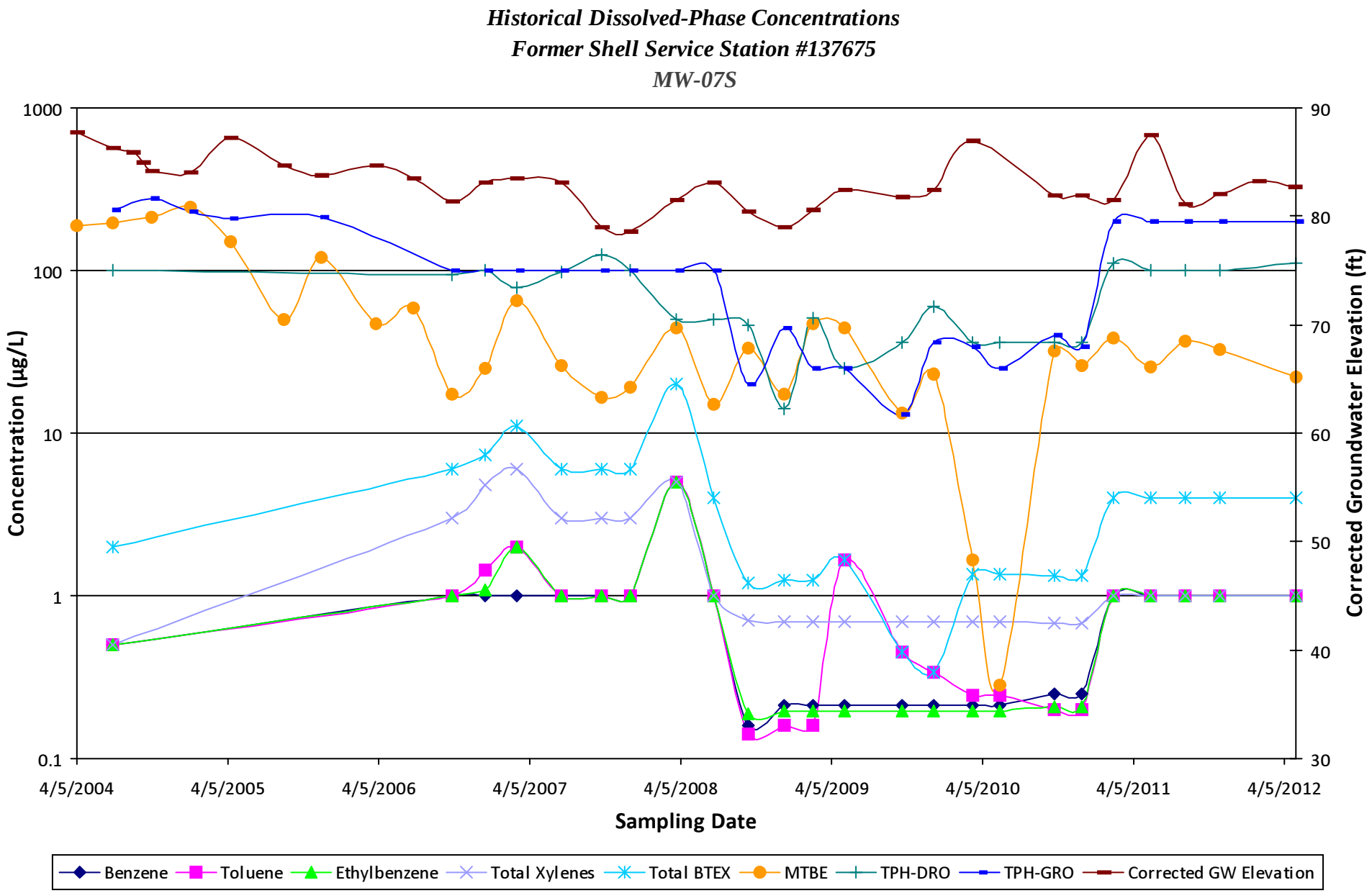

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
MW-05S
Concentration (µg/L)
10000
1000
100
10
1
0.1
Corrected Groundwater Elevation (ft)
90
80
70
60
50
40
30
1/6/2004
1/6/2005
1/6/2006
1/6/2007
1/6/2008
1/6/2009
1/6/2010
1/6/2011
1/6/2012
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

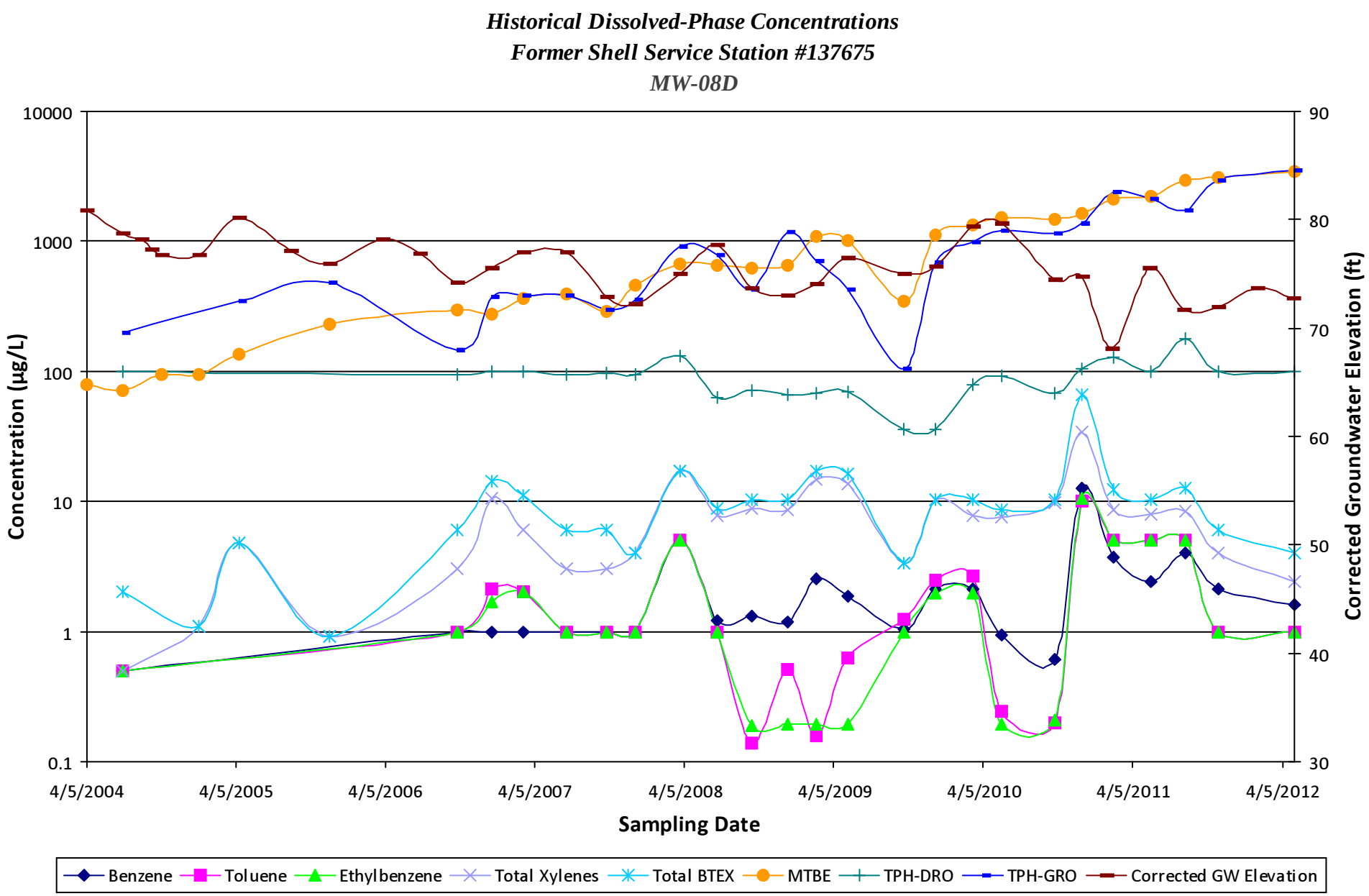

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
MW-06D
Concentration (µg/L)
100000
10000
1000
100
10
1
0.1
Corrected Groundwater Elevation (ft)
90
80
70
60
50
40
30
4/5/2004
4/5/2005
4/5/2006
4/5/2007
4/5/2008
4/5/2009
4/5/2010
4/5/2011
4/5/2012
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

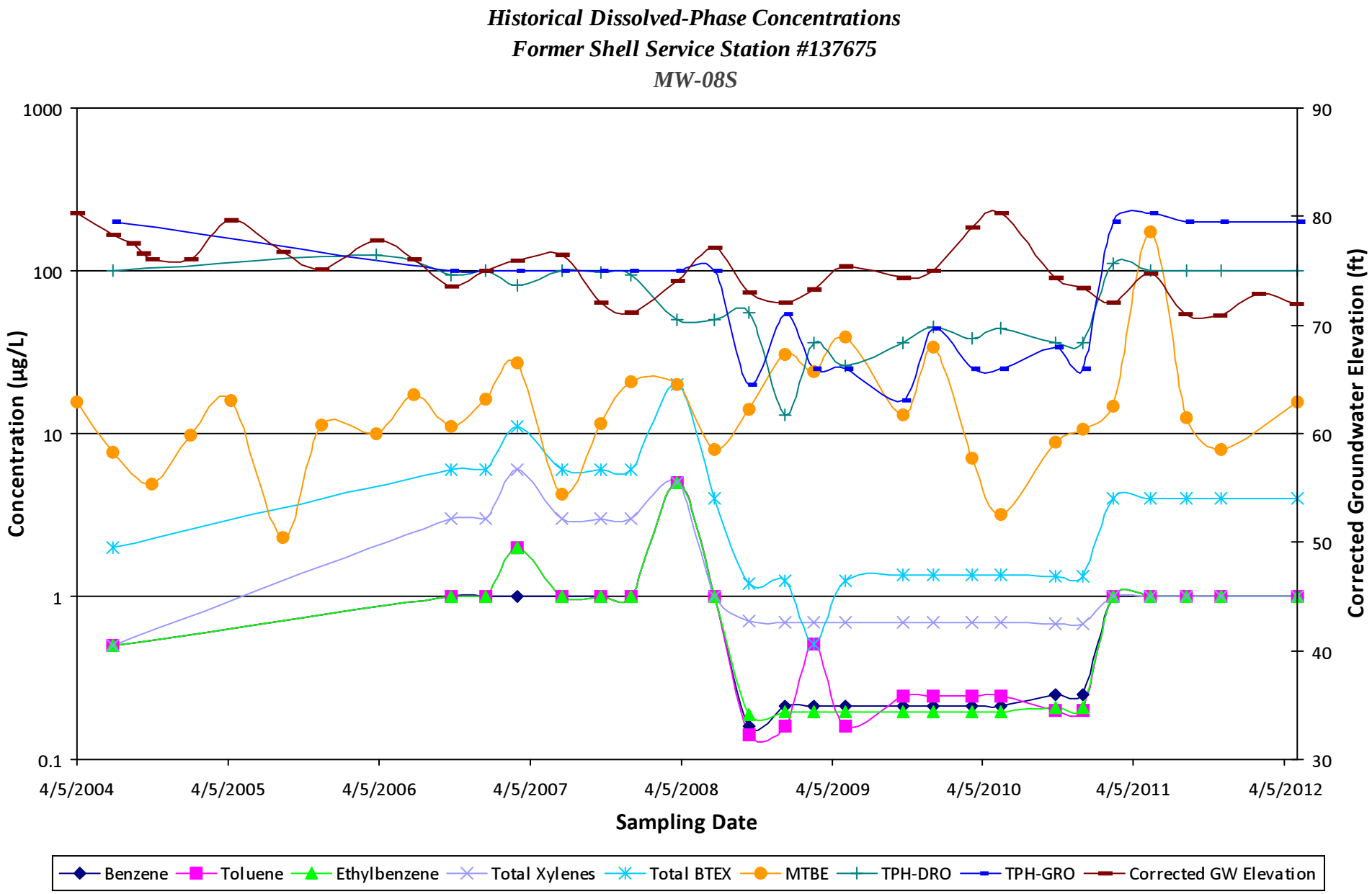

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
MW-06R
Concentration (µg/L)
10000
1000
100
10
1
0.1
Corrected Groundwater Elevation (ft)
90
80
70
60
50
40
30
7/8/2004
7/8/2005
7/8/2006
7/8/2007
7/8/2008
7/8/2009
7/8/2010
7/8/2011
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

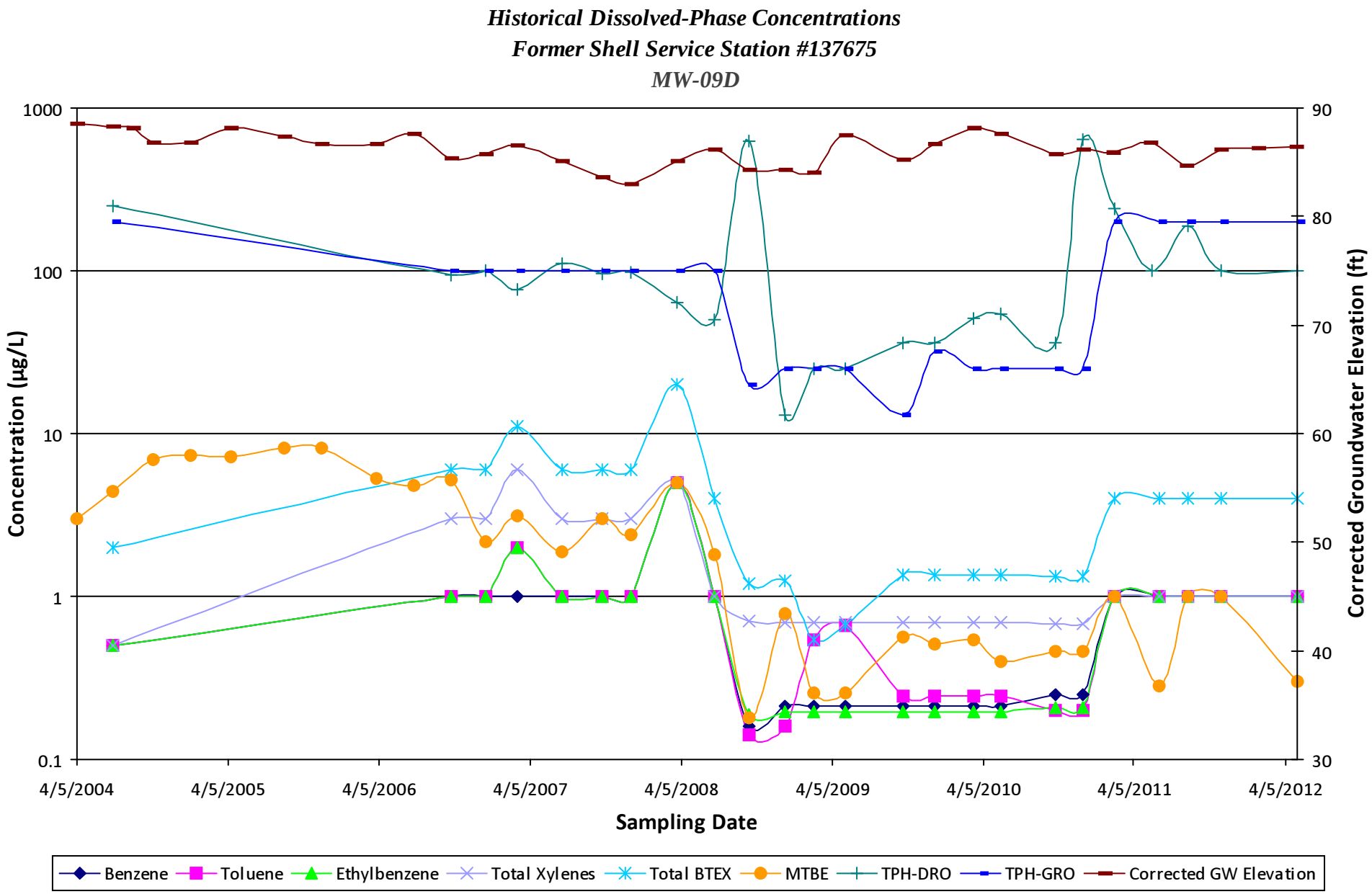

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
MW-06S
Concentration (µg/L)
10000
1000
100
10
1
0.1
Corrected Groundwater Elevation (ft)
90
80
70
60
50
40
30
1/6/2004
1/6/2005
1/6/2006
1/6/2007
1/6/2008
1/6/2009
1/6/2010
1/6/2011
1/6/2012
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

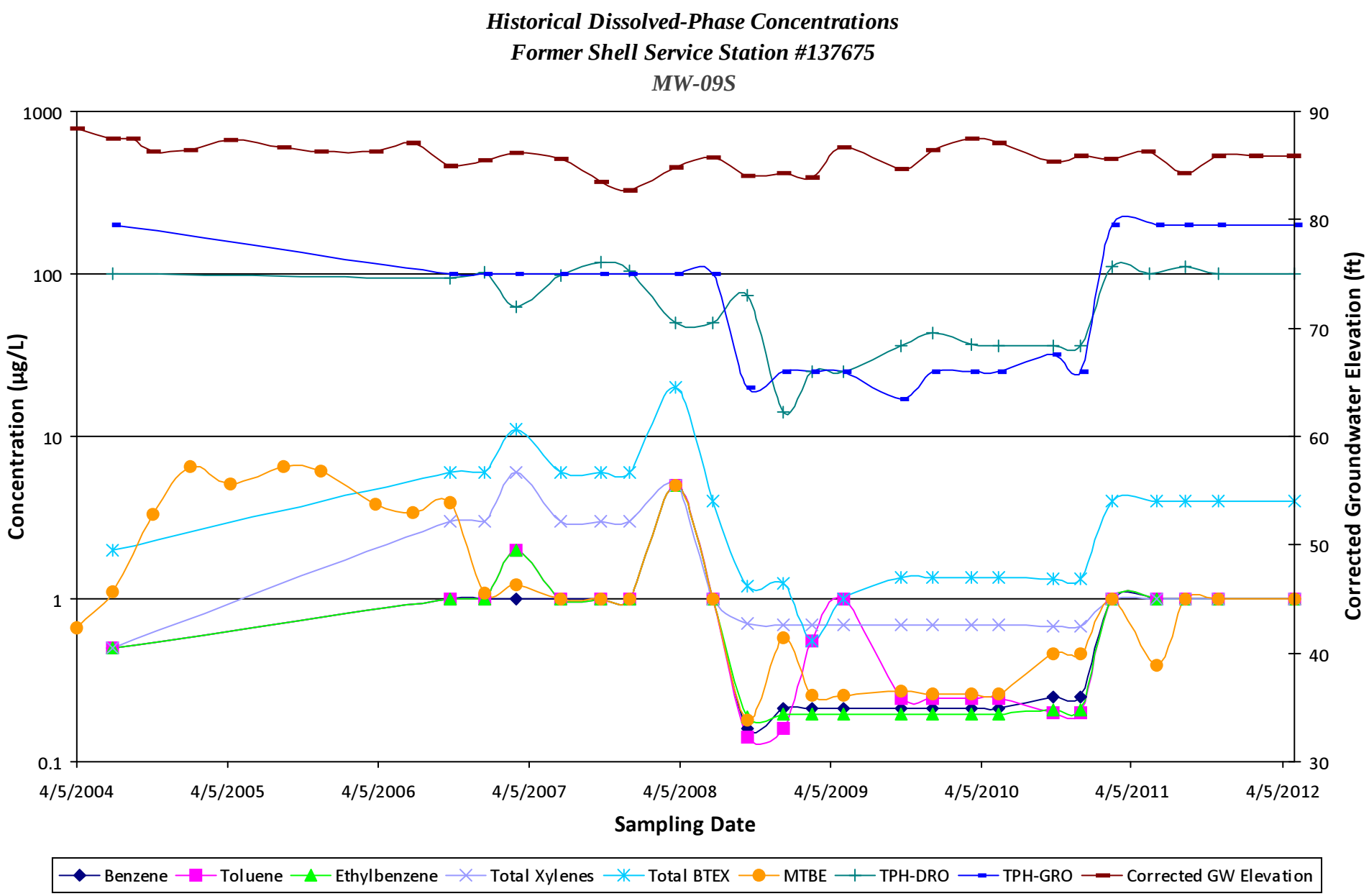

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
MW-07D
Concentration (µg/L)
10000
1000
100
10
1
0.1
Corrected Groundwater Elevation (ft)
90
80
70
60
50
40
30
4/5/2004
4/5/2005
4/5/2006
4/5/2007
4/5/2008
4/5/2009
4/5/2010
4/5/2011
4/5/2012
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

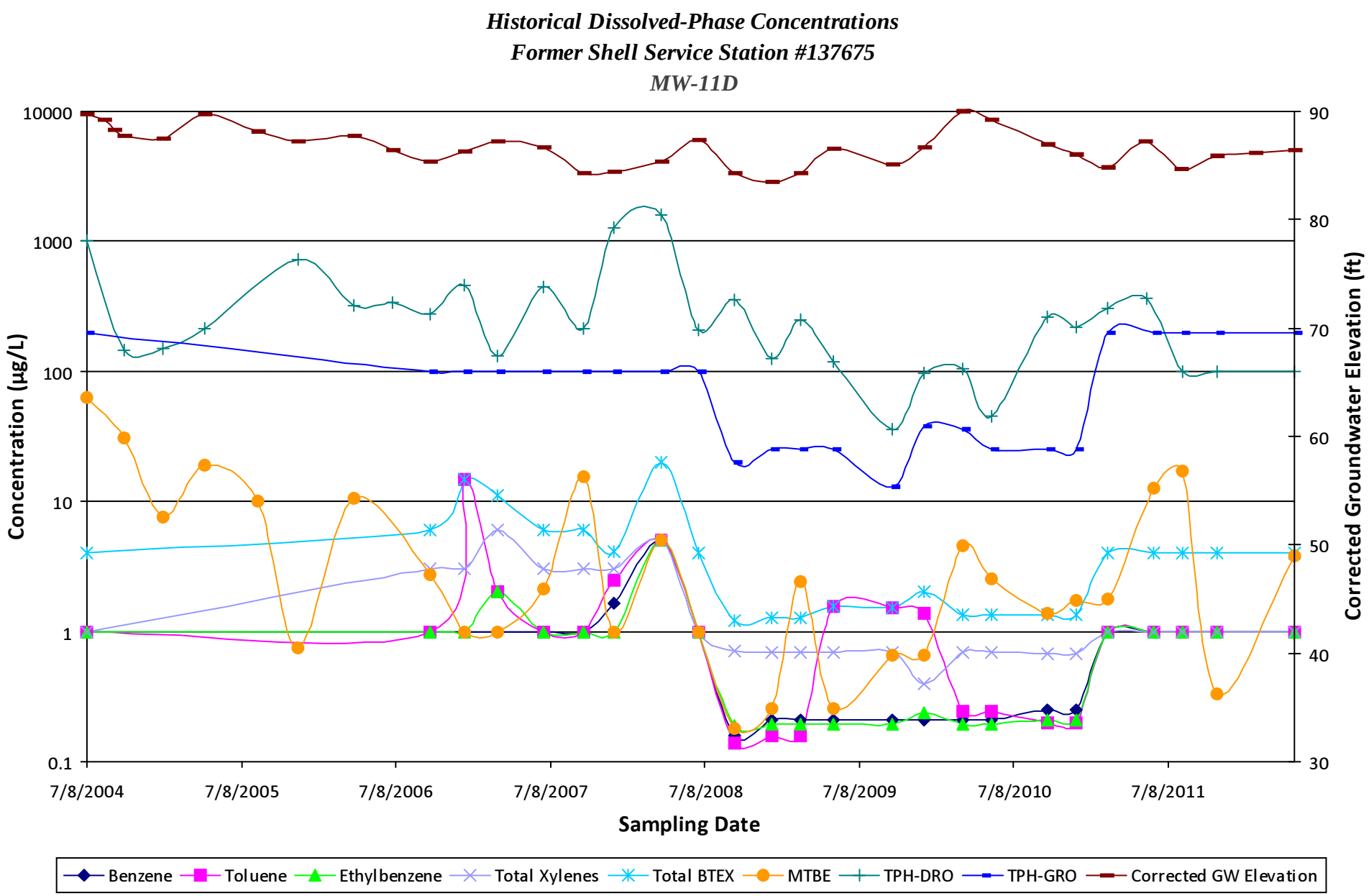

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
MW-07S
Concentration (µg/L)
1000
100
10
1
0.1
Corrected Groundwater Elevation (ft)
90
80
70
60
50
40
30
4/5/2004
4/5/2005
4/5/2006
4/5/2007
4/5/2008
4/5/2009
4/5/2010
4/5/2011
4/5/2012
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

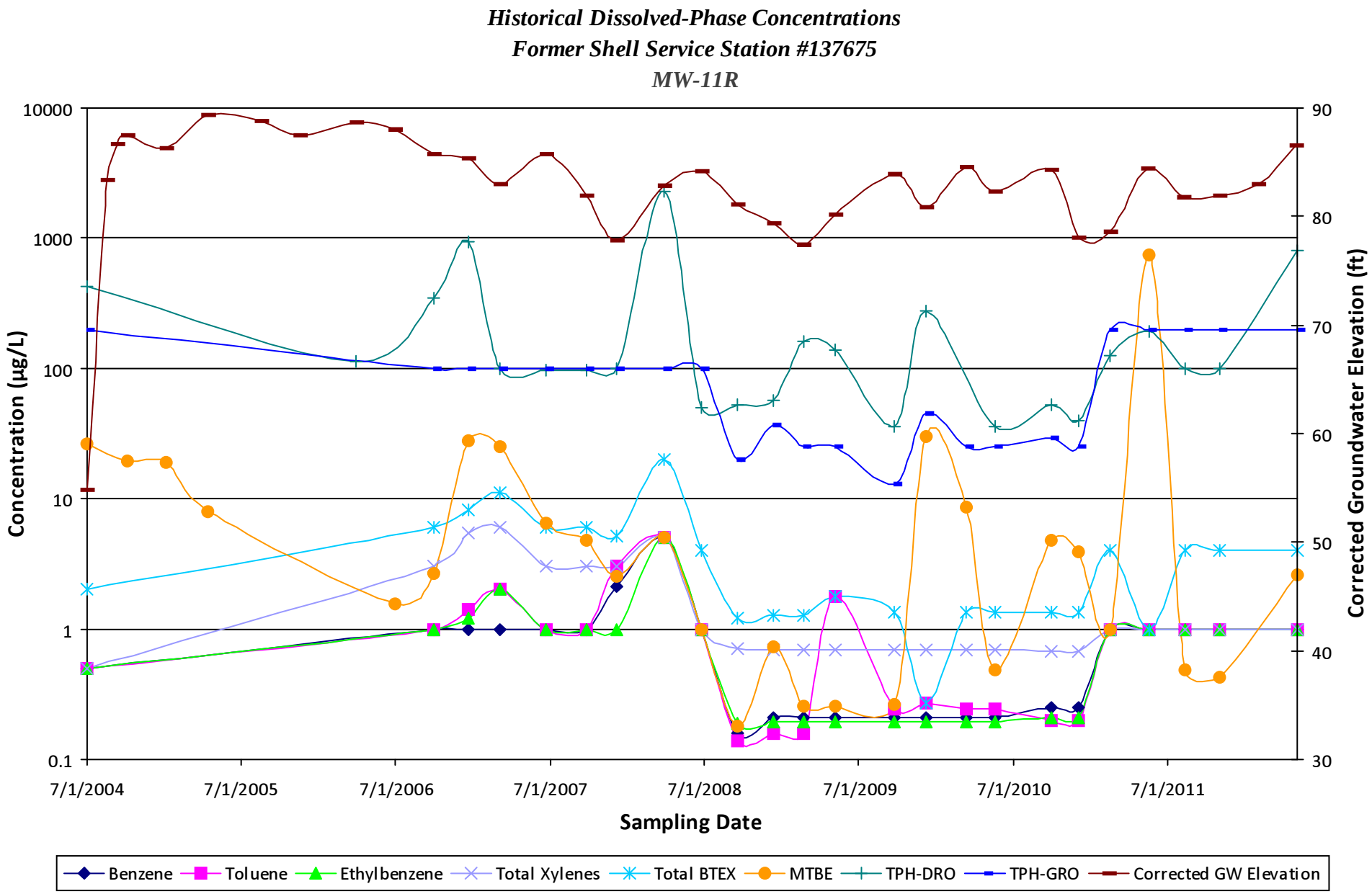

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
MW-08D
Concentration (µg/L)
10000
1000
100
10
1
0.1
Corrected Groundwater Elevation (ft)
90
80
70
60
50
40
30
4/5/2004
4/5/2005
4/5/2006
4/5/2007
4/5/2008
4/5/2009
4/5/2010
4/5/2011
4/5/2012
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

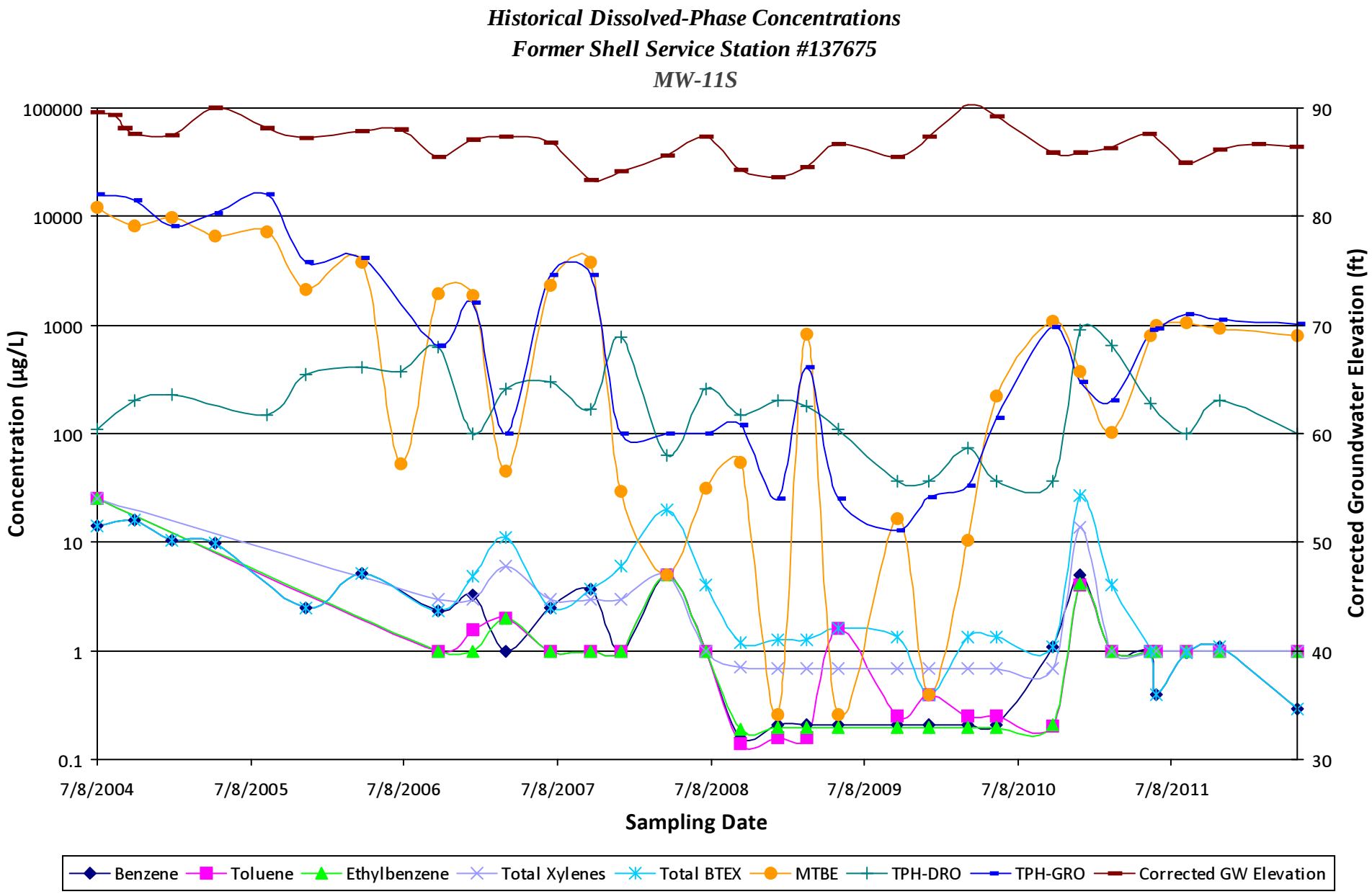

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
MW-08S
Concentration (µg/L)
1000
100
10
1
0.1
Corrected Groundwater Elevation (ft)
90
80
70
60
50
40
30
4/5/2004
4/5/2005
4/5/2006
4/5/2007
4/5/2008
4/5/2009
4/5/2010
4/5/2011
4/5/2012
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

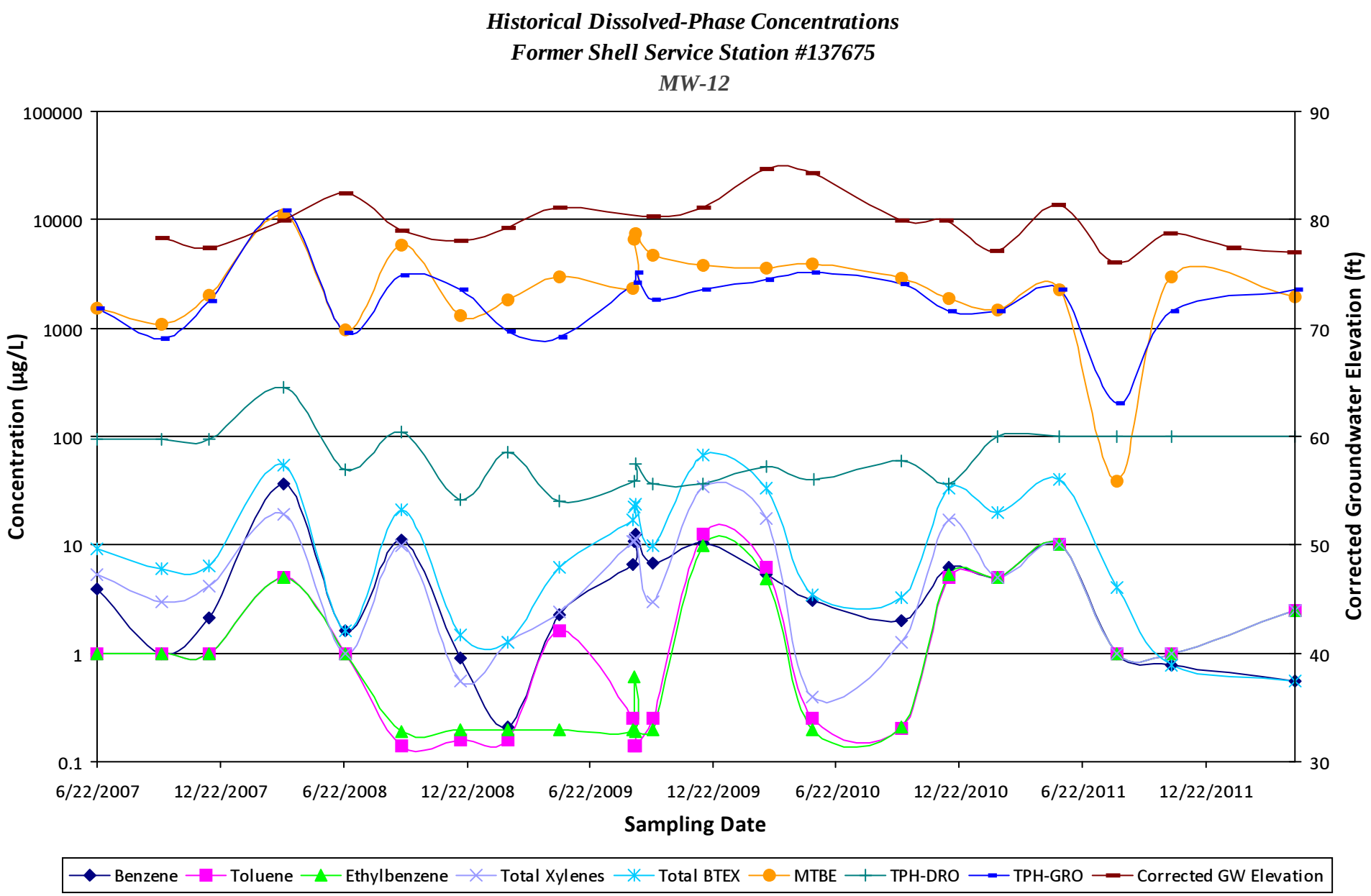

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
MW-09D
Concentration (µg/L)
1000
100
10
1
0.1
Corrected Groundwater Elevation (ft)
90
80
70
60
50
40
30
4/5/2004
4/5/2005
4/5/2006
4/5/2007
4/5/2008
4/5/2009
4/5/2010
4/5/2011
4/5/2012
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

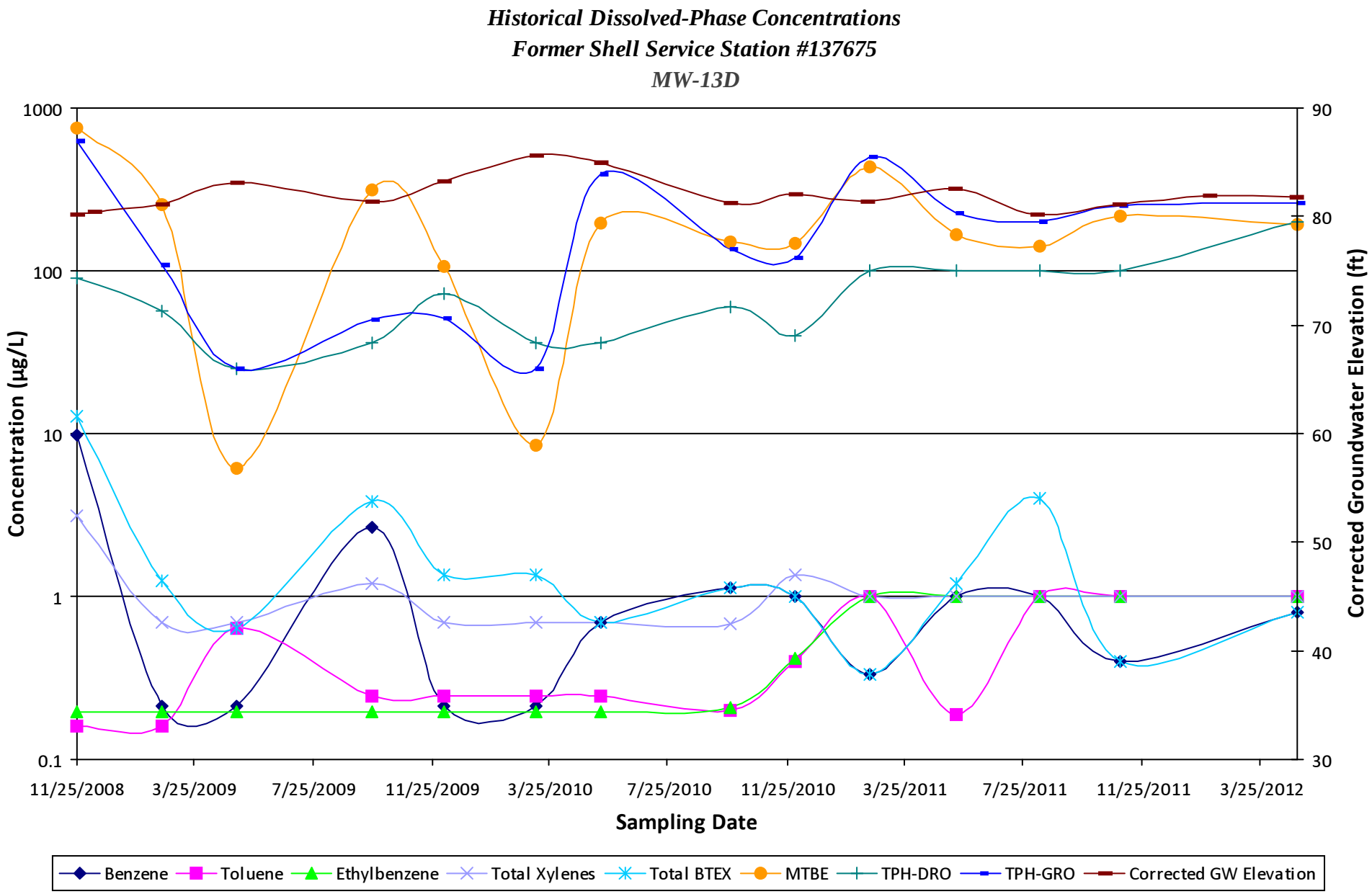

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
MW-09S
Concentration (µg/L)
1000
100
10
1
0.1
Corrected Groundwater Elevation (ft)
90
80
70
60
50
40
30
4/5/2004
4/5/2005
4/5/2006
4/5/2007
4/5/2008
4/5/2009
4/5/2010
4/5/2011
4/5/2012
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

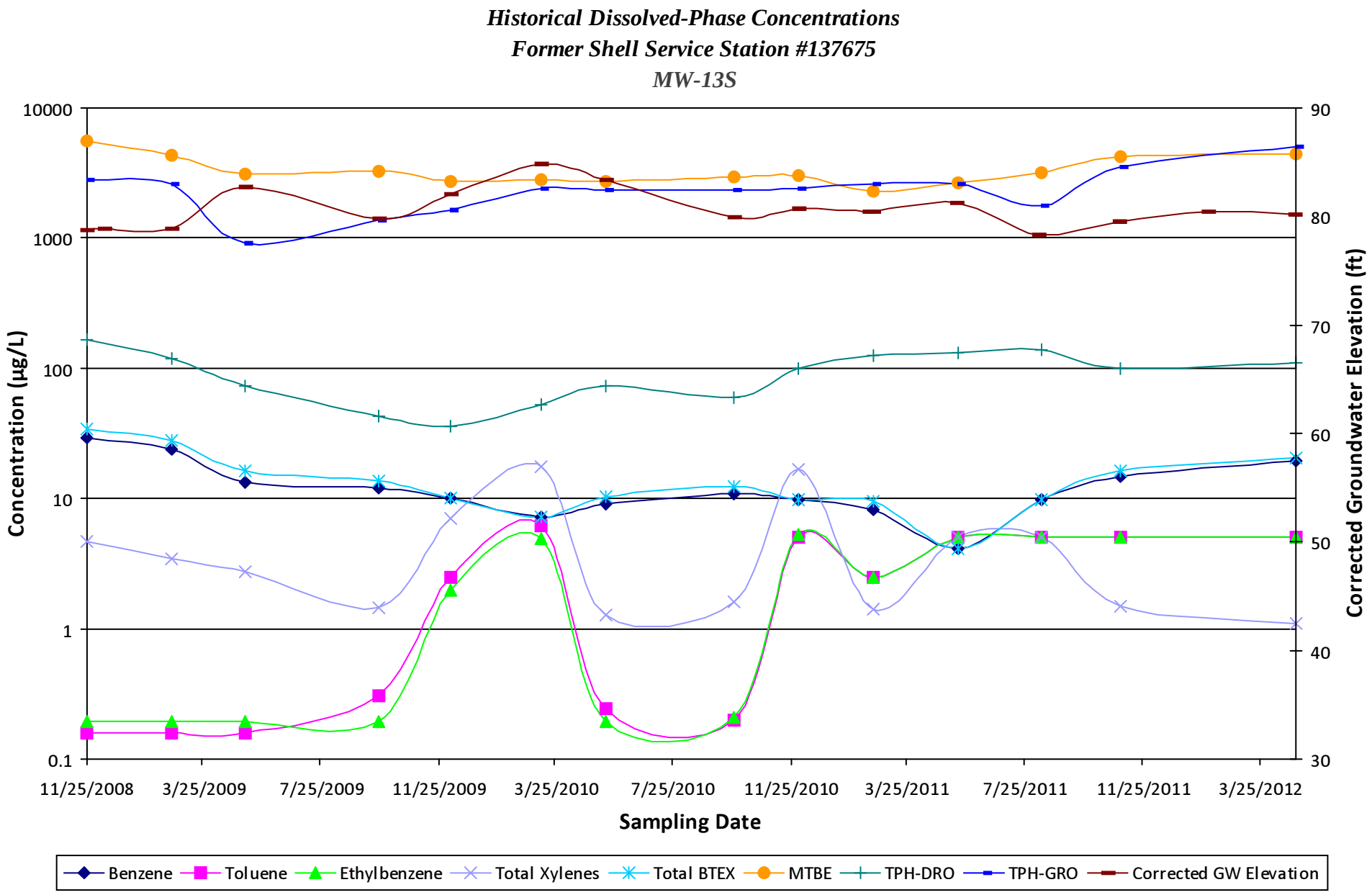

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
MW-11D
Concentration (µg/L)
10000
1000
100
10
1
0.1
Corrected Groundwater Elevation (ft)
90
80
70
60
50
40
30
7/8/2004
7/8/2005
7/8/2006
7/8/2007
7/8/2008
7/8/2009
7/8/2010
7/8/2011
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

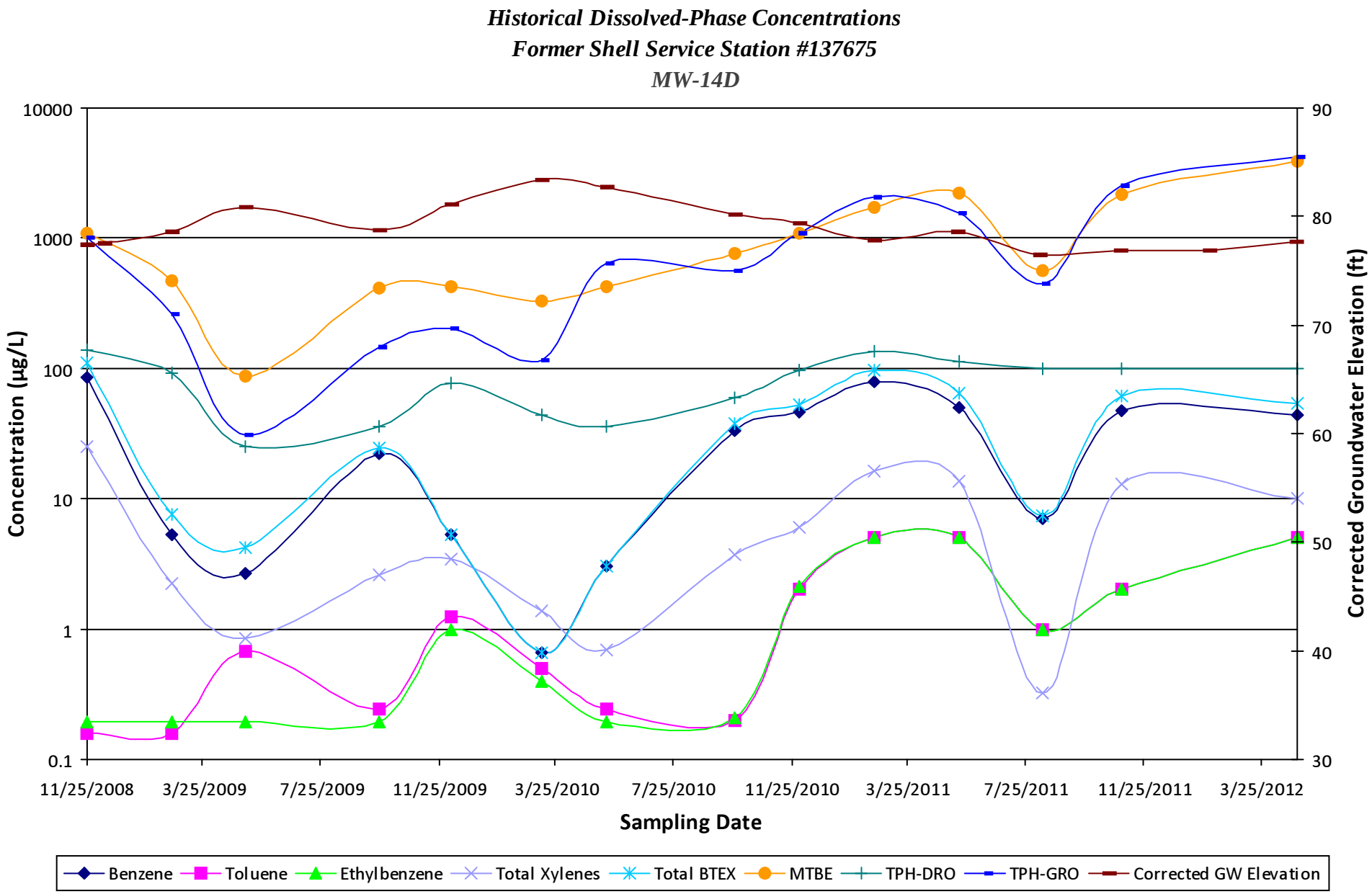

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
MW-11R
Concentration (µg/L)
10000
1000
100
10
1
0.1
Corrected Groundwater Elevation (ft)
90
80
70
60
50
40
30
7/1/2004
7/1/2005
7/1/2006
7/1/2007
7/1/2008
7/1/2009
7/1/2010
7/1/2011
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

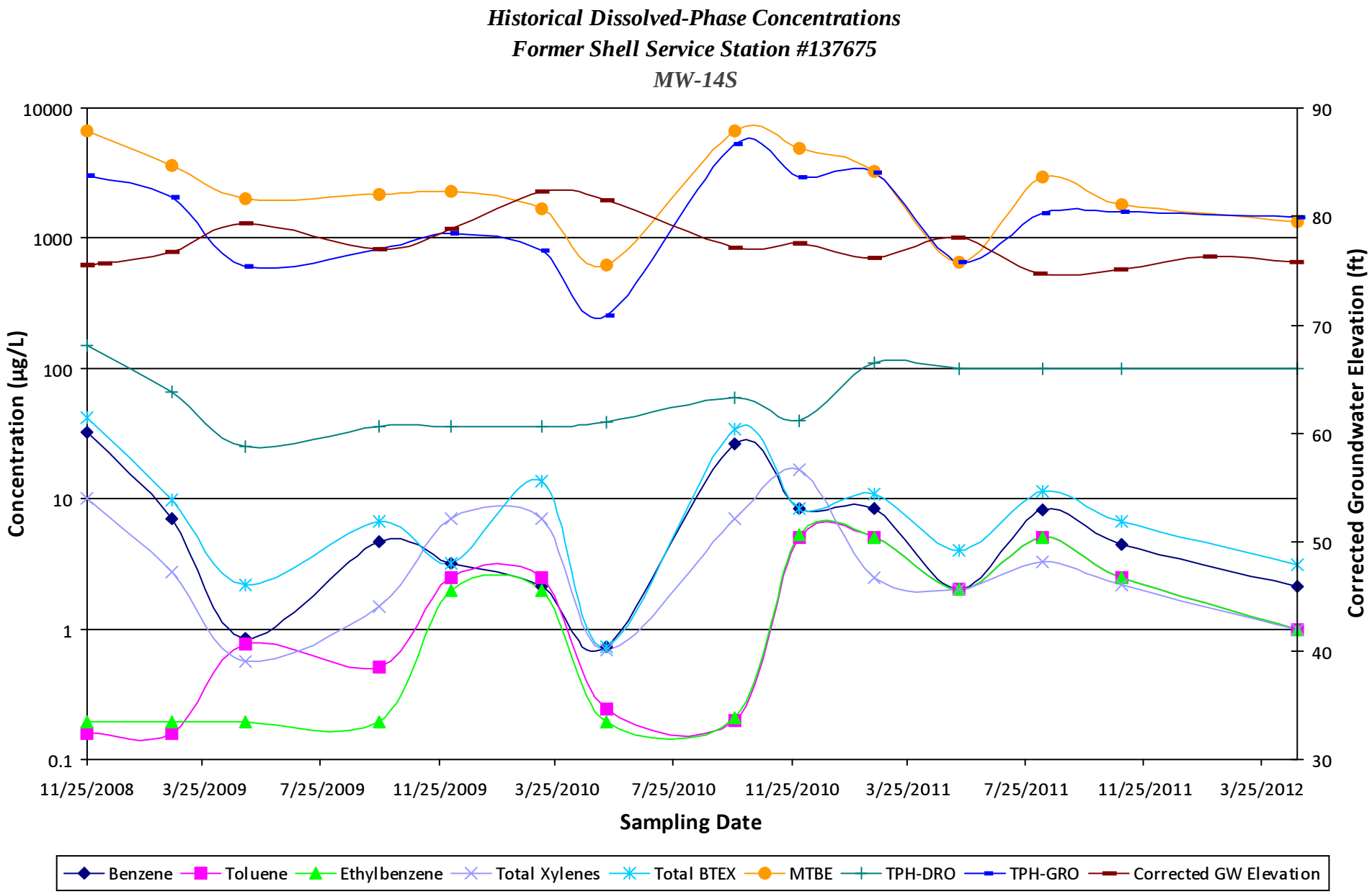

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
MW-11S
Concentration (µg/L)
100000
10000
1000
100
10
1
0.1
Corrected Groundwater Elevation (ft)
90
80
70
60
50
40
30
7/8/2004
7/8/2005
7/8/2006
7/8/2007
7/8/2008
7/8/2009
7/8/2010
7/8/2011
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

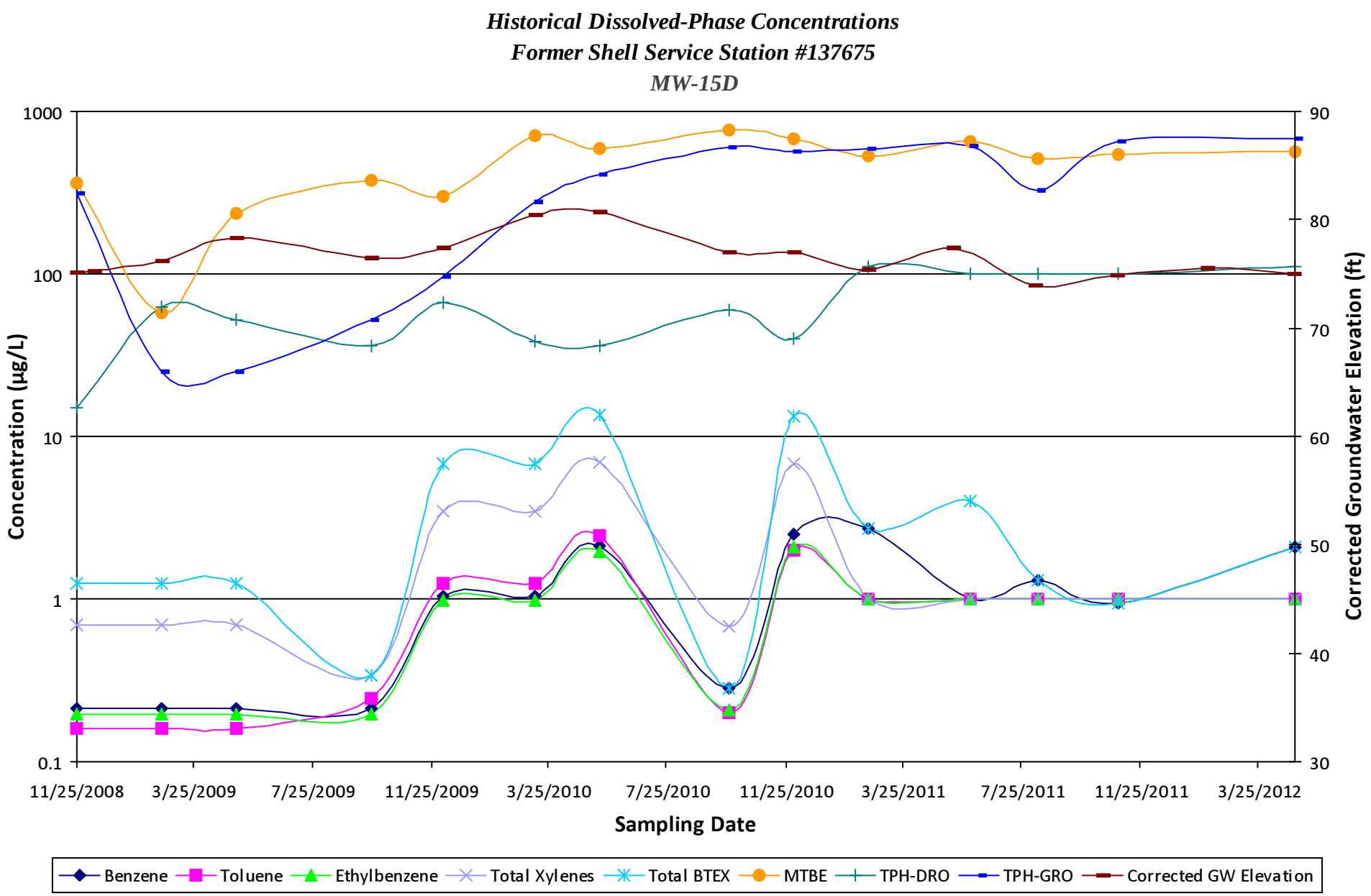

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
MW-12
Concentration (µg/L)
Corrected Groundwater Elevation (ft)
Sampling Date
100000
10000
1000
100
10
1
0.1
90
80
70
60
50
40
30
6/22/2007
12/22/2007
6/22/2008
12/22/2008
6/22/2009
12/22/2009
6/22/2010
12/22/2010
6/22/2011
12/22/2011
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

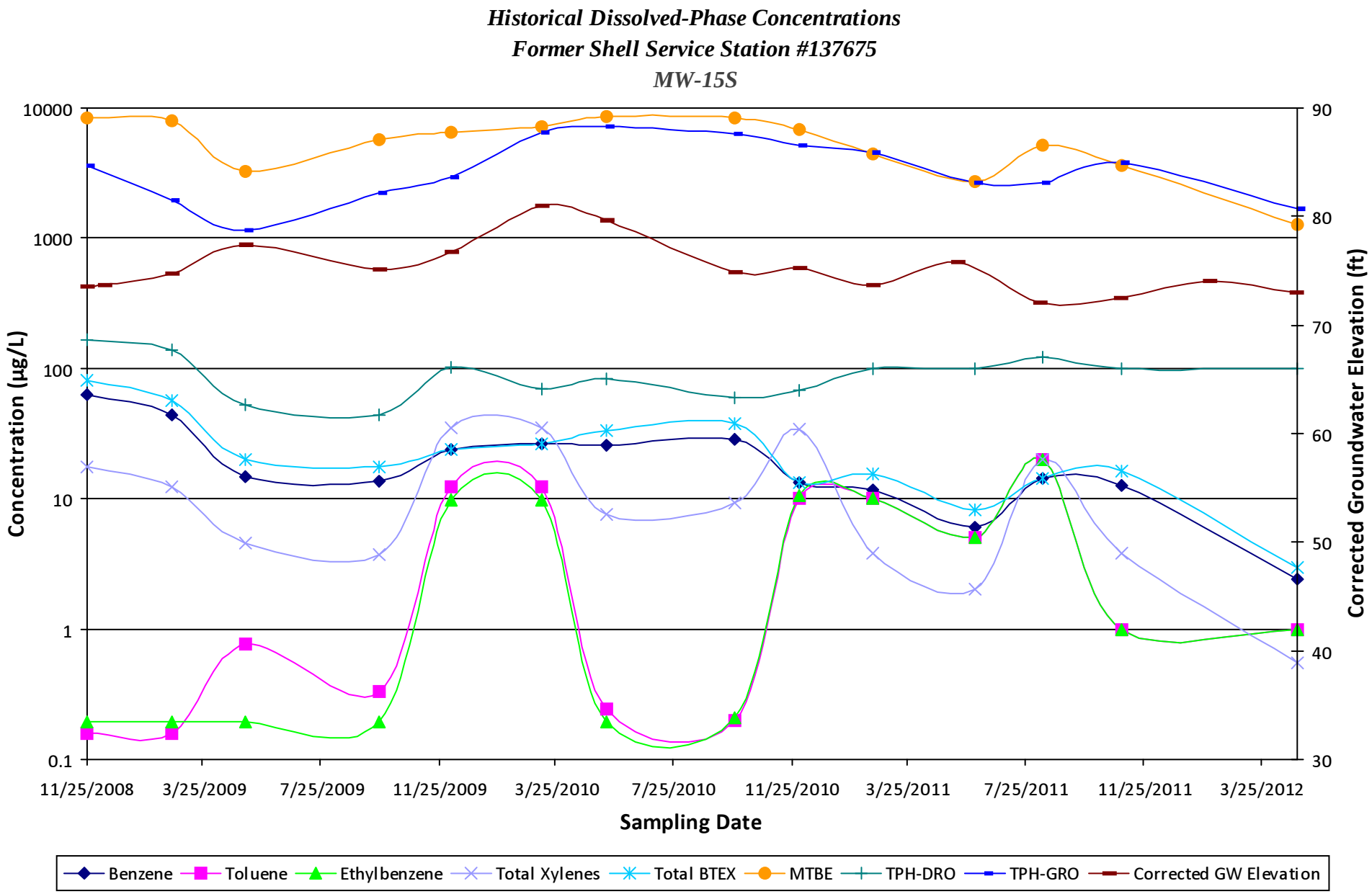

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
MW-13D
Concentration (µg/L)
1000
100
10
1
0.1
Corrected Groundwater Elevation (ft)
90
80
70
60
50
40
30
11/25/2008
3/25/2009
7/25/2009
11/25/2009
3/25/2010
7/25/2010
11/25/2010
3/25/2011
7/25/2011
11/25/2011
3/25/2012
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

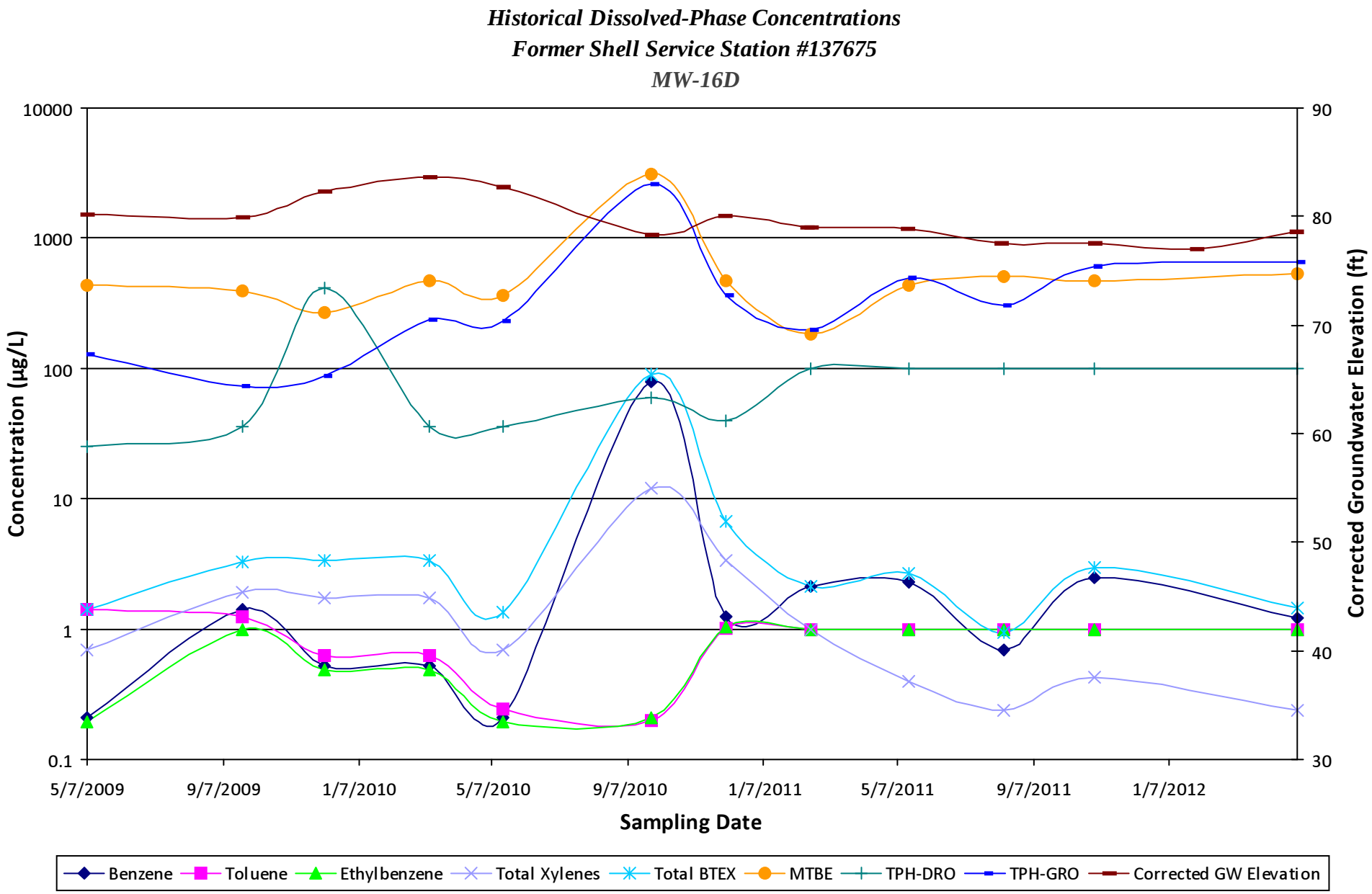

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
MW-13S
Concentration (µg/L)
10000
1000
100
10
1
0.1
Corrected Groundwater Elevation (ft)
90
80
70
60
50
40
30
11/25/2008
3/25/2009
7/25/2009
11/25/2009
3/25/2010
7/25/2010
11/25/2010
3/25/2011
7/25/2011
11/25/2011
3/25/2012
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

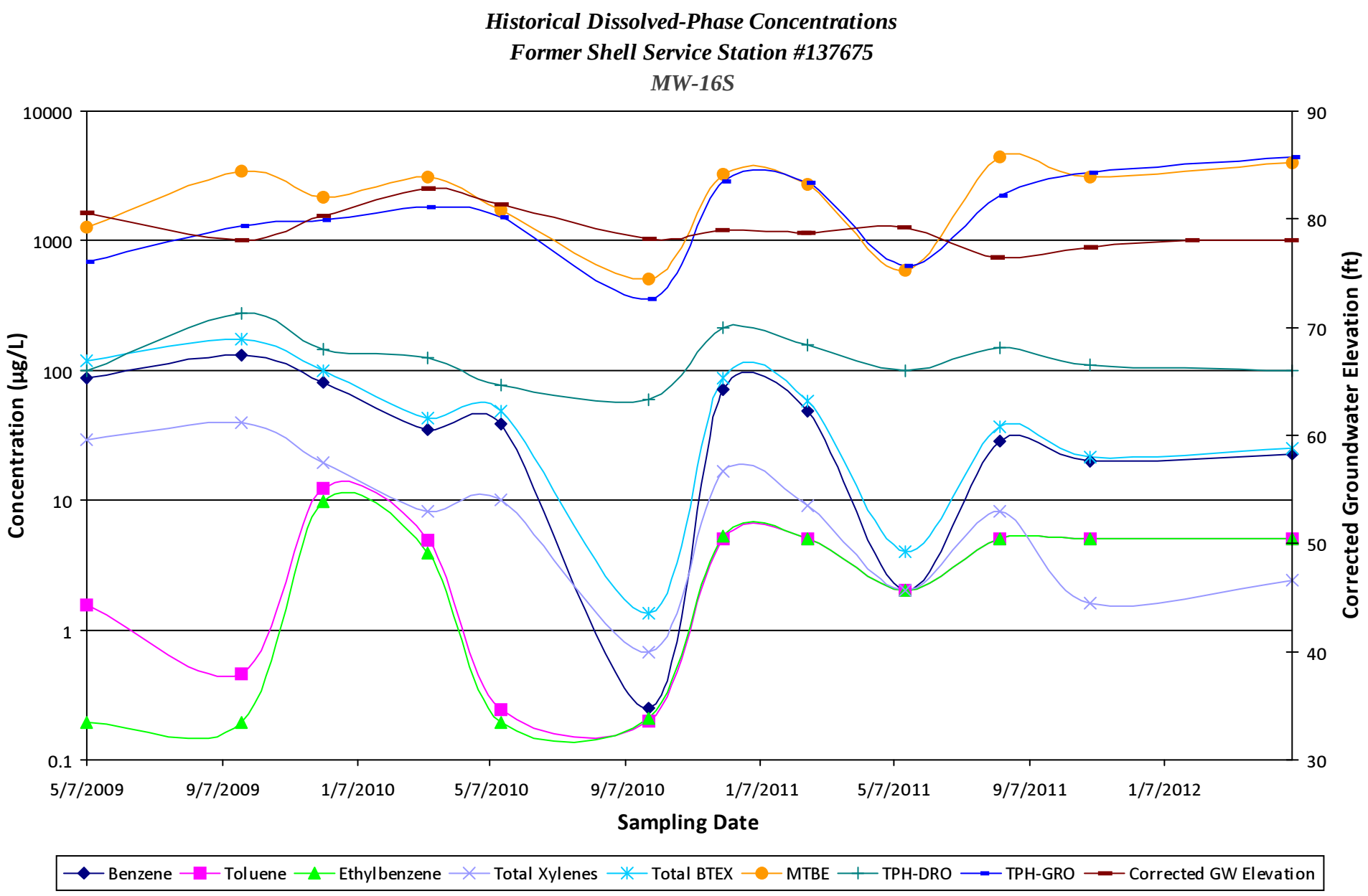

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
MW-14D
Concentration (µg/L)
10000
1000
100
10
1
0.1
Corrected Groundwater Elevation (ft)
90
80
70
60
50
40
30
11/25/2008
3/25/2009
7/25/2009
11/25/2009
3/25/2010
7/25/2010
11/25/2010
3/25/2011
7/25/2011
11/25/2011
3/25/2012
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

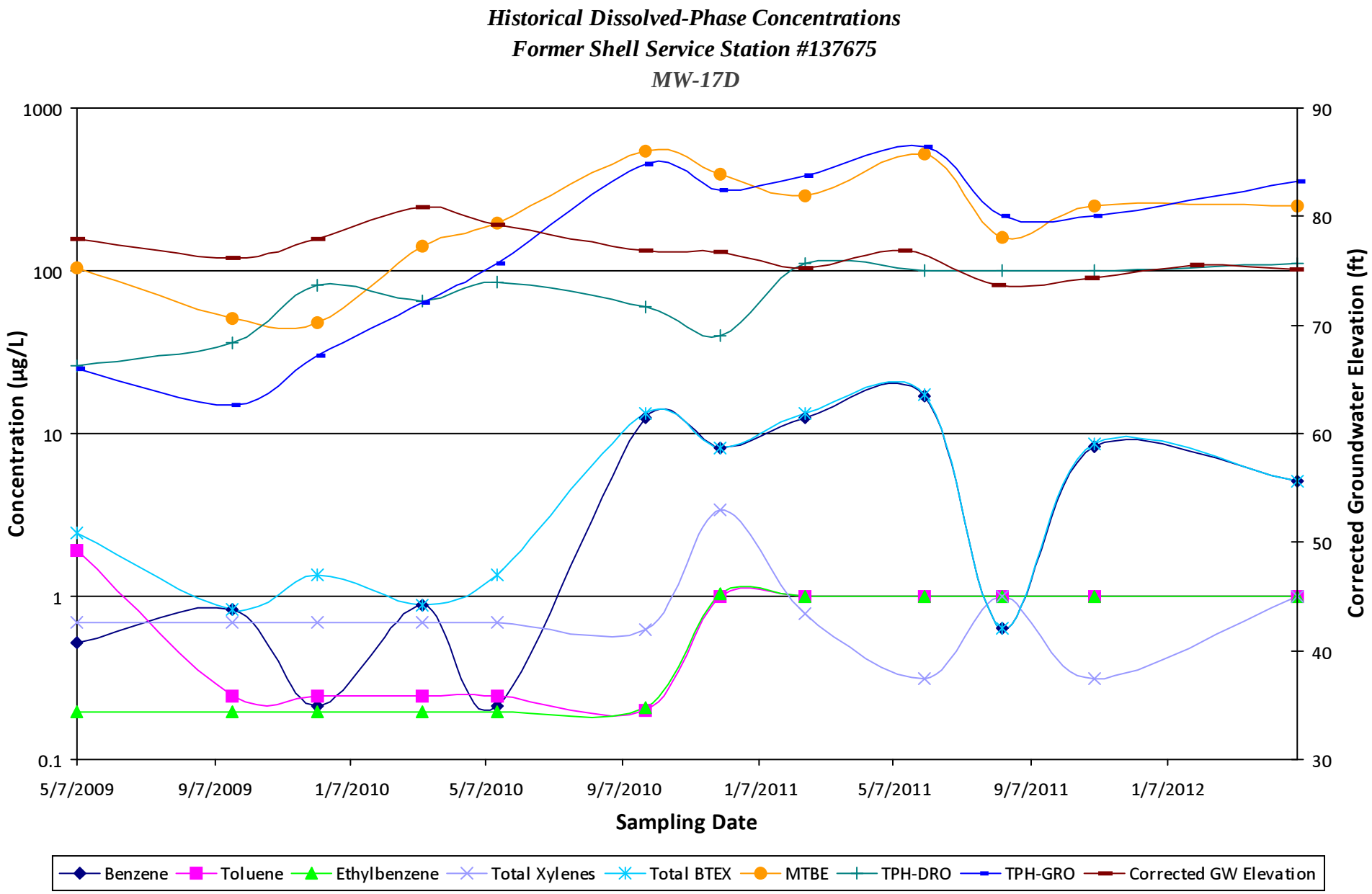

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
MW-14S
Concentration (µg/L)
10000
1000
100
10
1
0.1
Corrected Groundwater Elevation (ft)
90
80
70
60
50
40
30
11/25/2008
3/25/2009
7/25/2009
11/25/2009
3/25/2010
7/25/2010
11/25/2010
3/25/2011
7/25/2011
11/25/2011
3/25/2012
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation


Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
MW-15D
Concentration (µg/L)
1000
100
10
1
0.1
Corrected Groundwater Elevation (ft)
90
80
70
60
50
40
30
11/25/2008
3/25/2009
7/25/2009
11/25/2009
3/25/2010
7/25/2010
11/25/2010
3/25/2011
7/25/2011
11/25/2011
3/25/2012
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

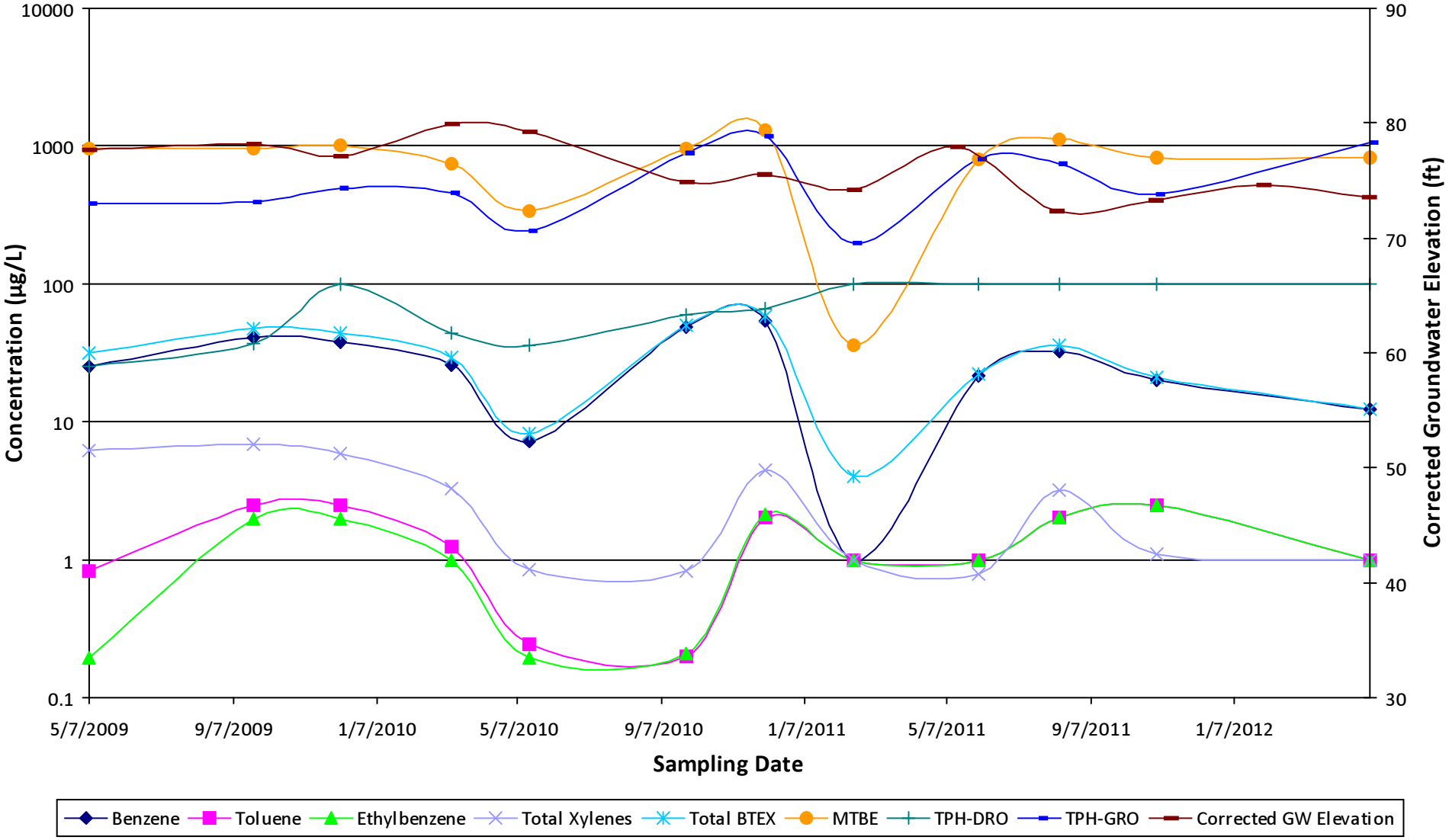

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
MW-15S
Concentration (µg/L)
10000
1000
100
10
1
0.1
Corrected Groundwater Elevation (ft)
90
80
70
60
50
40
30
11/25/2008
3/25/2009
7/25/2009
11/25/2009
3/25/2010
7/25/2010
11/25/2010
3/25/2011
7/25/2011
11/25/2011
3/25/2012
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

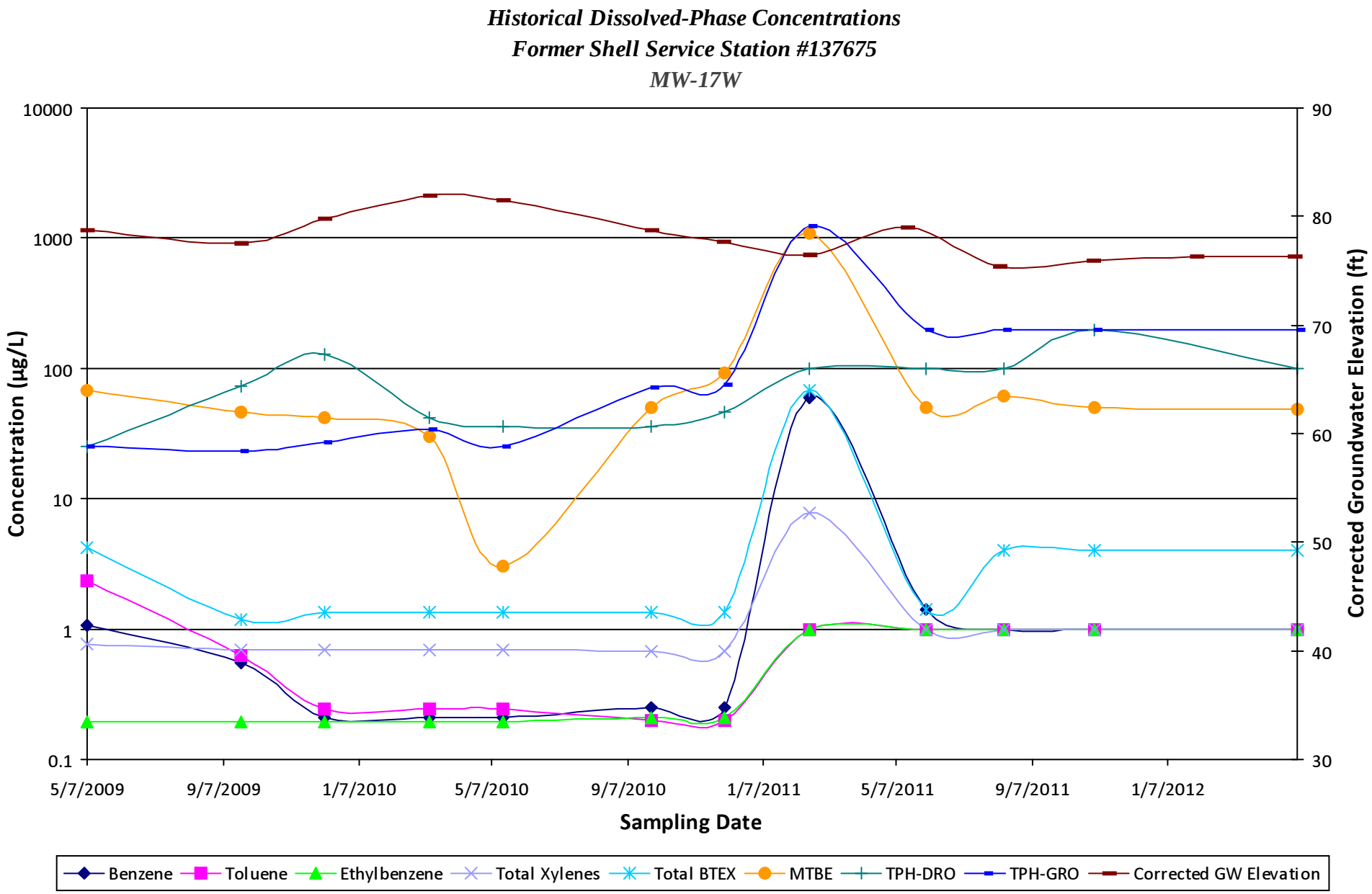

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
MW-16D
Concentration (µg/L)
10000
1000
100
10
1
0.1
Corrected Groundwater Elevation (ft)
90
80
70
60
50
40
30
5/7/2009
9/7/2009
1/7/2010
5/7/2010
9/7/2010
1/7/2011
5/7/2011
9/7/2011
1/7/2012
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

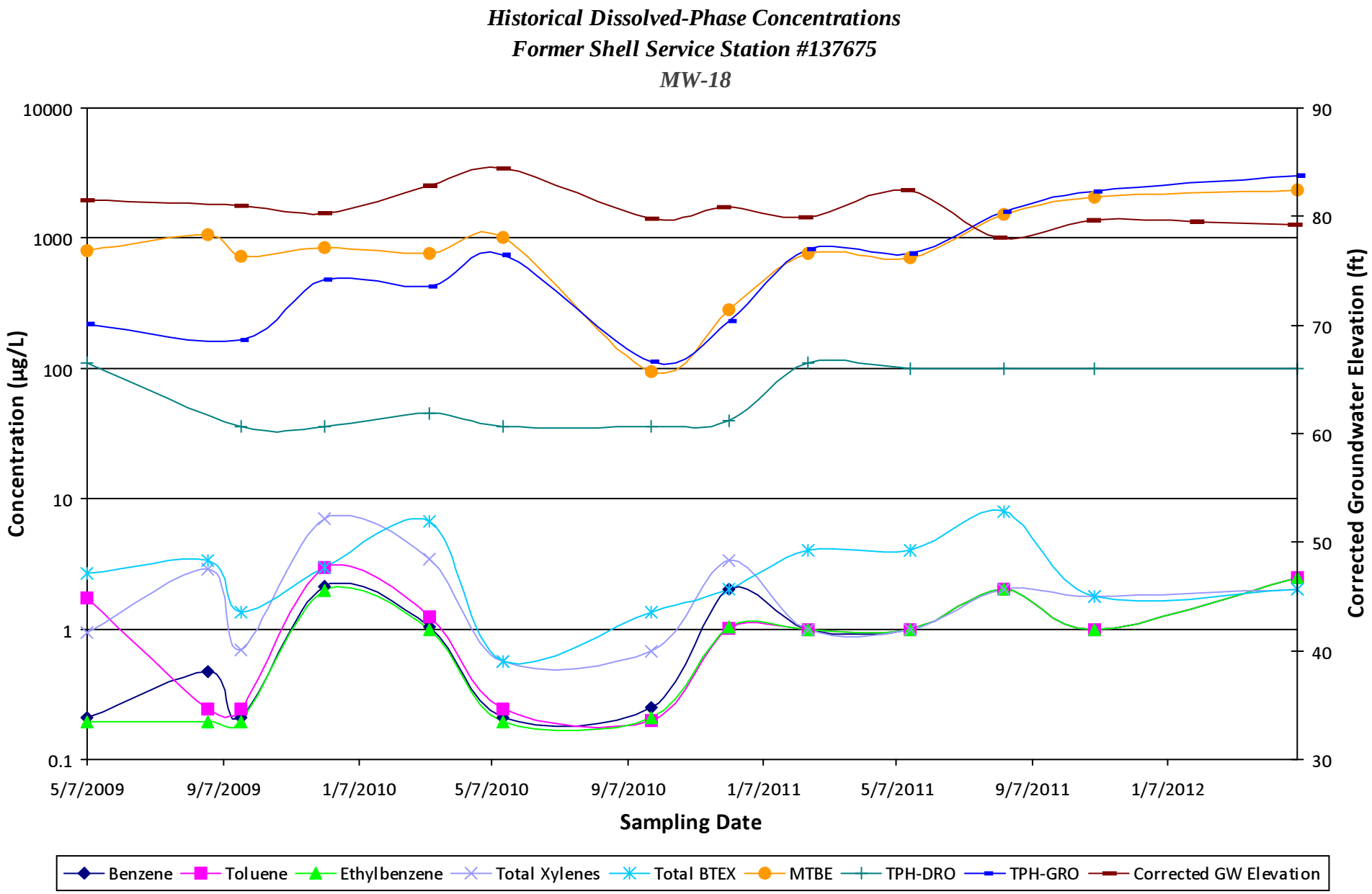

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
MW-16S
Concentration (µg/L)
10000
1000
100
10
1
0.1
Corrected Groundwater Elevation (ft)
90
80
70
60
50
40
30
5/7/2009
9/7/2009
1/7/2010
5/7/2010
9/7/2010
1/7/2011
5/7/2011
9/7/2011
1/7/2012
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

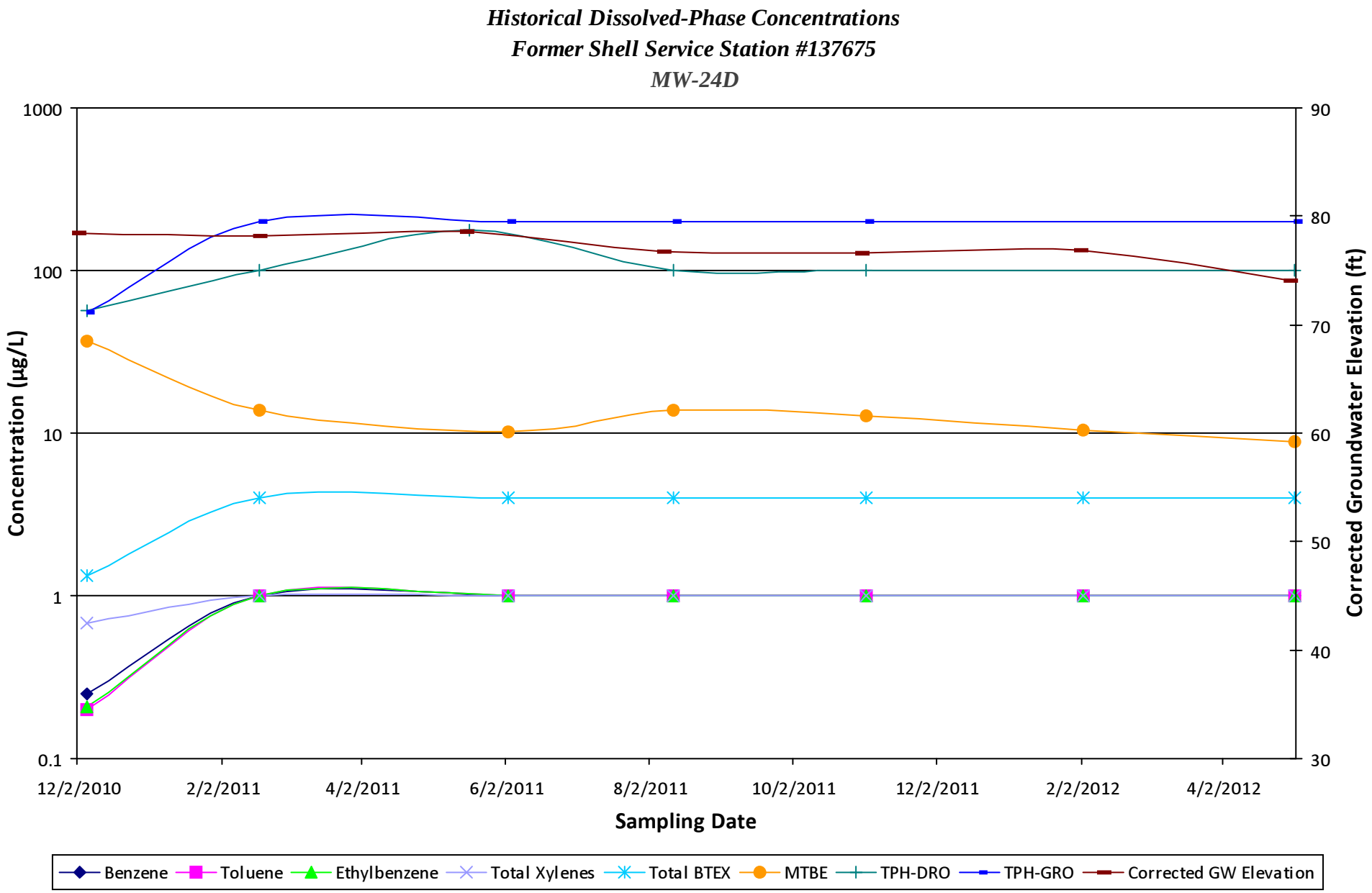

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
MW-17D
Concentration (µg/L)
1000
100
10
1
0.1
Corrected Groundwater Elevation (ft)
90
80
70
60
50
40
30
5/7/2009
9/7/2009
1/7/2010
5/7/2010
9/7/2010
1/7/2011
5/7/2011
9/7/2011
1/7/2012
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

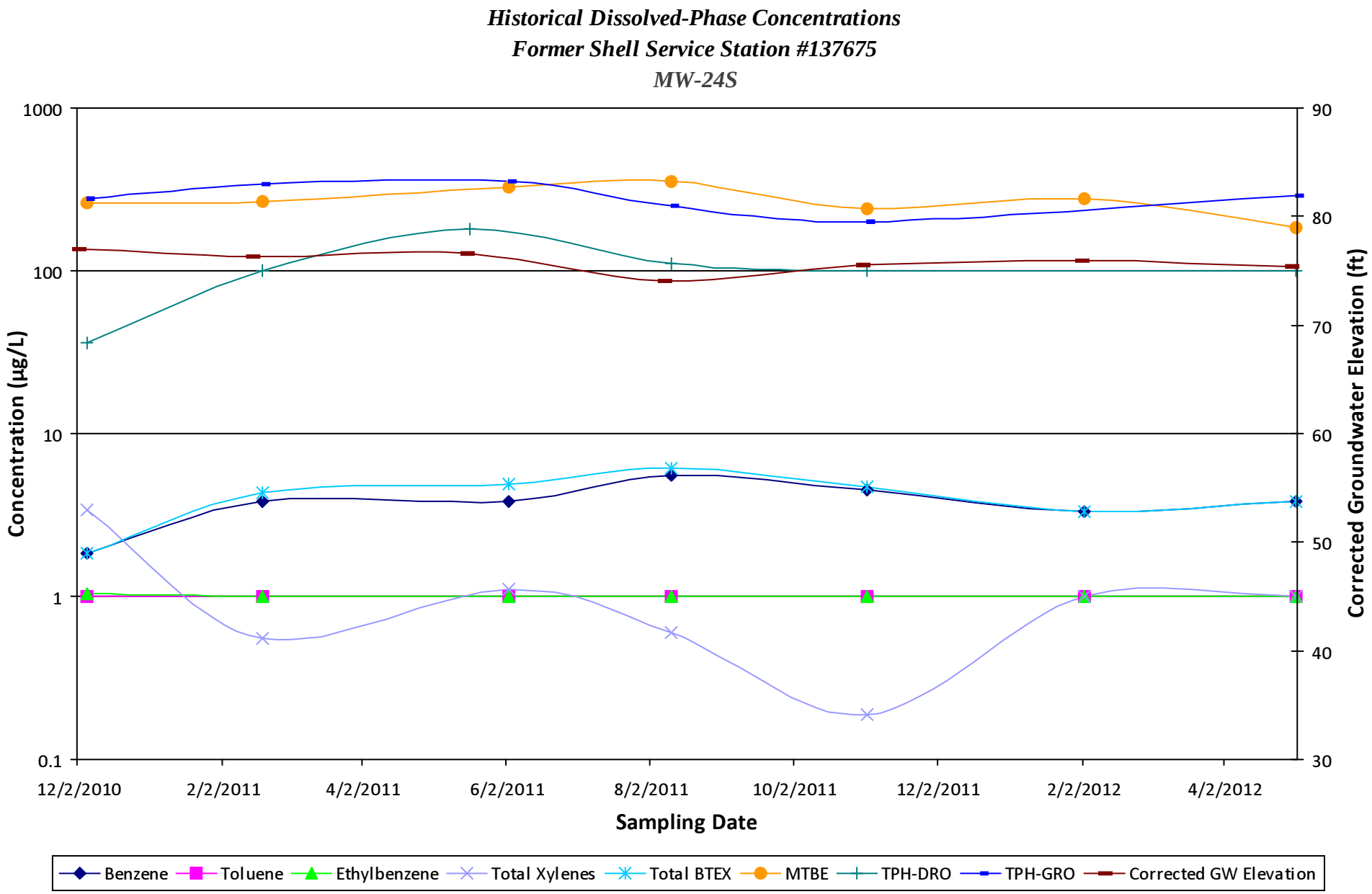
***Historical Dissolved-Phase Concentrations***
***Former Shell Service Station #137675***
***MW-17S***

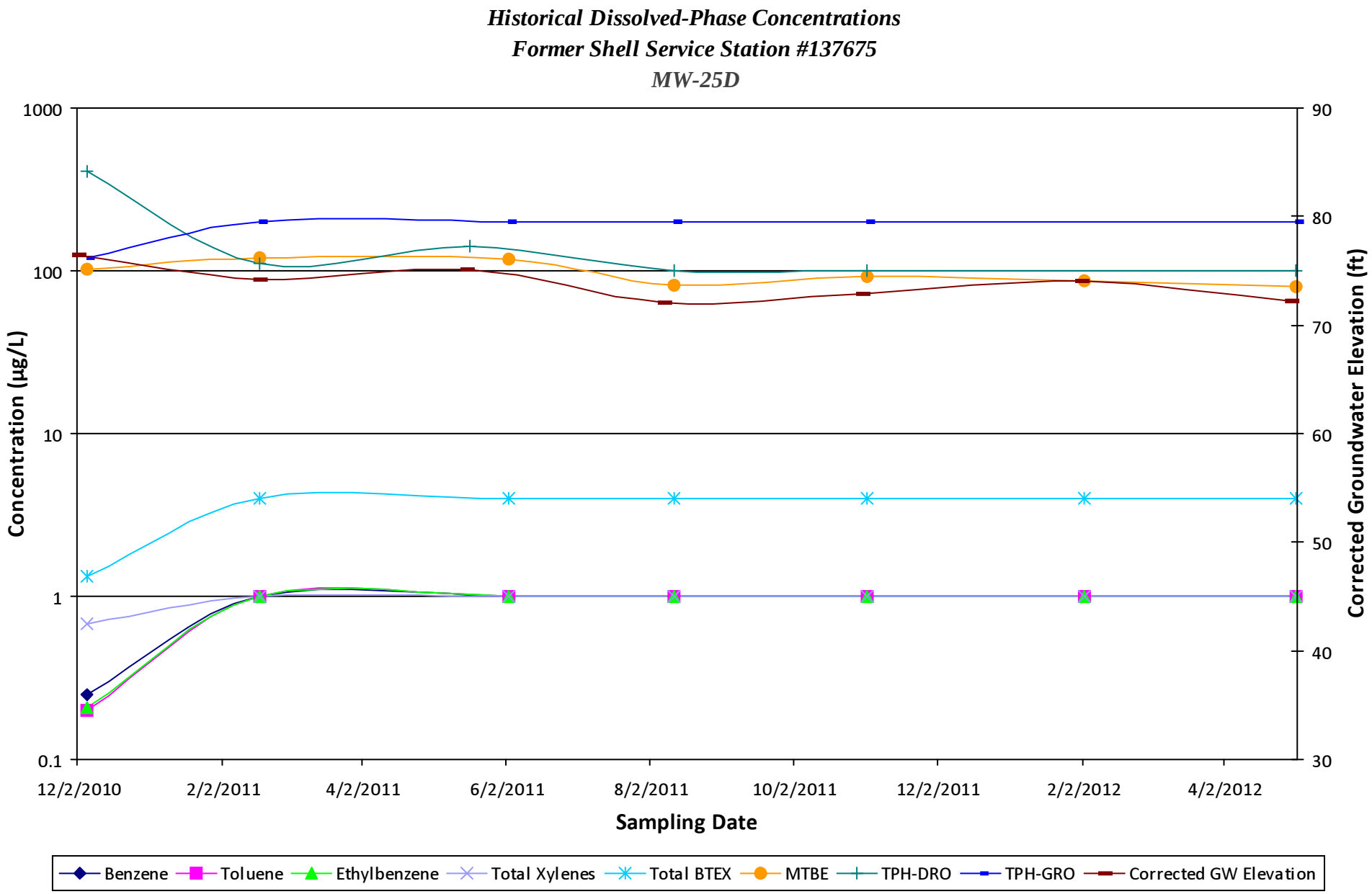


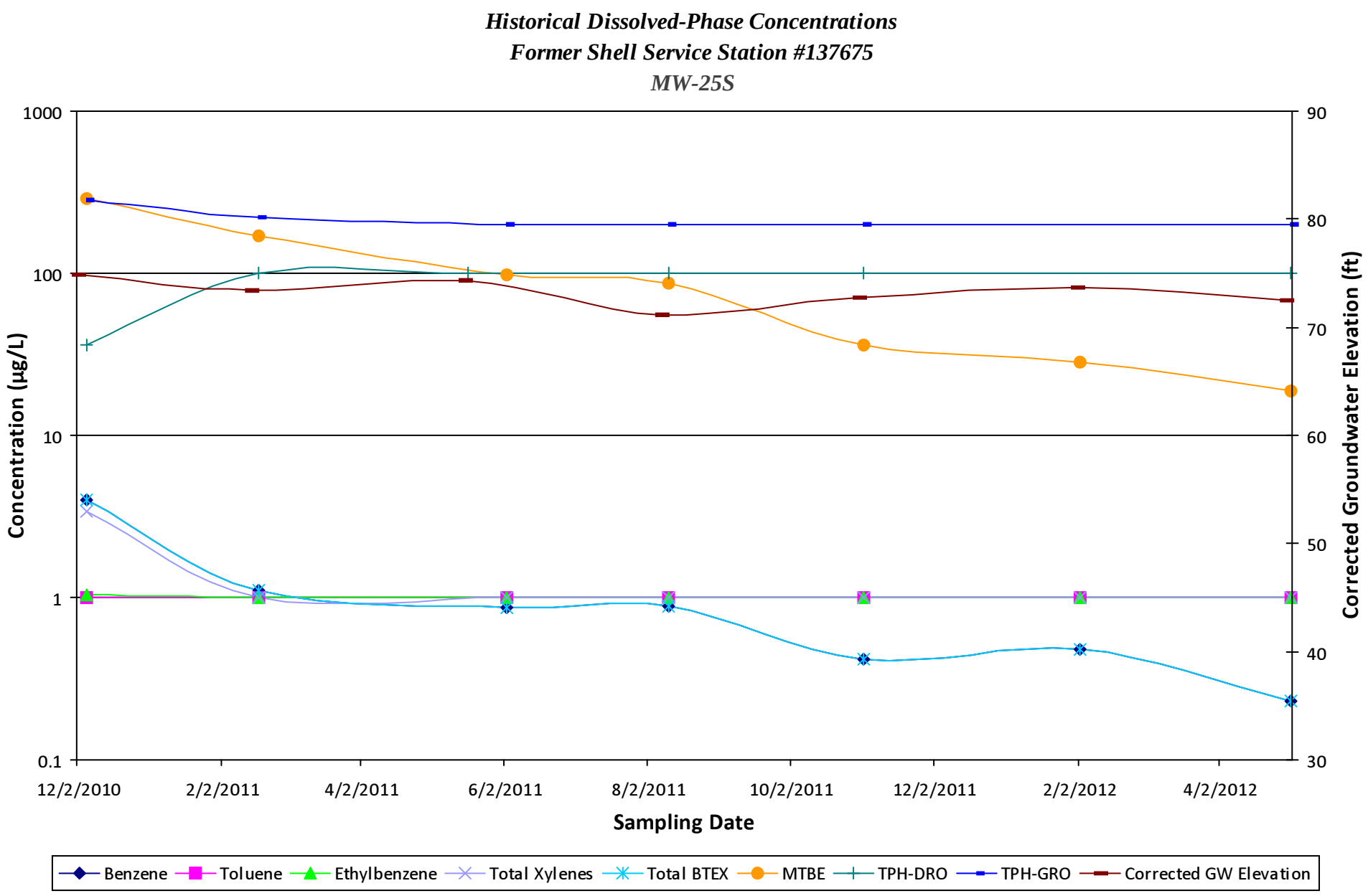

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
MW-17W
Concentration (µg/L)
10000
1000
100
10
1
0.1
Corrected Groundwater Elevation (ft)
90
80
70
60
50
40
30
5/7/2009
9/7/2009
1/7/2010
5/7/2010
9/7/2010
1/7/2011
5/7/2011
9/7/2011
1/7/2012
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

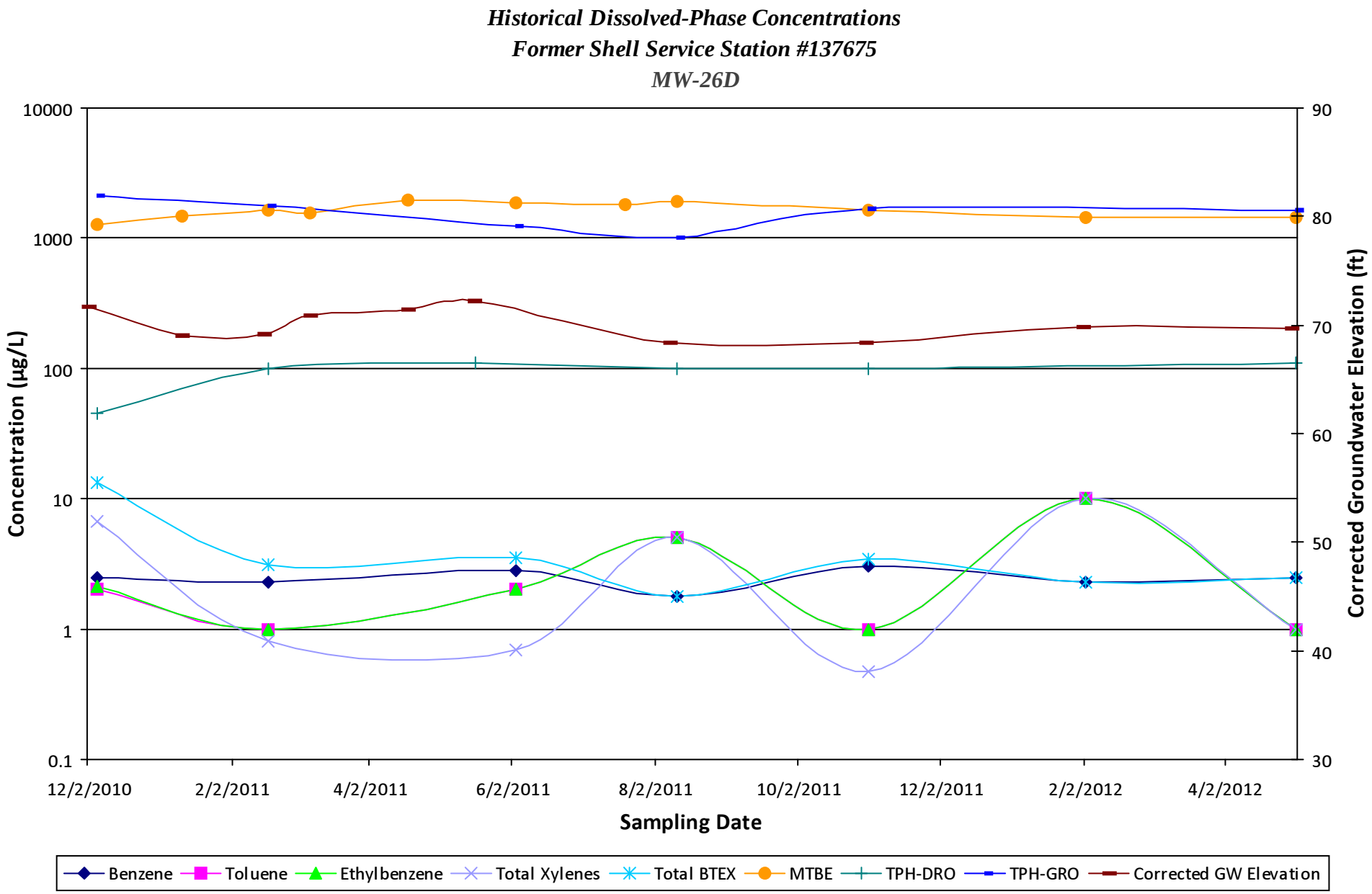

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
MW-18
Concentration (µg/L)
10000
1000
100
10
1
0.1
Corrected Groundwater Elevation (ft)
90
80
70
60
50
40
30
5/7/2009
9/7/2009
1/7/2010
5/7/2010
9/7/2010
1/7/2011
5/7/2011
9/7/2011
1/7/2012
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

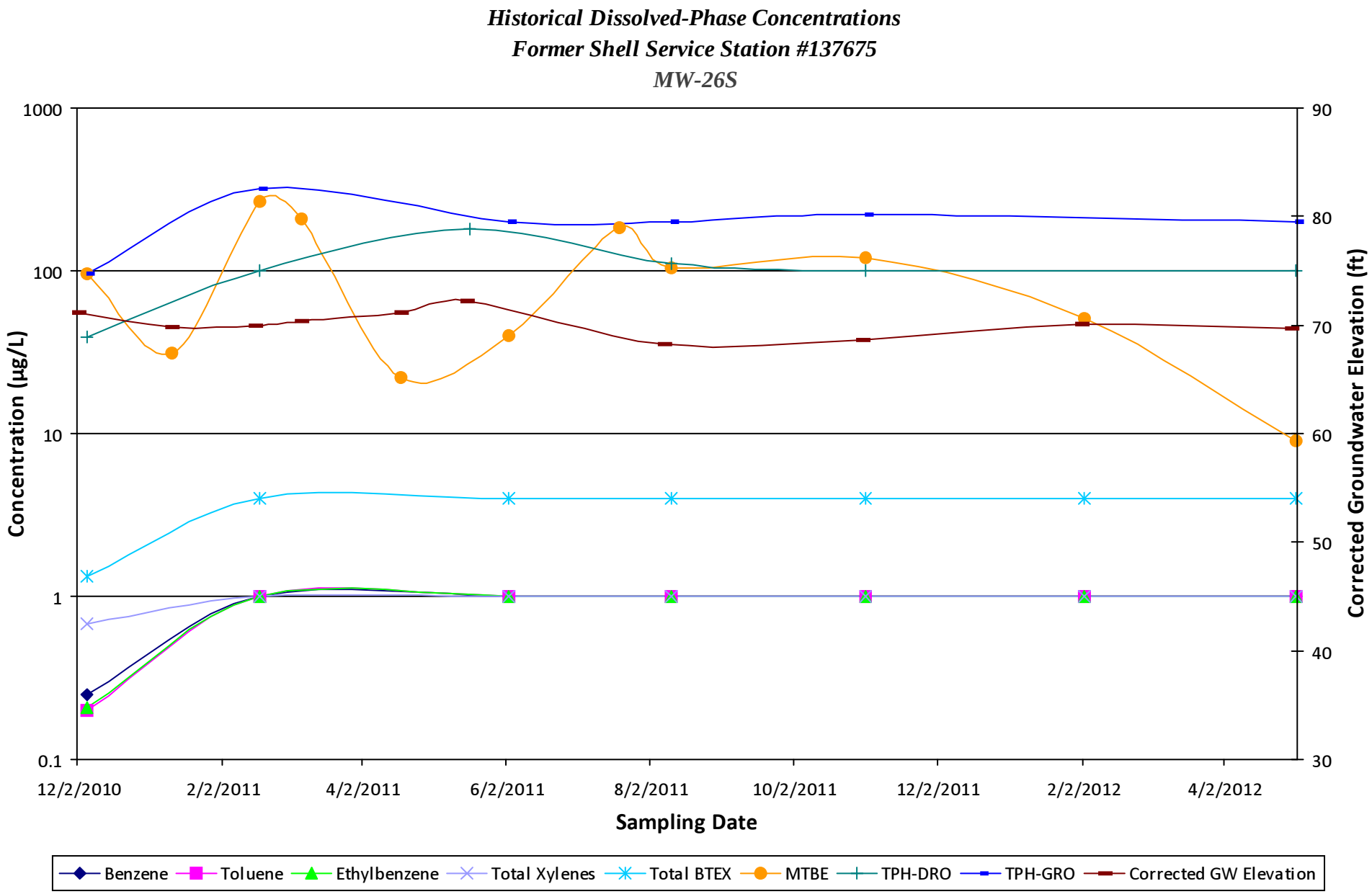

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
MW-24D
1000
100
10
1
0.1
Concentration (µg/L)
90
80
70
60
50
40
30
Corrected Groundwater Elevation (ft)
12/2/2010
2/2/2011
4/2/2011
6/2/2011
8/2/2011
10/2/2011
12/2/2011
2/2/2012
4/2/2012
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation


Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
MW-24S
1000
100
10
1
0.1
Concentration (µg/L)
90
80
70
60
50
40
30
Corrected Groundwater Elevation (ft)
12/2/2010
2/2/2011
4/2/2011
6/2/2011
8/2/2011
10/2/2011
12/2/2011
2/2/2012
4/2/2012
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

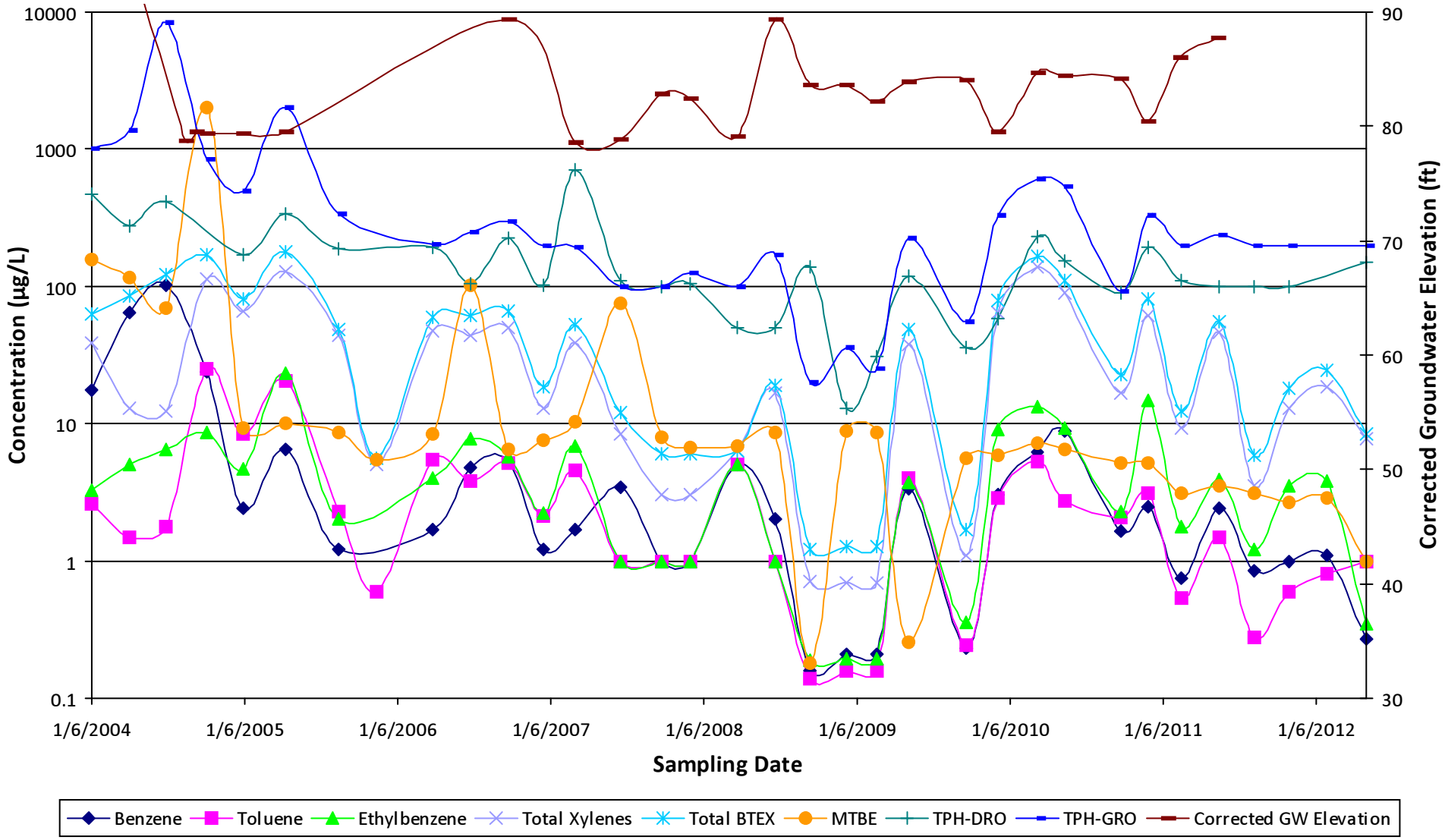

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
MW-25D
1000
100
10
1
0.1
Concentration (µg/L)
90
80
70
60
50
40
30
Corrected Groundwater Elevation (ft)
12/2/2010
2/2/2011
4/2/2011
6/2/2011
8/2/2011
10/2/2011
12/2/2011
2/2/2012
4/2/2012
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

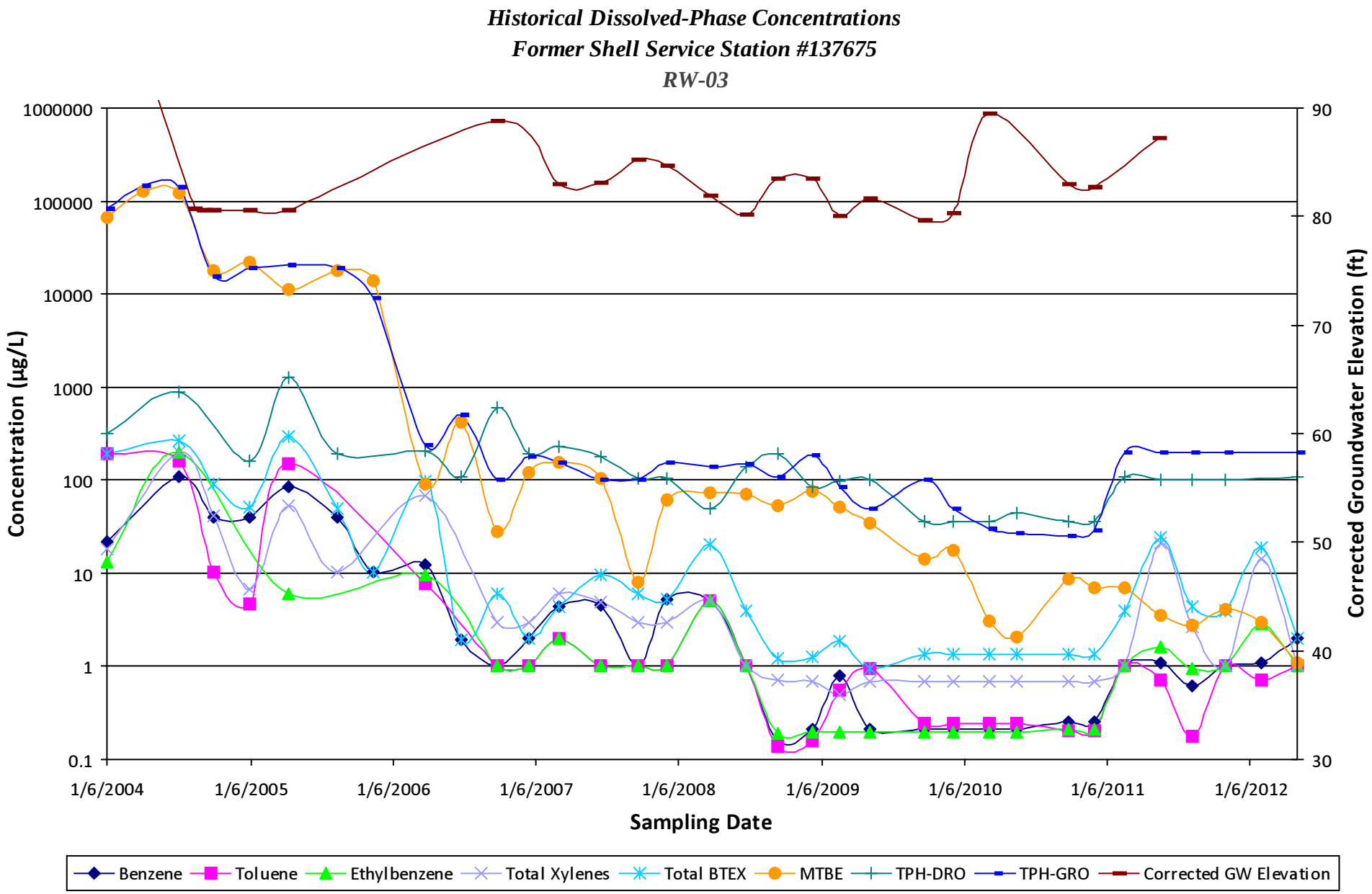

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
MW-25S
1000
100
10
1
0.1
Concentration (µg/L)
90
80
70
60
50
40
30
Corrected Groundwater Elevation (ft)
12/2/2010
2/2/2011
4/2/2011
6/2/2011
8/2/2011
10/2/2011
12/2/2011
2/2/2012
4/2/2012
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

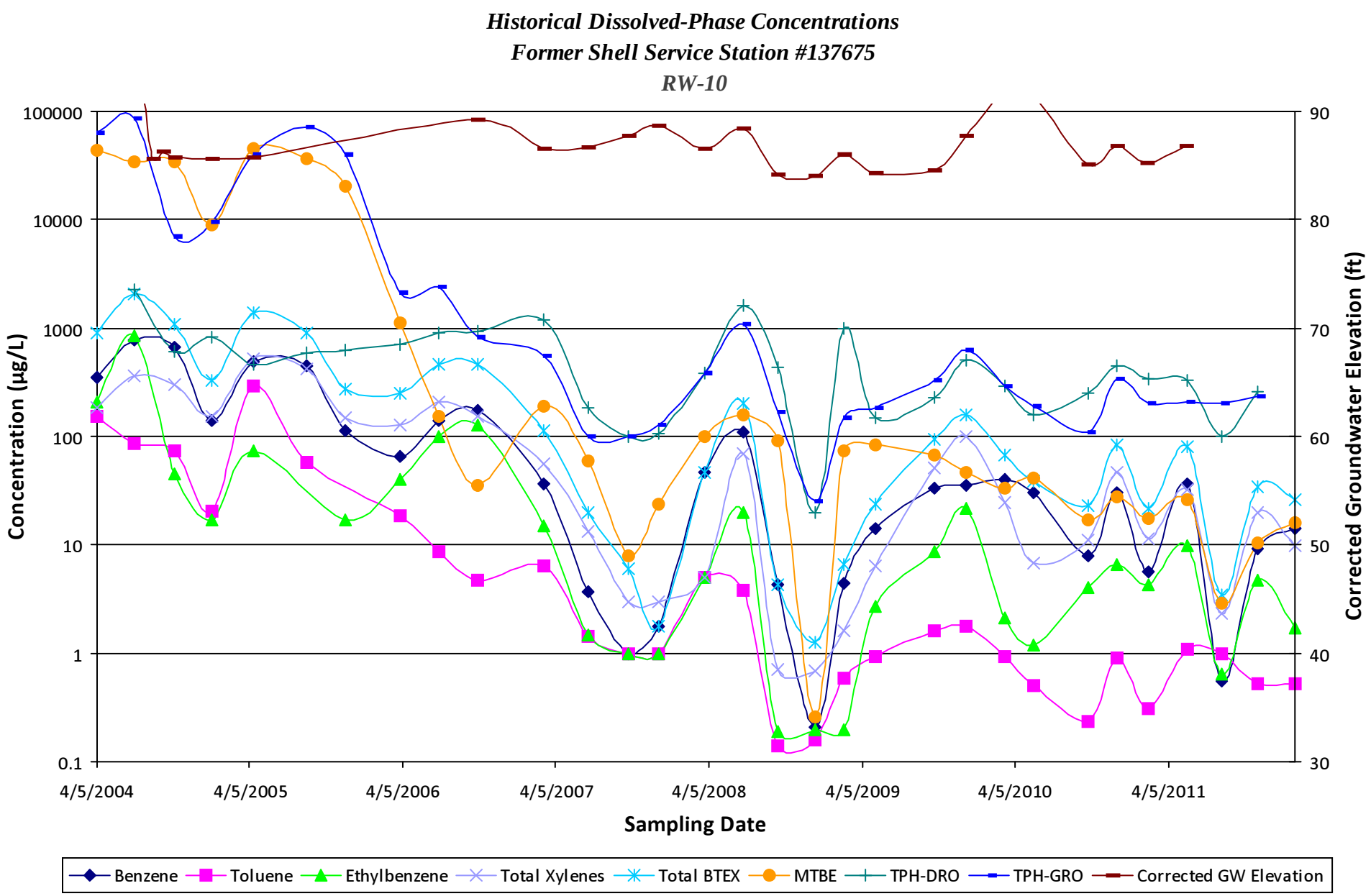

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
MW-26D
Concentration (µg/L)
10000
1000
100
10
1
0.1
Corrected Groundwater Elevation (ft)
90
80
70
60
50
40
30
12/2/2010
2/2/2011
4/2/2011
6/2/2011
8/2/2011
10/2/2011
12/2/2011
2/2/2012
4/2/2012
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

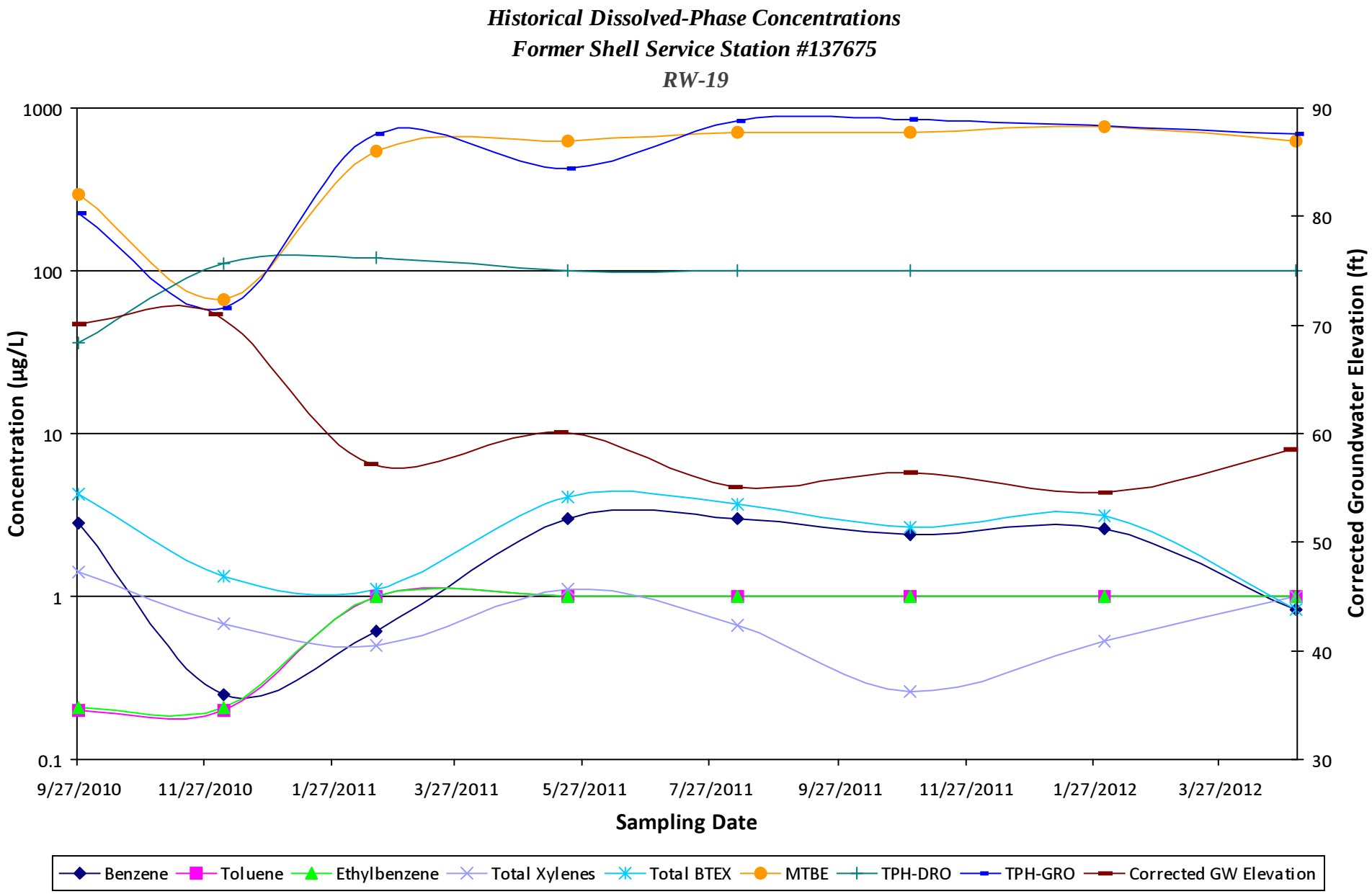

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
MW-26S
1000
100
10
1
0.1
Concentration (µg/L)
90
80
70
60
50
40
30
Corrected Groundwater Elevation (ft)
12/2/2010
2/2/2011
4/2/2011
6/2/2011
8/2/2011
10/2/2011
12/2/2011
2/2/2012
4/2/2012
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

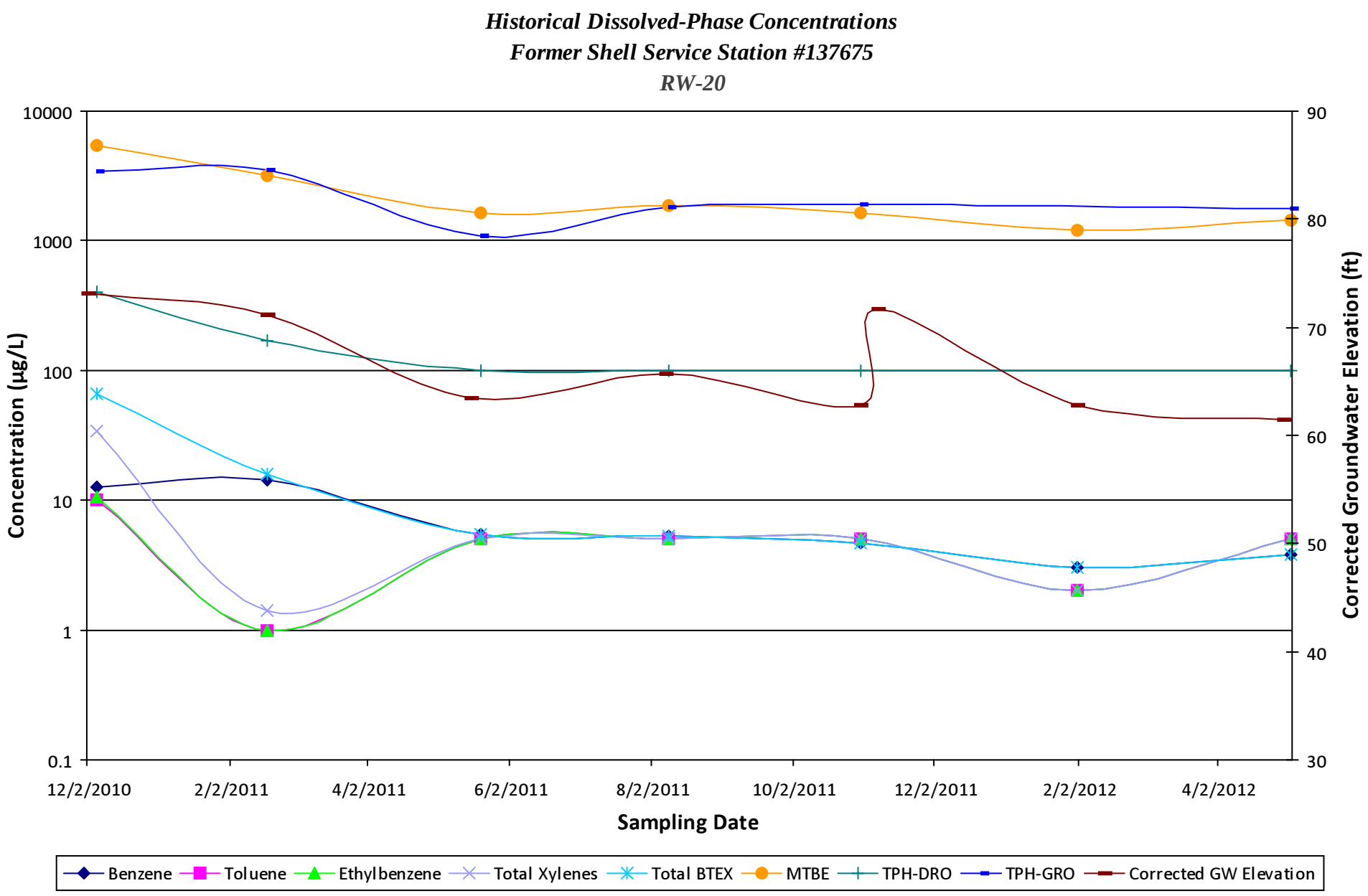
*Historical Dissolved-Phase Concentrations*
*Former Shell Service Station #137675*
*RW-01*

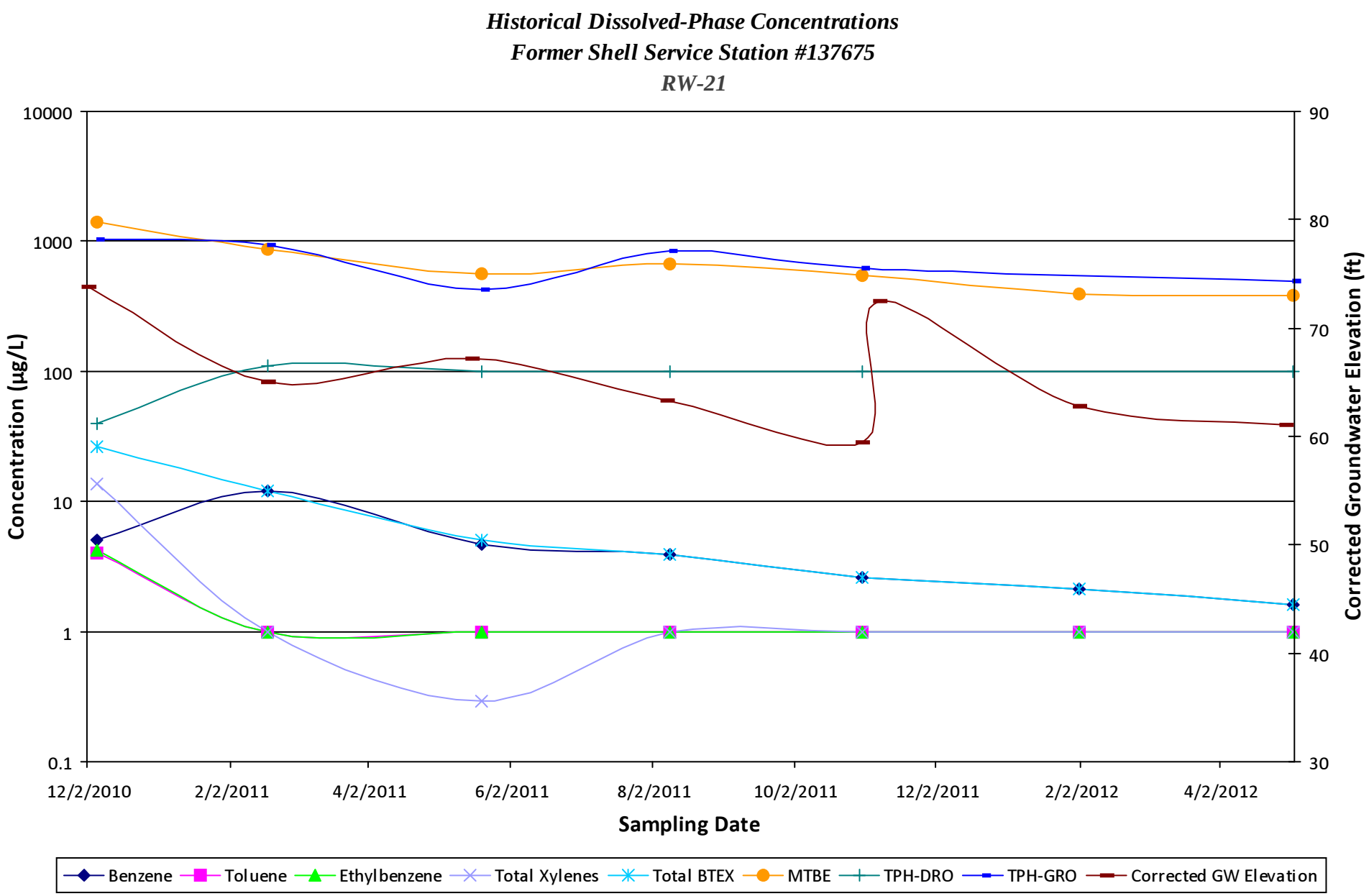


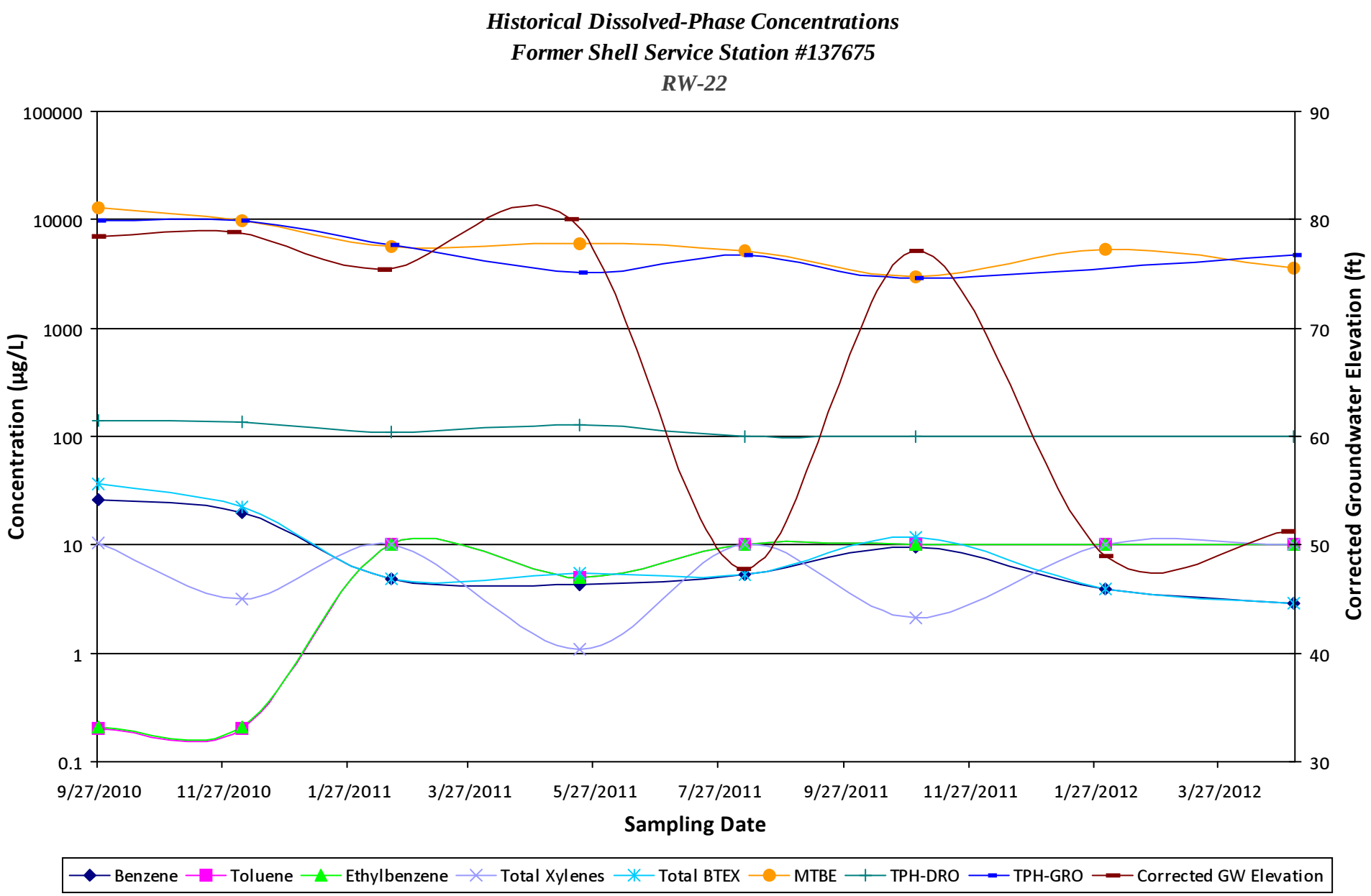

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
RW-03
Concentration (µg/L)
1000000
100000
10000
1000
100
10
1
0.1
Corrected Groundwater Elevation (ft)
90
80
70
60
50
40
30
1/6/2004
1/6/2005
1/6/2006
1/6/2007
1/6/2008
1/6/2009
1/6/2010
1/6/2011
1/6/2012
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

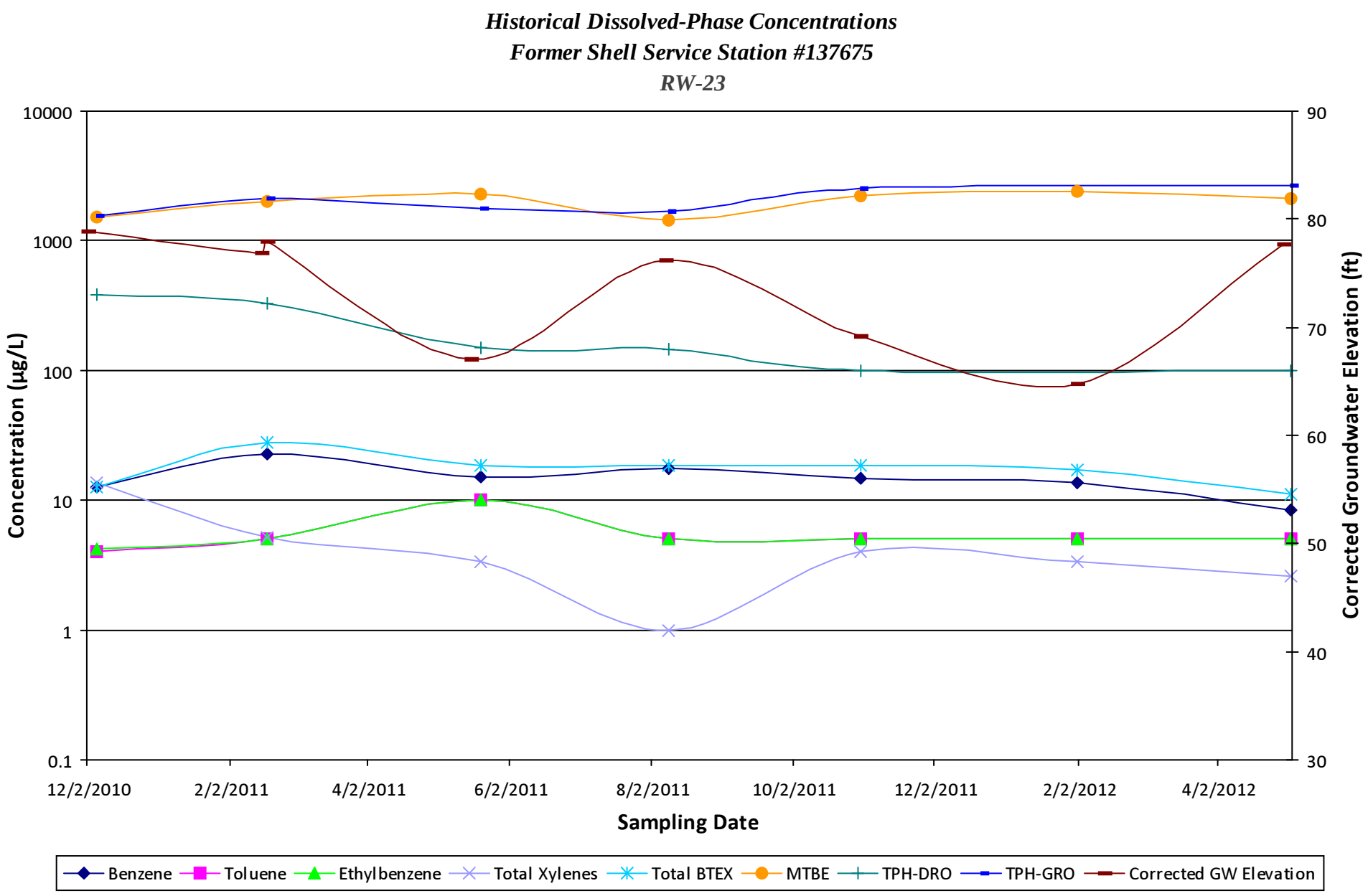

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
RW-10
Concentration (µg/L)
100000
10000
1000
100
10
1
0.1
Corrected Groundwater Elevation (ft)
90
80
70
60
50
40
30
4/5/2004
4/5/2005
4/5/2006
4/5/2007
4/5/2008
4/5/2009
4/5/2010
4/5/2011
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

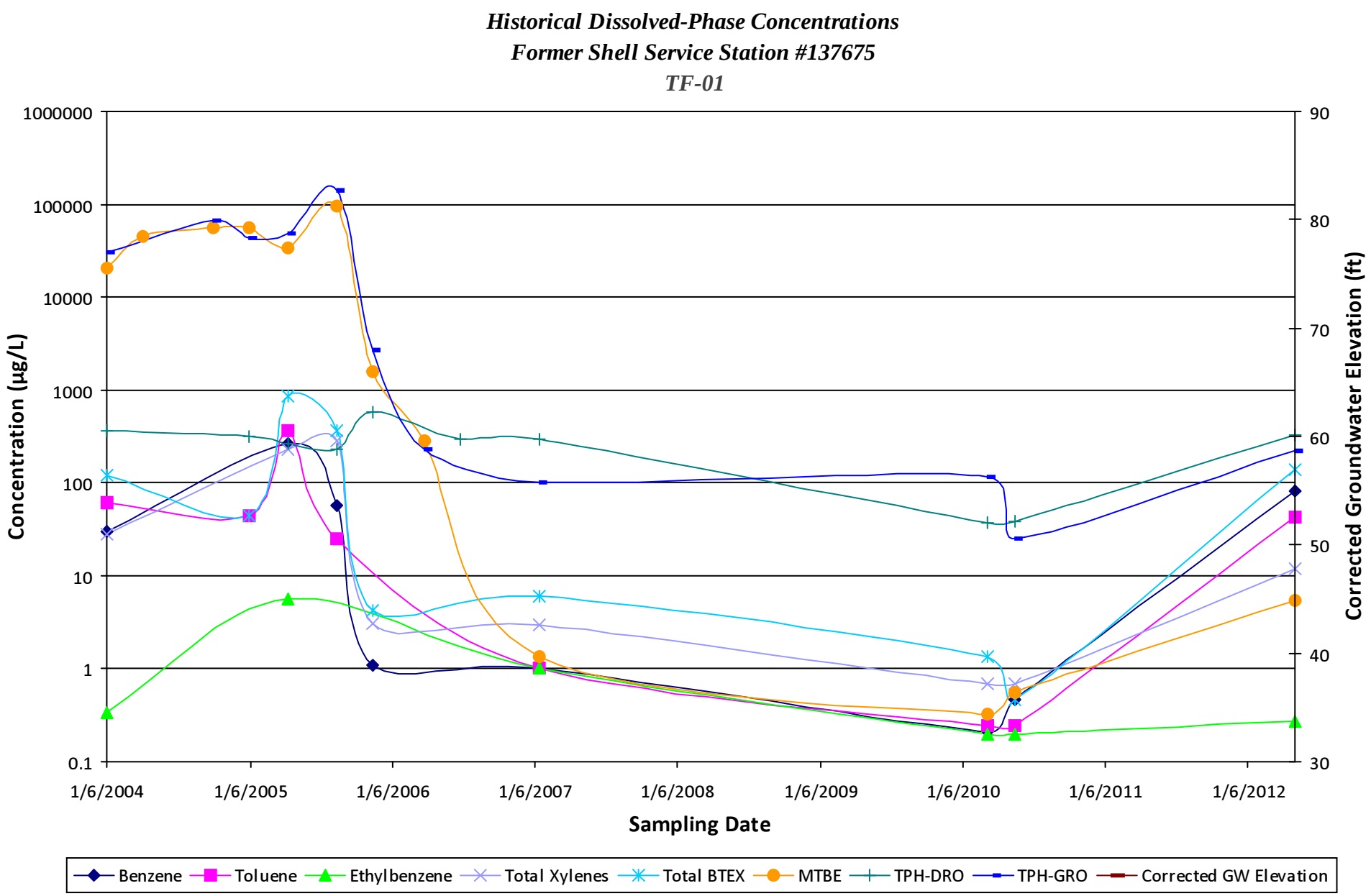

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
RW-19
Concentration (µg/L)
1000
100
10
1
0.1
Corrected Groundwater Elevation (ft)
90
80
70
60
50
40
30
9/27/2010
11/27/2010
1/27/2011
3/27/2011
5/27/2011
7/27/2011
9/27/2011
11/27/2011
1/27/2012
3/27/2012
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

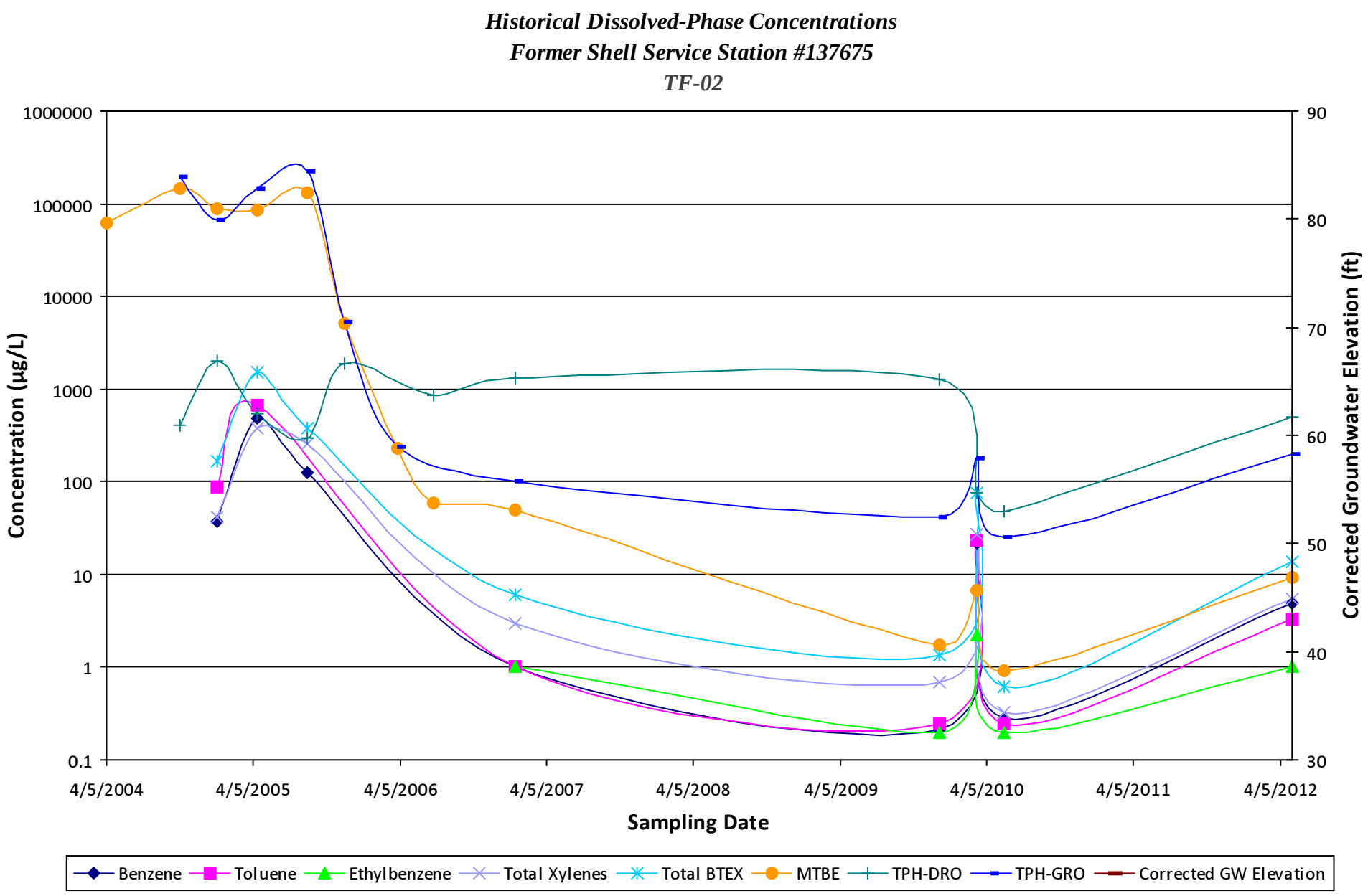

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
RW-20
Concentration (µg/L)
10000
1000
100
10
1
0.1
Corrected Groundwater Elevation (ft)
90
80
70
60
50
40
30
12/2/2010
2/2/2011
4/2/2011
6/2/2011
8/2/2011
10/2/2011
12/2/2011
2/2/2012
4/2/2012
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation


Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
RW-21
Concentration (µg/L)
10000
1000
100
10
1
0.1
Corrected Groundwater Elevation (ft)
90
80
70
60
50
40
30
12/2/2010
2/2/2011
4/2/2011
6/2/2011
8/2/2011
10/2/2011
12/2/2011
2/2/2012
4/2/2012
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation


Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
RW-22
Concentration (µg/L)
100000
10000
1000
100
10
1
0.1
Corrected Groundwater Elevation (ft)
90
80
70
60
50
40
30
9/27/2010
11/27/2010
1/27/2011
3/27/2011
5/27/2011
7/27/2011
9/27/2011
11/27/2011
1/27/2012
3/27/2012
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

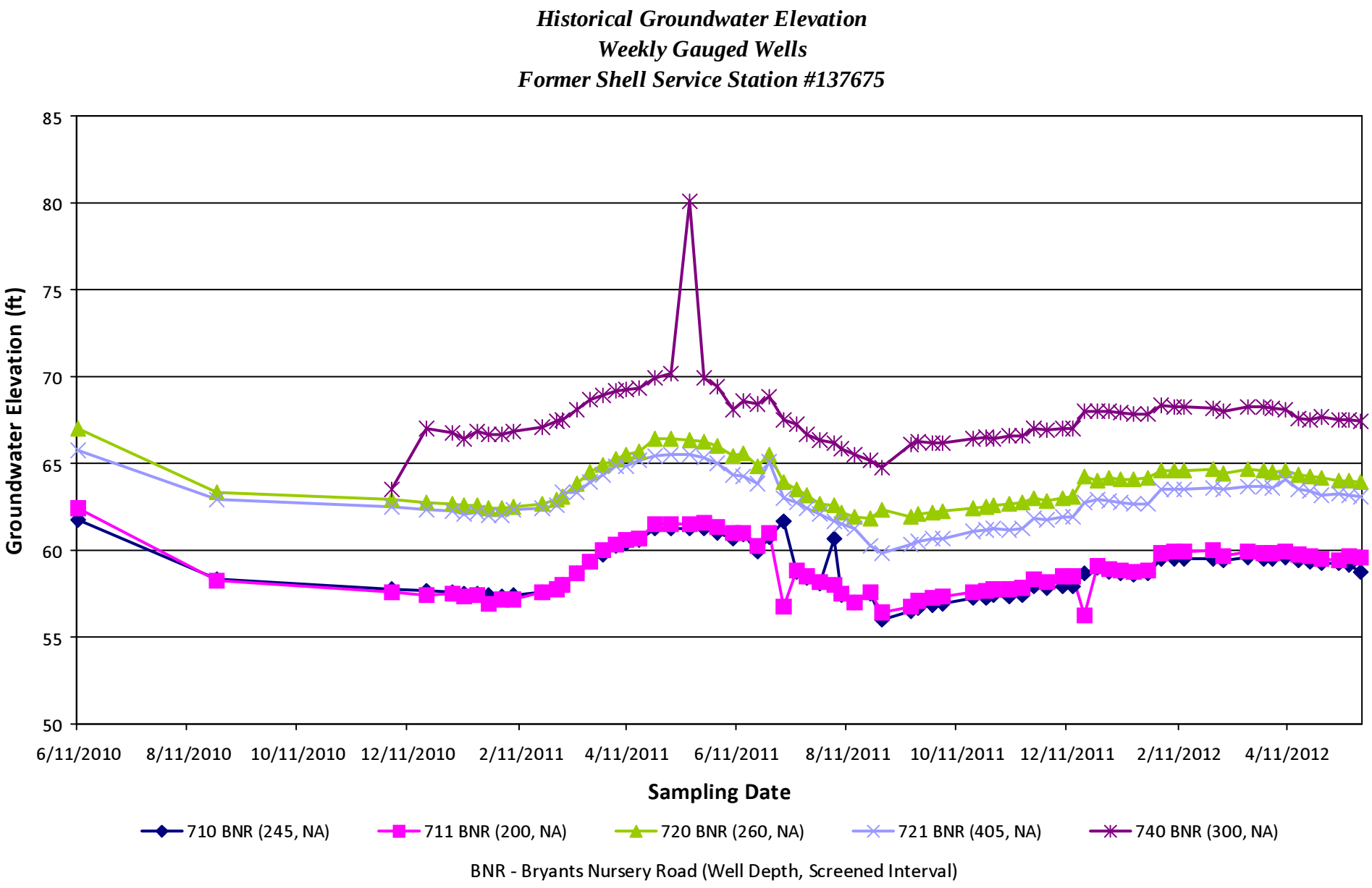

Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
RW-23
10000
1000
100
10
1
0.1
Concentration (µg/L)
90
80
70
60
50
40
30
Corrected Groundwater Elevation (ft)
12/2/2010
2/2/2011
4/2/2011
6/2/2011
8/2/2011
10/2/2011
12/2/2011
2/2/2012
4/2/2012
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation


Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
TF-01
Concentration (µg/L)
1000000
100000
10000
1000
100
10
1
0.1
Corrected Groundwater Elevation (ft)
90
80
70
60
50
40
30
1/6/2004
1/6/2005
1/6/2006
1/6/2007
1/6/2008
1/6/2009
1/6/2010
1/6/2011
1/6/2012
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation


Historical Dissolved-Phase Concentrations
Former Shell Service Station #137675
TF-02
Concentration (µg/L)
1000000
100000
10000
1000
100
10
1
0.1
Corrected Groundwater Elevation (ft)
90
80
70
60
50
40
30
4/5/2004
4/5/2005
4/5/2006
4/5/2007
4/5/2008
4/5/2009
4/5/2010
4/5/2011
4/5/2012
Sampling Date
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total BTEX
MTBE
TPH-DRO
TPH-GRO
Corrected GW Elevation

# Appendix B

# Groundwater Elevation Trends - Weekly Gauged Wells


Historical Groundwater Elevation
Weekly Gauged Wells
Former Shell Service Station #137675
Groundwater Elevation (ft)
85
80
75
70
65
60
55
50
6/11/2010
8/11/2010
10/11/2010
12/11/2010
2/11/2011
4/11/2011
6/11/2011
8/11/2011
10/11/2011
12/11/2011
2/11/2012
4/11/2012
Sampling Date
710 BNR (245, NA)
711 BNR (200, NA)
720 BNR (260, NA)
721 BNR (405, NA)
740 BNR (300, NA)
BNR - Bryants Nursery Road (Well Depth, Screened Interval)

# Appendix C

# Groundwater and Potable Laboratory Analytical Reports

New Jersey
ACCUTEST LABORATORIES

05/16/12

# Technical Report for

## Shell Oil Products US

URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

INC#97436977

Accutest Job Number: JB5604

Sampling Dates: 05/01/12 - 05/02/12

Report to:

URS Corporation
12420 Milestone Center Drive Suite 150
Germantown, MD 20876
jenna_anthony@urscorp.com; adriane_rogers@urscorp.com

ATTN: Jenna Anthony

Total number of pages in report: **278**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul Ioannidis
Lab Director

Client Service contact: Marty Vitanza 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.



Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

# Table of Contents

-1-


**Section 1: Sample Summary** ..... 4
**Section 2: Case Narrative/Conformance Summary** ..... 7
**Section 3: Sample Results** ..... 9
3.1: JB5604-1: 137675-MW-06D ..... 10
3.2: JB5604-2: 137675-MW-06R ..... 15
3.3: JB5604-3: 137675-MW-06S ..... 20
3.4: JB5604-4: 137675-MW-07D ..... 23
3.5: JB5604-5: 137675-MW-07S ..... 28
3.6: JB5604-6: 137675-MW-11D ..... 33
3.7: JB5604-7: 137675-MW-11R ..... 38
3.8: JB5604-8: 137675-MW-11S ..... 43
3.9: JB5604-9: 137675-MW-12 ..... 48
3.10: JB5604-10: 137675-MW-15D ..... 53
3.11: JB5604-11: 137675-MW-15S ..... 58
3.12: JB5604-12: 137675-MW-16D ..... 63
3.13: JB5604-13: 137675-MW-16S ..... 68
3.14: JB5604-14: 137675-MW-17D ..... 73
3.15: JB5604-15: 137675-MW-17S ..... 78
3.16: JB5604-16: 137675-MW-17W ..... 83
3.17: JB5604-17: 137675-MW-18 ..... 88
3.18: JB5604-18: 137675-MW-24S ..... 93
3.19: JB5604-19: 137675-MW-24D ..... 98
3.20: JB5604-20: 137675-MW-25S ..... 103
3.21: JB5604-21: 137675-MW-25D ..... 108
3.22: JB5604-22: 137675-MW-26S ..... 113
3.23: JB5604-23: 137675-MW-26D ..... 118
3.24: JB5604-24: 137675-RW-27 ..... 123
3.25: JB5604-25: 137675-750 BNS ..... 128
3.26: JB5604-26: 137675-MW-05D ..... 132
3.27: JB5604-27: 137675-MW-05R ..... 137
3.28: JB5604-28: 137675-MW-05S ..... 142
3.29: JB5604-29: 710 BRYANTS NURSERY ..... 147
3.30: JB5604-30: 711 BRYANTS NURSERY ..... 152
3.31: JB5604-31: 720 BRYANTS NURSERY ..... 157
3.32: JB5604-32: 721 BRYANTS NURSERY ..... 162
3.33: JB5604-33: 137675-MW-13D ..... 167
3.34: JB5604-34: 137675-MW-13S ..... 172
3.35: JB5604-35: 137675-MW-14D ..... 177
3.36: JB5604-36: 137675-MW-14S ..... 182
**Section 4: Misc. Forms** ..... 187
4.1: Chain of Custody ..... 188
**Section 5: GC/MS Volatiles - QC Data Summaries** ..... 196

# Table of Contents



5.1: Method Blank Summary ..... 197
5.2: Blank Spike Summary ..... 212
5.3: Matrix Spike/Matrix Spike Duplicate Summary ..... 227
5.4: Instrument Performance Checks (BFB) ..... 242
5.5: Surrogate Recovery Summaries ..... 251
**Section 6: GC Volatiles - QC Data Summaries ..... 254**
6.1: Method Blank Summary ..... 255
6.2: Blank Spike Summary ..... 262
6.3: Matrix Spike/Matrix Spike Duplicate Summary ..... 265
6.4: Surrogate Recovery Summaries ..... 268
**Section 7: GC Semi-volatiles - QC Data Summaries ..... 270**
7.1: Method Blank Summary ..... 271
7.2: Blank Spike Summary ..... 273
7.3: Matrix Spike/Matrix Spike Duplicate Summary ..... 275
7.4: Surrogate Recovery Summaries ..... 277

Accutest Laboratories

# Sample Summary

Shell Oil Products US

**Job No:** JB5604

URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD
Project No: INC#97436977

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| JB5604-1 | 05/02/12 | 14:32 | RB | 05/03/12 | AQ | Ground Water | 137675-MW-06D |
| JB5604-2 | 05/02/12 | 15:25 | RB | 05/03/12 | AQ | Ground Water | 137675-MW-06R |
| JB5604-3 | 05/02/12 | 15:00 | RB | 05/03/12 | AQ | Ground Water | 137675-MW-06S |
| JB5604-4 | 05/02/12 | 15:00 | RB | 05/03/12 | AQ | Ground Water | 137675-MW-07D |
| JB5604-5 | 05/02/12 | 15:00 | RB | 05/03/12 | AQ | Ground Water | 137675-MW-07S |
| JB5604-6 | 05/01/12 | 16:50 | RB | 05/03/12 | AQ | Ground Water | 137675-MW-11D |
| JB5604-7 | 05/02/12 | 10:30 | RB | 05/03/12 | AQ | Ground Water | 137675-MW-11R |
| JB5604-8 | 05/02/12 | 11:00 | RB | 05/03/12 | AQ | Ground Water | 137675-MW-11S |
| JB5604-9 | 05/02/12 | 14:05 | RB | 05/03/12 | AQ | Ground Water | 137675-MW-12 |
| JB5604-10 | 05/01/12 | 14:44 | RB | 05/03/12 | AQ | Ground Water | 137675-MW-15D |
| JB5604-11 | 05/01/12 | 14:24 | RB | 05/03/12 | AQ | Ground Water | 137675-MW-15S |
| JB5604-12 | 05/01/12 | 13:30 | RB | 05/03/12 | AQ | Ground Water | 137675-MW-16D |
| JB5604-13 | 05/01/12 | 13:20 | RB | 05/03/12 | AQ | Ground Water | 137675-MW-16S |

Accutest Laboratories

# Sample Summary
(continued)

Shell Oil Products US

**Job No:** JB5604

URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD
Project No: INC#97436977

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| JB5604-14 | 05/01/12 | 15:55 | RB | 05/03/12 | AQ | Ground Water | 137675-MW-17D |
| JB5604-15 | 05/01/12 | 16:26 | RB | 05/03/12 | AQ | Ground Water | 137675-MW-17S |
| JB5604-16 | 05/02/12 | 11:40 | RB | 05/03/12 | AQ | Ground Water | 137675-MW-17W |
| JB5604-17 | 05/02/12 | 15:50 | RB | 05/03/12 | AQ | Ground Water | 137675-MW-18 |
| JB5604-18 | 05/02/12 | 17:30 | RB | 05/03/12 | AQ | Ground Water | 137675-MW-24S |
| JB5604-19 | 05/02/12 | 08:00 | RB | 05/03/12 | AQ | Ground Water | 137675-MW-24D |
| JB5604-20 | 05/02/12 | 08:55 | RB | 05/03/12 | AQ | Ground Water | 137675-MW-25S |
| JB5604-21 | 05/02/12 | 09:20 | RB | 05/03/12 | AQ | Ground Water | 137675-MW-25D |
| JB5604-22 | 05/02/12 | 11:12 | RB | 05/03/12 | AQ | Ground Water | 137675-MW-26S |
| JB5604-23 | 05/02/12 | 10:25 | RB | 05/03/12 | AQ | Ground Water | 137675-MW-26D |
| JB5604-24 | 05/02/12 | 10:58 | RB | 05/03/12 | AQ | Ground Water | 137675-RW-27 |
| JB5604-25 | 05/02/12 | 13:45 | RB | 05/03/12 | AQ | Ground Water | 137675-750 BNS |
| JB5604-26 | 05/01/12 | 14:30 | RB | 05/03/12 | AQ | Ground Water | 137675-MW-05D |

Accutest Laboratories

# Sample Summary
(continued)

Shell Oil Products US

**Job No:** JB5604

URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD
Project No: INC#97436977

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| JB5604-27 | 05/01/12 | 14:35 | RB | 05/03/12 | AQ | Ground Water | 137675-MW-05R |
| JB5604-28 | 05/01/12 | 15:30 | RB | 05/03/12 | AQ | Ground Water | 137675-MW-05S |
| JB5604-29 | 05/02/12 | 11:40 | RB | 05/03/12 | AQ | Ground Water | 710 BRYANTS NURSERY |
| JB5604-30 | 05/02/12 | 11:55 | RB | 05/03/12 | AQ | Ground Water | 711 BRYANTS NURSERY |
| JB5604-31 | 05/02/12 | 12:40 | RB | 05/03/12 | AQ | Ground Water | 720 BRYANTS NURSERY |
| JB5604-32 | 05/02/12 | 12:15 | RB | 05/03/12 | AQ | Ground Water | 721 BRYANTS NURSERY |
| JB5604-33 | 05/01/12 | 10:30 | RB | 05/03/12 | AQ | Ground Water | 137675-MW-13D |
| JB5604-34 | 05/01/12 | 10:00 | RB | 05/03/12 | AQ | Ground Water | 137675-MW-13S |
| JB5604-35 | 05/01/12 | 12:00 | RB | 05/03/12 | AQ | Ground Water | 137675-MW-14D |
| JB5604-36 | 05/01/12 | 11:26 | RB | 05/03/12 | AQ | Ground Water | 137675-MW-14S |

# CASE NARRATIVE / CONFORMANCE SUMMARY

| | | | |
|---|---|---|---|
| **Client:** | Shell Oil Products US | **Job No** | JB5604 |
| **Site:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Sprin | **Report Date** | 5/16/2012 9:43:00 AM |

On 05/03/2012, 36 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 3 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB5604 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

## Volatiles by GCMS By Method SW846 8260B

**Matrix:** AQ **Batch ID:** V2E3489

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB5604-11MS, JB5604-11MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

**Matrix:** AQ **Batch ID:** V2E3498

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB5604-26MS, JB5604-26MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

**Matrix:** AQ **Batch ID:** V2E3500

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB5604-13MS, JB5604-13MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for Methyl Tert Butyl Ether are outside control limits. Outside control limits due to high level in sample relative to spike amount.

**Matrix:** AQ **Batch ID:** V3D3165

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB5604-35MS, JB5604-35MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for Methyl Tert Butyl Ether are outside control limits. Outside control limits due to high level in sample relative to spike amount.

**Matrix:** AQ **Batch ID:** V4B790

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB5941-1MS, JB5941-1MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for Trichloroethene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- Matrix Spike Duplicate Recovery(s) for Trichloroethene are outside control limits. Probable cause due to matrix interference.

## Volatiles by GC By Method SW846 8015C

**Matrix:** AQ **Batch ID:** GUV3863

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB5604-2MS, JB5604-2MSD were used as the QC samples indicated.

**Matrix:** AQ **Batch ID:** GUV3864

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB5604-30MS, JB5604-30MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

**Matrix:** AQ **Batch ID:** GUV3865

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB5604-19MS, JB5604-19MSD were used as the QC samples indicated.

## Extractables by GC By Method SW846 8015C

**Matrix:** AQ **Batch ID:** OP56758

- All samples were extracted within the recommended method holding time.
- Sample(s) JB5604-1MS, JB5604-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

**Matrix:** AQ **Batch ID:** OP56759

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB5604-22MS, JB5604-22MSD were used as the QC samples indicated.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

New Jersey

ACCUTEST LABORATORIES



## Sample Results

Report of Analysis

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-06D | | |
| **Lab Sample ID:** | JB5604-1 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2E77916.D | 2.5 | 05/11/12 | MAH | n/a | n/a | V2E3498 |
| Run #2 | 2E77917.D | 25 | 05/11/12 | MAH | n/a | n/a | V2E3498 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 25 | 13 | ug/l | |
| 71-43-2 | Benzene | 1.4 | 2.5 | 0.55 | ug/l | J |
| 108-86-1 | Bromobenzene | ND | 13 | 0.46 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 13 | 0.99 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 2.5 | 0.57 | ug/l | |
| 75-25-2 | Bromoform | ND | 10 | 0.61 | ug/l | |
| 74-83-9 | Bromomethane | ND | 5.0 | 0.79 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 25 | 7.3 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 13 | 0.83 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 13 | 0.50 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 13 | 0.59 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 2.5 | 0.49 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 2.5 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 2.5 | 0.92 | ug/l | |
| 67-66-3 | Chloroform | ND | 2.5 | 0.52 | ug/l | |
| 74-87-3 | Chloromethane | ND | 2.5 | 0.55 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 13 | 0.47 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 13 | 0.48 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | 13.9 | 13 | 0.63 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 25 | 3.2 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 2.5 | 0.51 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.0 | 0.52 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 2.5 | 0.46 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 2.5 | 0.72 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 2.5 | 0.64 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 13 | 0.78 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | 0.51 | 2.5 | 0.48 | ug/l | J |
| 107-06-2 | 1,2-Dichloroethane | ND | 2.5 | 0.45 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 2.5 | 0.70 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 2.5 | 0.54 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 2.5 | 0.78 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 2.5 | 0.54 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-06D | | |
| **Lab Sample ID:** | JB5604-1 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 13 | 0.48 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 13 | 0.65 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 13 | 0.90 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 2.5 | 0.54 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 2.5 | 0.46 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 2.5 | 0.53 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 13 | 0.58 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 5.0 | 0.49 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 13 | 0.47 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 2100 [a] | 25 | 4.6 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 13 | 3.0 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 13 | 1.1 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 5.0 | 0.51 | ug/l | |
| 91-20-3 | Naphthalene | 4.9 | 13 | 1.7 | ug/l | J |
| 103-65-1 | n-Propylbenzene | ND | 13 | 0.44 | ug/l | |
| 100-42-5 | Styrene | ND | 13 | 0.57 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | 447 | 63 | 4.6 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | 26.4 | 13 | 0.82 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 13 | 0.51 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 13 | 0.61 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 2.5 | 0.50 | ug/l | |
| 127-18-4 | Tetrachloroethene | 0.88 | 2.5 | 0.80 | ug/l | J |
| 108-88-3 | Toluene | ND | 2.5 | 0.36 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 13 | 1.7 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 13 | 0.37 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.5 | 0.59 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 2.5 | 0.58 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 2.5 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 13 | 0.88 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 13 | 1.3 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.0 | 0.45 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.0 | 0.56 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 2.5 | 0.67 | ug/l | |
| | m,p-Xylene | ND | 2.5 | 0.80 | ug/l | |
| 95-47-6 | o-Xylene | ND | 2.5 | 0.43 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 2.5 | 0.43 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 113% | 112% | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-06D | | |
| **Lab Sample ID:** | JB5604-1 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 106% | 105% | 70-127% |
| 2037-26-5 | Toluene-D8 | 113% | 114% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 109% | 109% | 76-118% |

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-06D | | |
| **Lab Sample ID:** | JB5604-1 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV97951.D | 1 | 05/07/12 | XPL | n/a | n/a | GUV3863 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 2.42 | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 81% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-06D | | |
| **Lab Sample ID:** | JB5604-1 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Z23550.D | 1 | 05/09/12 | CS | 05/04/12 | OP56758 | G2Z974 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 83% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 73% | | 32-138% |
| 438-22-2 | 5a-Androstane | 84% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-06R | | |
| **Lab Sample ID:** | JB5604-2 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 4B18002.D | 1 | 05/10/12 | TYG | n/a | n/a | V4B790 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.21 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | 0.71 | 5.0 | 0.25 | ug/l | J |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.19 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-06R | | |
| **Lab Sample ID:** | JB5604-2 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 63.1 | 1.0 | 0.18 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | ND | 5.0 | 0.68 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | ND | 25 | 1.9 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 5.0 | 0.33 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.32 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.21 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 0.23 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.17 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 106% | | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-06R | | |
| **Lab Sample ID:** | JB5604-2 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 103% | | 70-127% |
| 2037-26-5 | Toluene-D8 | 106% | | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | | 76-118% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-06R | | |
| **Lab Sample ID:** | JB5604-2 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV97948.D | 1 | 05/07/12 | XPL | n/a | n/a | GUV3863 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 82% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-06R | | |
| **Lab Sample ID:** | JB5604-2 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Z23551.D | 1 | 05/09/12 | CS | 05/04/12 | OP56758 | G2Z974 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 82% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 73% | | 32-138% |
| 438-22-2 | 5a-Androstane | 83% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-06S | | |
| **Lab Sample ID:** | JB5604-3 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 4B18003.D | 1 | 05/10/12 | TYG | n/a | n/a | V4B790 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.21 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | ND | 5.0 | 0.25 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.19 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-06S | | |
| **Lab Sample ID:** | JB5604-3 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 0.92 | 1.0 | 0.18 | ug/l | J |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | ND | 5.0 | 0.68 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | ND | 25 | 1.9 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 5.0 | 0.33 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.32 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.21 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 0.23 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.17 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 106% | | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-06S | | |
| **Lab Sample ID:** | JB5604-3 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 104% | | 70-127% |
| 2037-26-5 | Toluene-D8 | 106% | | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | | 76-118% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-07D | | |
| **Lab Sample ID:** | JB5604-4 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 4B18011.D | 1 | 05/10/12 | TYG | n/a | n/a | V4B790 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.21 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | ND | 5.0 | 0.25 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.19 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-07D | | |
| **Lab Sample ID:** | JB5604-4 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.18 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | ND | 5.0 | 0.68 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | ND | 25 | 1.9 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 5.0 | 0.33 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | 0.49 | 1.0 | 0.32 | ug/l | J |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.21 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 0.23 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.17 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 105% | | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-07D | | |
| **Lab Sample ID:** | JB5604-4 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 101% | | 70-127% |
| 2037-26-5 | Toluene-D8 | 106% | | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 101% | | 76-118% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-07D | | |
| **Lab Sample ID:** | JB5604-4 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV97949.D | 1 | 05/07/12 | XPL | n/a | n/a | GUV3863 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 81% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-07D | | |
| **Lab Sample ID:** | JB5604-4 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Z23552.D | 1 | 05/09/12 | CS | 05/04/12 | OP56758 | G2Z974 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 74% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 69% | | 32-138% |
| 438-22-2 | 5a-Androstane | 78% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-07S | | |
| **Lab Sample ID:** | JB5604-5 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 4B18012.D | 1 | 05/10/12 | TYG | n/a | n/a | V4B790 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.21 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | ND | 5.0 | 0.25 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.19 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-07S | | |
| **Lab Sample ID:** | JB5604-5 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 22.2 | 1.0 | 0.18 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | ND | 5.0 | 0.68 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | ND | 25 | 1.9 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 5.0 | 0.33 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.32 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.21 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 0.23 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.17 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 105% | | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-07S | | |
| **Lab Sample ID:** | JB5604-5 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 102% | | 70-127% |
| 2037-26-5 | Toluene-D8 | 107% | | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | | 76-118% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-07S | | |
| **Lab Sample ID:** | JB5604-5 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV97980.D | 1 | 05/08/12 | XPL | n/a | n/a | GUV3864 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 80% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-07S | | |
| **Lab Sample ID:** | JB5604-5 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Z23553.D | 1 | 05/09/12 | CS | 05/04/12 | OP56758 | G2Z974 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 900 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.11 | 0.0039 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 80% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 73% | | 32-138% |
| 438-22-2 | 5a-Androstane | 83% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-11D | | |
| **Lab Sample ID:** | JB5604-6 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 4B18013.D | 1 | 05/10/12 | TYG | n/a | n/a | V4B790 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.21 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | ND | 5.0 | 0.25 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.19 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-11D | | |
| **Lab Sample ID:** | JB5604-6 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 3.8 | 1.0 | 0.18 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | ND | 5.0 | 0.68 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | ND | 25 | 1.9 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 5.0 | 0.33 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.32 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.21 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 0.23 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.17 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 106% | | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-11D | | |
| **Lab Sample ID:** | JB5604-6 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 104% | | 70-127% |
| 2037-26-5 | Toluene-D8 | 106% | | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | | 76-118% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-11D | | |
| **Lab Sample ID:** | JB5604-6 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV97981.D | 1 | 05/08/12 | XPL | n/a | n/a | GUV3864 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 81% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-11D | | |
| **Lab Sample ID:** | JB5604-6 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Z23554.D | 1 | 05/09/12 | CS | 05/04/12 | OP56758 | G2Z974 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 83% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 73% | | 32-138% |
| 438-22-2 | 5a-Androstane | 84% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-11R | | |
| **Lab Sample ID:** | JB5604-7 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 4B18014.D | 1 | 05/10/12 | TYG | n/a | n/a | V4B790 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.21 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | ND | 5.0 | 0.25 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.19 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-11R | | |
| **Lab Sample ID:** | JB5604-7 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 2.6 | 1.0 | 0.18 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | ND | 5.0 | 0.68 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | ND | 25 | 1.9 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 5.0 | 0.33 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.32 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.21 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 0.23 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.17 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 106% | | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-11R | | |
| **Lab Sample ID:** | JB5604-7 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 103% | | 70-127% |
| 2037-26-5 | Toluene-D8 | 107% | | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | | 76-118% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-11R | | |
| **Lab Sample ID:** | JB5604-7 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV97982.D | 1 | 05/08/12 | XPL | n/a | n/a | GUV3864 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 81% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-11R | | |
| **Lab Sample ID:** | JB5604-7 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Z23555.D | 1 | 05/09/12 | CS | 05/04/12 | OP56758 | G2Z974 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 610 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | 0.798 | 0.16 | 0.0057 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 44% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 48% | | 32-138% |
| 438-22-2 | 5a-Androstane | 51% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-11S | | |
| **Lab Sample ID:** | JB5604-8 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2E77918.D | 1 | 05/11/12 | MAH | n/a | n/a | V2E3498 |
| Run #2 | 2E77919.D | 10 | 05/11/12 | MAH | n/a | n/a | V2E3498 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | 0.29 | 1.0 | 0.22 | ug/l | J |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.21 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | 20.5 | 5.0 | 0.25 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.19 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-11S | | |
| **Lab Sample ID:** | JB5604-8 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 804 [a] | 10 | 1.8 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | ND | 5.0 | 0.68 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | 1350 [a] | 250 | 19 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | 16.1 | 5.0 | 0.33 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.32 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.21 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 0.23 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.17 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 113% | 114% | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-11S | | |
| **Lab Sample ID:** | JB5604-8 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 107% | 106% | 70-127% |
| 2037-26-5 | Toluene-D8 | 112% | 113% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 109% | 107% | 76-118% |

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-11S | | |
| **Lab Sample ID:** | JB5604-8 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV97964.D | 1 | 05/07/12 | XPL | n/a | n/a | GUV3863 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 1.01 | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 81% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-11S | | |
| **Lab Sample ID:** | JB5604-8 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Z23558.D | 1 | 05/09/12 | CS | 05/04/12 | OP56758 | G2Z974 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 87% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 79% | | 32-138% |
| 438-22-2 | 5a-Androstane | 88% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-12 | | |
| **Lab Sample ID:** | JB5604-9 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2E77923.D | 2.5 | 05/11/12 | MAH | n/a | n/a | V2E3498 |
| Run #2 | 2E77924.D | 25 | 05/11/12 | MAH | n/a | n/a | V2E3498 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 25 | 13 | ug/l | |
| 71-43-2 | Benzene | 0.56 | 2.5 | 0.55 | ug/l | J |
| 108-86-1 | Bromobenzene | ND | 13 | 0.46 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 13 | 0.99 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 2.5 | 0.57 | ug/l | |
| 75-25-2 | Bromoform | ND | 10 | 0.61 | ug/l | |
| 74-83-9 | Bromomethane | ND | 5.0 | 0.79 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 25 | 7.3 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 13 | 0.83 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 13 | 0.50 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 13 | 0.59 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 2.5 | 0.49 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 2.5 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 2.5 | 0.92 | ug/l | |
| 67-66-3 | Chloroform | ND | 2.5 | 0.52 | ug/l | |
| 74-87-3 | Chloromethane | ND | 2.5 | 0.55 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 13 | 0.47 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 13 | 0.48 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | 11.8 | 13 | 0.63 | ug/l | J |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 25 | 3.2 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 2.5 | 0.51 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.0 | 0.52 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 2.5 | 0.46 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 2.5 | 0.72 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 2.5 | 0.64 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 13 | 0.78 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.5 | 0.48 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 2.5 | 0.45 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 2.5 | 0.70 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 2.5 | 0.54 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 2.5 | 0.78 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 2.5 | 0.54 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-12 | | |
| **Lab Sample ID:** | JB5604-9 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 13 | 0.48 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 13 | 0.65 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 13 | 0.90 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 2.5 | 0.54 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 2.5 | 0.46 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 2.5 | 0.53 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 13 | 0.58 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 5.0 | 0.49 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 13 | 0.47 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 1930 [a] | 25 | 4.6 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 13 | 3.0 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 13 | 1.1 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 5.0 | 0.51 | ug/l | |
| 91-20-3 | Naphthalene | 3.4 | 13 | 1.7 | ug/l | J |
| 103-65-1 | n-Propylbenzene | ND | 13 | 0.44 | ug/l | |
| 100-42-5 | Styrene | ND | 13 | 0.57 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | 358 | 63 | 4.6 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | 25.6 | 13 | 0.82 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 13 | 0.51 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 13 | 0.61 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 2.5 | 0.50 | ug/l | |
| 127-18-4 | Tetrachloroethene | 0.93 | 2.5 | 0.80 | ug/l | J |
| 108-88-3 | Toluene | ND | 2.5 | 0.36 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 13 | 1.7 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 13 | 0.37 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.5 | 0.59 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 2.5 | 0.58 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 2.5 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 13 | 0.88 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 13 | 1.3 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.0 | 0.45 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.0 | 0.56 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 2.5 | 0.67 | ug/l | |
| | m,p-Xylene | ND | 2.5 | 0.80 | ug/l | |
| 95-47-6 | o-Xylene | ND | 2.5 | 0.43 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 2.5 | 0.43 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 114% | 113% | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-12 | | |
| **Lab Sample ID:** | JB5604-9 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 106% | 107% | 70-127% |
| 2037-26-5 | Toluene-D8 | 113% | 113% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 109% | 108% | 76-118% |

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-12 | | |
| **Lab Sample ID:** | JB5604-9 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV97965.D | 1 | 05/07/12 | XPL | n/a | n/a | GUV3863 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 2.25 | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 82% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-12 | | |
| **Lab Sample ID:** | JB5604-9 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Z23559.D | 1 | 05/09/12 | CS | 05/04/12 | OP56758 | G2Z974 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 83% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 75% | | 32-138% |
| 438-22-2 | 5a-Androstane | 84% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-15D | | |
| **Lab Sample ID:** | JB5604-10 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2E77926.D | 1 | 05/11/12 | MAH | n/a | n/a | V2E3498 |
| Run #2 | 2E77927.D | 10 | 05/11/12 | MAH | n/a | n/a | V2E3498 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | 2.1 | 1.0 | 0.22 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | 0.23 | 1.0 | 0.21 | ug/l | J |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | 5.7 | 5.0 | 0.25 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | 0.45 | 1.0 | 0.19 | ug/l | J |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-15D | | |
| **Lab Sample ID:** | JB5604-10 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 569 [a] | 10 | 1.8 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | 0.88 | 5.0 | 0.68 | ug/l | J |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | 45.2 | 25 | 1.9 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | 6.0 | 5.0 | 0.33 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | 0.65 | 1.0 | 0.32 | ug/l | J |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | 0.75 | 1.0 | 0.21 | ug/l | J |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 0.23 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.17 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 115% | 114% | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-15D | | |
| **Lab Sample ID:** | JB5604-10 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 108% | 109% | 70-127% |
| 2037-26-5 | Toluene-D8 | 112% | 113% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 108% | 110% | 76-118% |

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-15D | | |
| **Lab Sample ID:** | JB5604-10 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV97962.D | 1 | 05/07/12 | XPL | n/a | n/a | GUV3863 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 0.680 | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 81% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-15D | | |
| **Lab Sample ID:** | JB5604-10 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Z23560.D | 1 | 05/09/12 | CS | 05/04/12 | OP56758 | G2Z974 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 930 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.11 | 0.0038 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 69% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 54% | | 32-138% |
| 438-22-2 | 5a-Androstane | 63% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-15S | | |
| **Lab Sample ID:** | JB5604-11 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2E77925.D | 1 | 05/11/12 | MAH | n/a | n/a | V2E3498 |
| Run #2 | 2E77751.D | 5 | 05/05/12 | MAH | n/a | n/a | V2E3489 |
| Run #3 | 2E77752.D | 50 | 05/06/12 | MAH | n/a | n/a | V2E3489 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |
| Run #3 | 5.0 ml |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | 2.4 | 1.0 | 0.22 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.21 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | 10.3 | 5.0 | 0.25 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.19 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | 0.38 | 1.0 | 0.18 | ug/l | J |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-15S | | |
| **Lab Sample ID:** | JB5604-11 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 1260 [a] | 50 | 9.2 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | ND | 5.0 | 0.68 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | 55.8 | 25 | 1.9 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | 17.4 | 5.0 | 0.33 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | 0.66 | 1.0 | 0.32 | ug/l | J |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.21 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 0.23 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | 0.55 | 1.0 | 0.17 | ug/l | J |
| 1330-20-7 | Xylene (total) | 0.55 | 1.0 | 0.17 | ug/l | J |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-15S | | |
| **Lab Sample ID:** | JB5604-11 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Run# 3 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 114% | 109% | 110% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 108% | 109% | 113% | 70-127% |
| 2037-26-5 | Toluene-D8 | 113% | 109% | 110% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 107% | 108% | 106% | 76-118% |

(a) Result is from Run# 3

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-15S | | |
| **Lab Sample ID:** | JB5604-11 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV97953.D | 1 | 05/07/12 | XPL | n/a | n/a | GUV3863 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 1.68 | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 81% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-15S | | |
| **Lab Sample ID:** | JB5604-11 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Z23561.D | 1 | 05/09/12 | CS | 05/04/12 | OP56758 | G2Z974 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 68% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 62% | | 32-138% |
| 438-22-2 | 5a-Androstane | 68% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-16D | | |
| **Lab Sample ID:** | JB5604-12 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2E77961.D | 1 | 05/12/12 | MAH | n/a | n/a | V2E3500 |
| Run #2 | 2E77962.D | 10 | 05/12/12 | MAH | n/a | n/a | V2E3500 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | 1.2 | 1.0 | 0.22 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.21 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | 5.1 | 5.0 | 0.25 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | 1.0 | 0.19 | ug/l | J |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-16D | | |
| **Lab Sample ID:** | JB5604-12 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 529 [a] | 10 | 1.8 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | ND | 5.0 | 0.68 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | 130 | 25 | 1.9 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | 10.2 | 5.0 | 0.33 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | 0.75 | 1.0 | 0.32 | ug/l | J |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | 0.40 | 1.0 | 0.21 | ug/l | J |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 0.23 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | 0.24 | 1.0 | 0.17 | ug/l | J |
| 1330-20-7 | Xylene (total) | 0.24 | 1.0 | 0.17 | ug/l | J |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 114% | 114% | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-16D | | |
| **Lab Sample ID:** | JB5604-12 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 110% | 111% | 70-127% |
| 2037-26-5 | Toluene-D8 | 113% | 115% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 109% | 109% | 76-118% |

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-16D | | |
| **Lab Sample ID:** | JB5604-12 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV97961.D | 1 | 05/07/12 | XPL | n/a | n/a | GUV3863 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 0.660 | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 81% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-16D | | |
| **Lab Sample ID:** | JB5604-12 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Z23562.D | 1 | 05/09/12 | CS | 05/04/12 | OP56758 | G2Z974 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 84% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 65% | | 32-138% |
| 438-22-2 | 5a-Androstane | 76% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-16S | | |
| **Lab Sample ID:** | JB5604-13 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2E77959.D | 5 | 05/12/12 | MAH | n/a | n/a | V2E3500 |
| Run #2 | 2E77960.D | 50 | 05/12/12 | MAH | n/a | n/a | V2E3500 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 50 | 25 | ug/l | |
| 71-43-2 | Benzene | 22.5 | 5.0 | 1.1 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 25 | 0.91 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 25 | 2.0 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 5.0 | 1.1 | ug/l | |
| 75-25-2 | Bromoform | ND | 20 | 1.2 | ug/l | |
| 74-83-9 | Bromomethane | ND | 10 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 50 | 15 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 25 | 1.7 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 25 | 1.0 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 25 | 1.2 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 5.0 | 0.97 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 5.0 | 1.1 | ug/l | |
| 75-00-3 | Chloroethane | ND | 5.0 | 1.8 | ug/l | |
| 67-66-3 | Chloroform | ND | 5.0 | 1.0 | ug/l | |
| 74-87-3 | Chloromethane | ND | 5.0 | 1.1 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 25 | 0.95 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 25 | 0.96 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | 33.3 | 25 | 1.3 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 50 | 6.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 5.0 | 1.0 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 10 | 1.0 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 5.0 | 0.92 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 5.0 | 1.4 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 5.0 | 1.3 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 25 | 1.6 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.0 | 0.96 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.0 | 0.90 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 5.0 | 1.4 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 5.0 | 1.1 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 5.0 | 1.6 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.0 | 1.1 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-16S | | |
| **Lab Sample ID:** | JB5604-13 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 25 | 0.97 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 25 | 1.3 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 25 | 1.8 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.0 | 1.1 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.0 | 0.93 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 5.0 | 1.1 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 25 | 1.2 | ug/l | |
| 98-82-8 | Isopropylbenzene | 1.1 | 10 | 0.97 | ug/l | J |
| 99-87-6 | p-Isopropyltoluene | ND | 25 | 0.94 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 4030 [a] | 50 | 9.2 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 25 | 6.1 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 25 | 2.3 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 10 | 1.0 | ug/l | |
| 91-20-3 | Naphthalene | ND | 25 | 3.4 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 25 | 0.87 | ug/l | |
| 100-42-5 | Styrene | ND | 25 | 1.1 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | 1120 | 130 | 9.3 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | 61.3 | 25 | 1.6 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 25 | 1.0 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 25 | 1.2 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.0 | 1.0 | ug/l | |
| 127-18-4 | Tetrachloroethene | 1.7 | 5.0 | 1.6 | ug/l | J |
| 108-88-3 | Toluene | ND | 5.0 | 0.73 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 25 | 3.4 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 25 | 0.75 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.0 | 1.2 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.0 | 1.2 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 5.0 | 1.1 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 25 | 1.8 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 25 | 2.7 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 10 | 0.90 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 10 | 1.1 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 5.0 | 1.3 | ug/l | |
| | m,p-Xylene | ND | 5.0 | 1.6 | ug/l | |
| 95-47-6 | o-Xylene | 2.4 | 5.0 | 0.87 | ug/l | J |
| 1330-20-7 | Xylene (total) | 2.4 | 5.0 | 0.87 | ug/l | J |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 114% | 112% | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-16S | | |
| **Lab Sample ID:** | JB5604-13 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 111% | 112% | 70-127% |
| 2037-26-5 | Toluene-D8 | 114% | 114% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 110% | 108% | 76-118% |

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-16S | | |
| **Lab Sample ID:** | JB5604-13 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV97952.D | 1 | 05/07/12 | XPL | n/a | n/a | GUV3863 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 4.44 | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 82% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-16S | | |
| **Lab Sample ID:** | JB5604-13 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Z23563.D | 1 | 05/09/12 | CS | 05/04/12 | OP56758 | G2Z974 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 85% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 73% | | 32-138% |
| 438-22-2 | 5a-Androstane | 84% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-17D | | |
| **Lab Sample ID:** | JB5604-14 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2E77963.D | 1 | 05/12/12 | MAH | n/a | n/a | V2E3500 |
| Run #2 | 2E77964.D | 10 | 05/12/12 | MAH | n/a | n/a | V2E3500 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | 5.1 | 1.0 | 0.22 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.21 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | 3.9 | 5.0 | 0.25 | ug/l | J |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | 0.34 | 1.0 | 0.19 | ug/l | J |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-17D | | |
| **Lab Sample ID:** | JB5604-14 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 252 [a] | 10 | 1.8 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | 0.75 | 5.0 | 0.68 | ug/l | J |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | 59.2 | 25 | 1.9 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | 4.1 | 5.0 | 0.33 | ug/l | J |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | 0.56 | 1.0 | 0.32 | ug/l | J |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | 0.60 | 1.0 | 0.21 | ug/l | J |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 0.23 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.17 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 115% | 116% | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-17D | | |
| **Lab Sample ID:** | JB5604-14 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 112% | 114% | 70-127% |
| 2037-26-5 | Toluene-D8 | 115% | 116% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 109% | 109% | 76-118% |

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-17D | | |
| **Lab Sample ID:** | JB5604-14 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV97959.D | 1 | 05/07/12 | XPL | n/a | n/a | GUV3863 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 0.355 | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 80% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-17D | | |
| **Lab Sample ID:** | JB5604-14 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Z23564.D | 1 | 05/09/12 | CS | 05/04/12 | OP56758 | G2Z974 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 900 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.11 | 0.0039 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 80% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 72% | | 32-138% |
| 438-22-2 | 5a-Androstane | 78% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-17S | | |
| **Lab Sample ID:** | JB5604-15 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2E77753.D | 1 | 05/06/12 | MAH | n/a | n/a | V2E3489 |
| Run #2 | 2E77754.D | 10 | 05/06/12 | MAH | n/a | n/a | V2E3489 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | 12.4 | 1.0 | 0.22 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.21 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | 11.0 | 5.0 | 0.25 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.19 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-17S | | |
| **Lab Sample ID:** | JB5604-15 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 832 [a] | 10 | 1.8 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | 1.5 | 5.0 | 0.68 | ug/l | J |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | 187 | 25 | 1.9 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | 13.0 | 5.0 | 0.33 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | 0.65 | 1.0 | 0.32 | ug/l | J |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.21 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 0.23 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.17 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 110% | 110% | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-17S | | |
| **Lab Sample ID:** | JB5604-15 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 112% | 113% | 70-127% |
| 2037-26-5 | Toluene-D8 | 106% | 110% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 107% | 108% | 76-118% |

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-17S | | |
| **Lab Sample ID:** | JB5604-15 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV97960.D | 1 | 05/07/12 | XPL | n/a | n/a | GUV3863 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 1.06 | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 80% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-17S | | |
| **Lab Sample ID:** | JB5604-15 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Z23565.D | 1 | 05/09/12 | CS | 05/04/12 | OP56758 | G2Z974 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 83% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 72% | | 32-138% |
| 438-22-2 | 5a-Androstane | 83% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-17W | | |
| **Lab Sample ID:** | JB5604-16 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2E77755.D | 1 | 05/06/12 | MAH | n/a | n/a | V2E3489 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.21 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | 0.69 | 5.0 | 0.25 | ug/l | J |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.19 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-17W | | |
| **Lab Sample ID:** | JB5604-16 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 48.8 | 1.0 | 0.18 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | ND | 5.0 | 0.68 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | ND | 25 | 1.9 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 5.0 | 0.33 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.32 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.21 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 0.23 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.17 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 109% | | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-17W | | |
| **Lab Sample ID:** | JB5604-16 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 116% | | 70-127% |
| 2037-26-5 | Toluene-D8 | 107% | | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 108% | | 76-118% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-17W | | |
| **Lab Sample ID:** | JB5604-16 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV97983.D | 1 | 05/08/12 | XPL | n/a | n/a | GUV3864 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 81% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-17W | | |
| **Lab Sample ID:** | JB5604-16 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Z23566.D | 1 | 05/09/12 | CS | 05/04/12 | OP56758 | G2Z974 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 69% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 69% | | 32-138% |
| 438-22-2 | 5a-Androstane | 71% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-18 | | |
| **Lab Sample ID:** | JB5604-17 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2E77756.D | 2.5 | 05/06/12 | MAH | n/a | n/a | V2E3489 |
| Run #2 | 2E77757.D | 25 | 05/06/12 | MAH | n/a | n/a | V2E3489 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 25 | 13 | ug/l | |
| 71-43-2 | Benzene | ND | 2.5 | 0.55 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 13 | 0.46 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 13 | 0.99 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 2.5 | 0.57 | ug/l | |
| 75-25-2 | Bromoform | ND | 10 | 0.61 | ug/l | |
| 74-83-9 | Bromomethane | ND | 5.0 | 0.79 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 25 | 7.3 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 13 | 0.83 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 13 | 0.50 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 13 | 0.59 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 2.5 | 0.49 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 2.5 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 2.5 | 0.92 | ug/l | |
| 67-66-3 | Chloroform | ND | 2.5 | 0.52 | ug/l | |
| 74-87-3 | Chloromethane | ND | 2.5 | 0.55 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 13 | 0.47 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 13 | 0.48 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | 11.5 | 13 | 0.63 | ug/l | J |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 25 | 3.2 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 2.5 | 0.51 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.0 | 0.52 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 2.5 | 0.46 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 2.5 | 0.72 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 2.5 | 0.64 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 13 | 0.78 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.5 | 0.48 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 2.5 | 0.45 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 2.5 | 0.70 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 2.5 | 0.54 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 2.5 | 0.78 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 2.5 | 0.54 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-18 | | |
| **Lab Sample ID:** | JB5604-17 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 13 | 0.48 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 13 | 0.65 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 13 | 0.90 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 2.5 | 0.54 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 2.5 | 0.46 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 2.5 | 0.53 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 13 | 0.58 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 5.0 | 0.49 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 13 | 0.47 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 2330 [a] | 25 | 4.6 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 13 | 3.0 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 13 | 1.1 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 5.0 | 0.51 | ug/l | |
| 91-20-3 | Naphthalene | 2.6 | 13 | 1.7 | ug/l | J |
| 103-65-1 | n-Propylbenzene | ND | 13 | 0.44 | ug/l | |
| 100-42-5 | Styrene | ND | 13 | 0.57 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | 374 | 63 | 4.6 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | 30.9 | 13 | 0.82 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 13 | 0.51 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 13 | 0.61 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 2.5 | 0.50 | ug/l | |
| 127-18-4 | Tetrachloroethene | 0.81 | 2.5 | 0.80 | ug/l | J |
| 108-88-3 | Toluene | ND | 2.5 | 0.36 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 13 | 1.7 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 13 | 0.37 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.5 | 0.59 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 2.5 | 0.58 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 2.5 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 13 | 0.88 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 13 | 1.3 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.0 | 0.45 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.0 | 0.56 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 2.5 | 0.67 | ug/l | |
| | m,p-Xylene | ND | 2.5 | 0.80 | ug/l | |
| 95-47-6 | o-Xylene | 2.0 | 2.5 | 0.43 | ug/l | J |
| 1330-20-7 | Xylene (total) | 2.0 | 2.5 | 0.43 | ug/l | J |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 108% | 107% | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-18 | | |
| **Lab Sample ID:** | JB5604-17 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 111% | 115% | 70-127% |
| 2037-26-5 | Toluene-D8 | 107% | 108% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 107% | 104% | 76-118% |

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-18 | | |
| **Lab Sample ID:** | JB5604-17 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV97950.D | 1 | 05/07/12 | XPL | n/a | n/a | GUV3863 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 3.00 | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 82% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-18 | | |
| **Lab Sample ID:** | JB5604-17 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Z23580.D | 1 | 05/09/12 | CS | 05/04/12 | OP56758 | G2Z975 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 72% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 57% | | 32-138% |
| 438-22-2 | 5a-Androstane | 68% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-24S | | |
| **Lab Sample ID:** | JB5604-18 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2E77758.D | 1 | 05/06/12 | MAH | n/a | n/a | V2E3489 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | 3.8 | 1.0 | 0.22 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.21 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | 2.3 | 5.0 | 0.25 | ug/l | J |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.19 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-24S | | |
| **Lab Sample ID:** | JB5604-18 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 185 | 1.0 | 0.18 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | ND | 5.0 | 0.68 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | 74.9 | 25 | 1.9 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | 4.5 | 5.0 | 0.33 | ug/l | J |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | 0.62 | 1.0 | 0.32 | ug/l | J |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.21 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 0.23 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.17 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 111% | | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-24S | | |
| **Lab Sample ID:** | JB5604-18 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 113% | | 70-127% |
| 2037-26-5 | Toluene-D8 | 108% | | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 107% | | 76-118% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-24S | | |
| **Lab Sample ID:** | JB5604-18 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV98014.D | 1 | 05/09/12 | XPL | n/a | n/a | GUV3865 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 0.287 | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 82% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-24S | | |
| **Lab Sample ID:** | JB5604-18 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Z23581.D | 1 | 05/09/12 | CS | 05/04/12 | OP56758 | G2Z975 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 82% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 72% | | 32-138% |
| 438-22-2 | 5a-Androstane | 78% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-24D | | |
| **Lab Sample ID:** | JB5604-19 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2E77759.D | 1 | 05/06/12 | MAH | n/a | n/a | V2E3489 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.21 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | ND | 5.0 | 0.25 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.19 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-24D | | |
| **Lab Sample ID:** | JB5604-19 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 8.8 | 1.0 | 0.18 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | ND | 5.0 | 0.68 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | ND | 25 | 1.9 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 5.0 | 0.33 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | 0.57 | 1.0 | 0.32 | ug/l | J |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.21 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 0.23 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.17 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 108% | | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-24D | | |
| **Lab Sample ID:** | JB5604-19 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 115% | | 70-127% |
| 2037-26-5 | Toluene-D8 | 109% | | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 107% | | 76-118% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-24D | | |
| **Lab Sample ID:** | JB5604-19 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV98015.D | 1 | 05/09/12 | XPL | n/a | n/a | GUV3865 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 81% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-24D | | |
| **Lab Sample ID:** | JB5604-19 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Z23582.D | 1 | 05/09/12 | CS | 05/04/12 | OP56758 | G2Z975 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 75% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 55% | | 32-138% |
| 438-22-2 | 5a-Androstane | 65% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-25S | | |
| **Lab Sample ID:** | JB5604-20 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2E77760.D | 1 | 05/06/12 | MAH | n/a | n/a | V2E3489 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | 0.23 | 1.0 | 0.22 | ug/l | J |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | 1.9 | 1.0 | 0.21 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | ND | 5.0 | 0.25 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.19 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-25S | | |
| **Lab Sample ID:** | JB5604-20 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 18.9 | 1.0 | 0.18 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | ND | 5.0 | 0.68 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | ND | 25 | 1.9 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | 0.48 | 5.0 | 0.33 | ug/l | J |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.32 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.21 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 0.23 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.17 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 111% | | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-25S | | |
| **Lab Sample ID:** | JB5604-20 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 116% | | 70-127% |
| 2037-26-5 | Toluene-D8 | 111% | | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 108% | | 76-118% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-25S | | |
| **Lab Sample ID:** | JB5604-20 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV98016.D | 1 | 05/09/12 | XPL | n/a | n/a | GUV3865 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 80% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-25S | | |
| **Lab Sample ID:** | JB5604-20 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Z23583.D | 1 | 05/09/12 | CS | 05/04/12 | OP56758 | G2Z975 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 79% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 71% | | 32-138% |
| 438-22-2 | 5a-Androstane | 80% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-25D | | |
| **Lab Sample ID:** | JB5604-21 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2E77761.D | 1 | 05/06/12 | MAH | n/a | n/a | V2E3489 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | 0.86 | 1.0 | 0.21 | ug/l | J |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | 1.1 | 5.0 | 0.25 | ug/l | J |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.19 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-25D | | |
| **Lab Sample ID:** | JB5604-21 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 80.2 | 1.0 | 0.18 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | ND | 5.0 | 0.68 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | 7.4 | 25 | 1.9 | ug/l | J |
| 994-05-8 | tert-Amyl Methyl Ether | 1.9 | 5.0 | 0.33 | ug/l | J |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | 0.45 | 1.0 | 0.32 | ug/l | J |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.21 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 0.23 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.17 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 111% | | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-25D | | |
| **Lab Sample ID:** | JB5604-21 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 114% | | 70-127% |
| 2037-26-5 | Toluene-D8 | 108% | | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 107% | | 76-118% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-25D | | |
| **Lab Sample ID:** | JB5604-21 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV98017.D | 1 | 05/09/12 | XPL | n/a | n/a | GUV3865 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 82% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-25D | | |
| **Lab Sample ID:** | JB5604-21 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Z23584.D | 1 | 05/09/12 | CS | 05/04/12 | OP56758 | G2Z975 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 82% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 74% | | 32-138% |
| 438-22-2 | 5a-Androstane | 81% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-26S | | |
| **Lab Sample ID:** | JB5604-22 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2E77762.D | 1 | 05/06/12 | MAH | n/a | n/a | V2E3489 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.21 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | 0.94 | 5.0 | 0.25 | ug/l | J |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.19 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-26S | | |
| **Lab Sample ID:** | JB5604-22 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 9.0 | 1.0 | 0.18 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | ND | 5.0 | 0.68 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | ND | 25 | 1.9 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 5.0 | 0.33 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.32 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.21 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 0.23 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.17 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 112% | | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-26S | | |
| **Lab Sample ID:** | JB5604-22 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 116% | | 70-127% |
| 2037-26-5 | Toluene-D8 | 109% | | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 106% | | 76-118% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-26S | | |
| **Lab Sample ID:** | JB5604-22 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV97958.D | 1 | 05/07/12 | XPL | n/a | n/a | GUV3863 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 79% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-26S | | |
| **Lab Sample ID:** | JB5604-22 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Z23612.D | 1 | 05/10/12 | CS | 05/04/12 | OP56759 | G2Z976 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 85% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 77% | | 32-138% |
| 438-22-2 | 5a-Androstane | 86% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-26D | | |
| **Lab Sample ID:** | JB5604-23 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2E77763.D | 1 | 05/06/12 | MAH | n/a | n/a | V2E3489 |
| Run #2 | 2E77764.D | 10 | 05/06/12 | MAH | n/a | n/a | V2E3489 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | 2.5 | 1.0 | 0.22 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.21 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | 11.1 | 5.0 | 0.25 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.19 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-26D | | |
| **Lab Sample ID:** | JB5604-23 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 1430 [a] | 10 | 1.8 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | ND | 5.0 | 0.68 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | 87.2 | 25 | 1.9 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | 15.0 | 5.0 | 0.33 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | 0.49 | 1.0 | 0.32 | ug/l | J |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.21 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 0.23 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.17 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 108% | 113% | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-26D | | |
| **Lab Sample ID:** | JB5604-23 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 116% | 117% | 70-127% |
| 2037-26-5 | Toluene-D8 | 107% | 111% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 108% | 108% | 76-118% |

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-26D | | |
| **Lab Sample ID:** | JB5604-23 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV97966.D | 1 | 05/07/12 | XPL | n/a | n/a | GUV3863 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 1.63 | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 81% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-26D | | |
| **Lab Sample ID:** | JB5604-23 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Z23613.D | 1 | 05/10/12 | CS | 05/04/12 | OP56759 | G2Z976 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 950 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.11 | 0.0037 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 94% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 85% | | 32-138% |
| 438-22-2 | 5a-Androstane | 93% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-RW-27 | | |
| **Lab Sample ID:** | JB5604-24 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2E77765.D | 1 | 05/06/12 | MAH | n/a | n/a | V2E3489 |
| Run #2 | 2E77766.D | 10 | 05/06/12 | MAH | n/a | n/a | V2E3489 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | 0.91 | 1.0 | 0.22 | ug/l | J |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | 0.58 | 1.0 | 0.21 | ug/l | J |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | 10.1 | 5.0 | 0.25 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.19 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | 1.2 | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-RW-27 | | |
| **Lab Sample ID:** | JB5604-24 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 989 [a] | 10 | 1.8 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | 0.84 | 5.0 | 0.68 | ug/l | J |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | 60.0 | 25 | 1.9 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | 10.2 | 5.0 | 0.33 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | 0.48 | 1.0 | 0.32 | ug/l | J |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.21 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 0.23 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.17 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 109% | 111% | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-RW-27 | | |
| **Lab Sample ID:** | JB5604-24 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 113% | 118% | 70-127% |
| 2037-26-5 | Toluene-D8 | 107% | 108% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 104% | 106% | 76-118% |

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-RW-27 | | |
| **Lab Sample ID:** | JB5604-24 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV97973.D | 1 | 05/08/12 | XPL | n/a | n/a | GUV3863 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 1.21 | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 81% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-RW-27 | | |
| **Lab Sample ID:** | JB5604-24 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Z23614.D | 1 | 05/10/12 | CS | 05/04/12 | OP56759 | G2Z976 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 85% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 73% | | 32-138% |
| 438-22-2 | 5a-Androstane | 82% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-750 BNS | | |
| **Lab Sample ID:** | JB5604-25 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2E77914.D | 1 | 05/11/12 | MAH | n/a | n/a | V2E3498 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.21 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | ND | 5.0 | 0.25 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.19 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-750 BNS | | |
| **Lab Sample ID:** | JB5604-25 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 0.77 | 1.0 | 0.18 | ug/l | J |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | 1.5 | 2.0 | 0.20 | ug/l | J |
| 91-20-3 | Naphthalene | ND | 5.0 | 0.68 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | ND | 25 | 1.9 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 5.0 | 0.33 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.32 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.21 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 0.23 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.17 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 113% | | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-750 BNS | | |
| **Lab Sample ID:** | JB5604-25 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 104% | | 70-127% |
| 2037-26-5 | Toluene-D8 | 113% | | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 108% | | 76-118% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-750 BNS | | |
| **Lab Sample ID:** | JB5604-25 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV98002.D | 1 | 05/08/12 | XPL | n/a | n/a | GUV3864 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 81% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-05D | | |
| **Lab Sample ID:** | JB5604-26 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2E77913.D | 1 | 05/11/12 | MAH | n/a | n/a | V2E3498 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.21 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | ND | 5.0 | 0.25 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | 0.30 | 1.0 | 0.19 | ug/l | J |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | 0.32 | 1.0 | 0.28 | ug/l | J |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-05D | | |
| **Lab Sample ID:** | JB5604-26 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 0.69 | 1.0 | 0.18 | ug/l | J |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | ND | 5.0 | 0.68 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | ND | 25 | 1.9 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 5.0 | 0.33 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | 0.47 | 1.0 | 0.32 | ug/l | J |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.21 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 0.23 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.17 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 113% | | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-05D | | |
| **Lab Sample ID:** | JB5604-26 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 102% | | 70-127% |
| 2037-26-5 | Toluene-D8 | 114% | | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 109% | | 76-118% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-05D | | |
| **Lab Sample ID:** | JB5604-26 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV98003.D | 1 | 05/08/12 | XPL | n/a | n/a | GUV3864 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 80% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-05D | | |
| **Lab Sample ID:** | JB5604-26 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Z23618.D | 1 | 05/10/12 | CS | 05/04/12 | OP56759 | G2Z976 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 84% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 72% | | 32-138% |
| 438-22-2 | 5a-Androstane | 81% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-05R | | |
| **Lab Sample ID:** | JB5604-27 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2E77915.D | 1 | 05/11/12 | MAH | n/a | n/a | V2E3498 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.21 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | ND | 5.0 | 0.25 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | 0.33 | 1.0 | 0.19 | ug/l | J |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-05R | | |
| **Lab Sample ID:** | JB5604-27 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.18 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | ND | 5.0 | 0.68 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | ND | 25 | 1.9 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 5.0 | 0.33 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.32 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.21 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 0.23 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.17 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 113% | | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-05R | | |
| **Lab Sample ID:** | JB5604-27 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 104% | | 70-127% |
| 2037-26-5 | Toluene-D8 | 113% | | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 107% | | 76-118% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-05R | | |
| **Lab Sample ID:** | JB5604-27 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV98004.D | 1 | 05/08/12 | XPL | n/a | n/a | GUV3864 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 81% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-05R | | |
| **Lab Sample ID:** | JB5604-27 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Z23619.D | 1 | 05/10/12 | CS | 05/04/12 | OP56759 | G2Z976 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 89% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 78% | | 32-138% |
| 438-22-2 | 5a-Androstane | 88% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-05S | | |
| **Lab Sample ID:** | JB5604-28 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2E77965.D | 1 | 05/12/12 | MAH | n/a | n/a | V2E3500 |
| Run #2 | 2E77966.D | 10 | 05/12/12 | MAH | n/a | n/a | V2E3500 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.21 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | 7.7 | 5.0 | 0.25 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.19 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-05S | | |
| **Lab Sample ID:** | JB5604-28 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 594 [a] | 10 | 1.8 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | ND | 5.0 | 0.68 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | 455 | 25 | 1.9 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | 11.9 | 5.0 | 0.33 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | 0.39 | 1.0 | 0.32 | ug/l | J |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.21 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 0.23 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.17 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 116% | 116% | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-05S | | |
| **Lab Sample ID:** | JB5604-28 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 115% | 115% | 70-127% |
| 2037-26-5 | Toluene-D8 | 114% | 116% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 109% | 110% | 76-118% |

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-05S | | |
| **Lab Sample ID:** | JB5604-28 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV97963.D | 1 | 05/07/12 | XPL | n/a | n/a | GUV3863 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 0.698 | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 81% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-05S | | |
| **Lab Sample ID:** | JB5604-28 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Z23620.D | 1 | 05/10/12 | CS | 05/04/12 | OP56759 | G2Z976 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 87% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 76% | | 32-138% |
| 438-22-2 | 5a-Androstane | 85% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 710 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5604-29 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2E77928.D | 1 | 05/11/12 | MAH | n/a | n/a | V2E3498 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.21 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | 0.27 | 5.0 | 0.25 | ug/l | J |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.19 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 710 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5604-29 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 1.2 | 1.0 | 0.18 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | ND | 5.0 | 0.68 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | ND | 25 | 1.9 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 5.0 | 0.33 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.32 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.21 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 0.23 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.17 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 113% | | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 710 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5604-29 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 110% | | 70-127% |
| 2037-26-5 | Toluene-D8 | 114% | | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 109% | | 76-118% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | 710 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5604-29 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV97984.D | 1 | 05/08/12 | XPL | n/a | n/a | GUV3864 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 81% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 710 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5604-29 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Z23621.D | 1 | 05/10/12 | CS | 05/04/12 | OP56759 | G2Z976 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 900 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.11 | 0.0039 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 85% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 77% | | 32-138% |
| 438-22-2 | 5a-Androstane | 86% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 711 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5604-30 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 3D73204.D | 1 | 05/11/12 | NT | n/a | n/a | V3D3165 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.21 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | ND | 5.0 | 0.25 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.19 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 711 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5604-30 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.18 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | ND | 5.0 | 0.68 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | ND | 25 | 1.9 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 5.0 | 0.33 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.32 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.21 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 0.23 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.17 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 93% | | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 711 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5604-30 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 89% | | 70-127% |
| 2037-26-5 | Toluene-D8 | 100% | | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | | 76-118% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 711 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5604-30 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV97985.D | 1 | 05/08/12 | XPL | n/a | n/a | GUV3864 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 81% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 711 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5604-30 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Z23622.D | 1 | 05/10/12 | CS | 05/04/12 | OP56759 | G2Z976 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 85% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 80% | | 32-138% |
| 438-22-2 | 5a-Androstane | 87% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 720 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5604-31 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 3D73205.D | 1 | 05/11/12 | NT | n/a | n/a | V3D3165 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.21 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | 0.80 | 5.0 | 0.25 | ug/l | J |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.19 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 720 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5604-31 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 0.40 | 1.0 | 0.18 | ug/l | J |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | ND | 5.0 | 0.68 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | ND | 25 | 1.9 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 5.0 | 0.33 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.32 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.21 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 0.23 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.17 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 93% | | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 720 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5604-31 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 89% | | 70-127% |
| 2037-26-5 | Toluene-D8 | 98% | | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 96% | | 76-118% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 720 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5604-31 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV98005.D | 1 | 05/08/12 | XPL | n/a | n/a | GUV3864 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 81% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 720 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5604-31 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Z23623.D | 1 | 05/10/12 | CS | 05/04/12 | OP56759 | G2Z976 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 90% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 83% | | 32-138% |
| 438-22-2 | 5a-Androstane | 91% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 721 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5604-32 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 3D73206.D | 1 | 05/11/12 | NT | n/a | n/a | V3D3165 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.21 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | ND | 5.0 | 0.25 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.19 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 721 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5604-32 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 0.21 | 1.0 | 0.18 | ug/l | J |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | ND | 5.0 | 0.68 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | ND | 25 | 1.9 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 5.0 | 0.33 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.32 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.21 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 0.23 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.17 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 93% | | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 721 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5604-32 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 87% | | 70-127% |
| 2037-26-5 | Toluene-D8 | 100% | | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | | 76-118% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 721 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5604-32 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV98006.D | 1 | 05/08/12 | XPL | n/a | n/a | GUV3864 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 81% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | 721 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5604-32 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Z23624.D | 1 | 05/10/12 | CS | 05/04/12 | OP56759 | G2Z976 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 85% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 77% | | 32-138% |
| 438-22-2 | 5a-Androstane | 86% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-13D | | |
| **Lab Sample ID:** | JB5604-33 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 3D73207.D | 1 | 05/11/12 | NT | n/a | n/a | V3D3165 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | 0.80 | 1.0 | 0.22 | ug/l | J |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.21 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | 2.5 | 5.0 | 0.25 | ug/l | J |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | 0.24 | 1.0 | 0.19 | ug/l | J |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-13D | | |
| **Lab Sample ID:** | JB5604-33 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 193 | 1.0 | 0.18 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | ND | 5.0 | 0.68 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | 36.2 | 25 | 1.9 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | 3.9 | 5.0 | 0.33 | ug/l | J |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | 0.88 | 1.0 | 0.32 | ug/l | J |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.21 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 0.23 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.17 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 93% | | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-13D | | |
| **Lab Sample ID:** | JB5604-33 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 90% | | 70-127% |
| 2037-26-5 | Toluene-D8 | 100% | | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | | 76-118% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-13D | | |
| **Lab Sample ID:** | JB5604-33 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV97969.D | 1 | 05/07/12 | XPL | n/a | n/a | GUV3863 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 0.263 | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 81% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-13D | | |
| **Lab Sample ID:** | JB5604-33 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Z23625.D | 1 | 05/10/12 | CS | 05/04/12 | OP56759 | G2Z976 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | 0.200 | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 90% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 81% | | 32-138% |
| 438-22-2 | 5a-Androstane | 87% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-13S | | |
| **Lab Sample ID:** | JB5604-34 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 3D73197.D | 5 | 05/11/12 | NT | n/a | n/a | V3D3165 |
| Run #2 | 3D73198.D | 50 | 05/11/12 | NT | n/a | n/a | V3D3165 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 50 | 25 | ug/l | |
| 71-43-2 | Benzene | 19.5 | 5.0 | 1.1 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 25 | 0.91 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 25 | 2.0 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 5.0 | 1.1 | ug/l | |
| 75-25-2 | Bromoform | ND | 20 | 1.2 | ug/l | |
| 74-83-9 | Bromomethane | ND | 10 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 50 | 15 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 25 | 1.7 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 25 | 1.0 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 25 | 1.2 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 5.0 | 0.97 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 5.0 | 1.1 | ug/l | |
| 75-00-3 | Chloroethane | ND | 5.0 | 1.8 | ug/l | |
| 67-66-3 | Chloroform | ND | 5.0 | 1.0 | ug/l | |
| 74-87-3 | Chloromethane | ND | 5.0 | 1.1 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 25 | 0.95 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 25 | 0.96 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | 50.9 | 25 | 1.3 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 50 | 6.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 5.0 | 1.0 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 10 | 1.0 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 5.0 | 0.92 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 5.0 | 1.4 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 5.0 | 1.3 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 25 | 1.6 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.0 | 0.96 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.0 | 0.90 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 5.0 | 1.4 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 5.0 | 1.1 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 5.0 | 1.6 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.0 | 1.1 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-13S | | |
| **Lab Sample ID:** | JB5604-34 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 25 | 0.97 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 25 | 1.3 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 25 | 1.8 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.0 | 1.1 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.0 | 0.93 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 5.0 | 1.1 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 25 | 1.2 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 10 | 0.97 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 25 | 0.94 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 4420 [a] | 50 | 9.2 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 25 | 6.1 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 25 | 2.3 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 10 | 1.0 | ug/l | |
| 91-20-3 | Naphthalene | ND | 25 | 3.4 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 25 | 0.87 | ug/l | |
| 100-42-5 | Styrene | ND | 25 | 1.1 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | 3130 | 130 | 9.3 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | 105 | 25 | 1.6 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 25 | 1.0 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 25 | 1.2 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.0 | 1.0 | ug/l | |
| 127-18-4 | Tetrachloroethene | 2.1 | 5.0 | 1.6 | ug/l | J |
| 108-88-3 | Toluene | ND | 5.0 | 0.73 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 25 | 3.4 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 25 | 0.75 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.0 | 1.2 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.0 | 1.2 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 5.0 | 1.1 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 25 | 1.8 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 25 | 2.7 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 10 | 0.90 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 10 | 1.1 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 5.0 | 1.3 | ug/l | |
| | m,p-Xylene | ND | 5.0 | 1.6 | ug/l | |
| 95-47-6 | o-Xylene | 1.1 | 5.0 | 0.87 | ug/l | J |
| 1330-20-7 | Xylene (total) | 1.1 | 5.0 | 0.87 | ug/l | J |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 92% | 93% | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-13S | | |
| **Lab Sample ID:** | JB5604-34 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 89% | 89% | 70-127% |
| 2037-26-5 | Toluene-D8 | 101% | 100% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 98% | 98% | 76-118% |

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-13S | | |
| **Lab Sample ID:** | JB5604-34 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV97972.D | 1 | 05/08/12 | XPL | n/a | n/a | GUV3863 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 5.06 | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 84% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-13S | | |
| **Lab Sample ID:** | JB5604-34 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Z23626.D | 1 | 05/10/12 | CS | 05/04/12 | OP56759 | G2Z976 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 890 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.11 | 0.0039 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 88% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 80% | | 32-138% |
| 438-22-2 | 5a-Androstane | 89% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-14D | | |
| **Lab Sample ID:** | JB5604-35 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 3D73199.D | 5 | 05/11/12 | NT | n/a | n/a | V3D3165 |
| Run #2 | 3D73200.D | 50 | 05/11/12 | NT | n/a | n/a | V3D3165 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 50 | 25 | ug/l | |
| 71-43-2 | Benzene | 44.3 | 5.0 | 1.1 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 25 | 0.91 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 25 | 2.0 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 5.0 | 1.1 | ug/l | |
| 75-25-2 | Bromoform | ND | 20 | 1.2 | ug/l | |
| 74-83-9 | Bromomethane | ND | 10 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 50 | 15 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 25 | 1.7 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 25 | 1.0 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 25 | 1.2 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 5.0 | 0.97 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 5.0 | 1.1 | ug/l | |
| 75-00-3 | Chloroethane | ND | 5.0 | 1.8 | ug/l | |
| 67-66-3 | Chloroform | ND | 5.0 | 1.0 | ug/l | |
| 74-87-3 | Chloromethane | ND | 5.0 | 1.1 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 25 | 0.95 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 25 | 0.96 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | 27.6 | 25 | 1.3 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 50 | 6.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 5.0 | 1.0 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 10 | 1.0 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 5.0 | 0.92 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 5.0 | 1.4 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 5.0 | 1.3 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 25 | 1.6 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.0 | 0.96 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.0 | 0.90 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 5.0 | 1.4 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 5.0 | 1.1 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 5.0 | 1.6 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.0 | 1.1 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-14D | | |
| **Lab Sample ID:** | JB5604-35 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 25 | 0.97 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 25 | 1.3 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 25 | 1.8 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.0 | 1.1 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.0 | 0.93 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 5.0 | 1.1 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 25 | 1.2 | ug/l | |
| 98-82-8 | Isopropylbenzene | 1.6 | 10 | 0.97 | ug/l | J |
| 99-87-6 | p-Isopropyltoluene | ND | 25 | 0.94 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 3890 [a] | 50 | 9.2 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 25 | 6.1 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 25 | 2.3 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 10 | 1.0 | ug/l | |
| 91-20-3 | Naphthalene | 11.6 | 25 | 3.4 | ug/l | J |
| 103-65-1 | n-Propylbenzene | ND | 25 | 0.87 | ug/l | |
| 100-42-5 | Styrene | ND | 25 | 1.1 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | 980 | 130 | 9.3 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | 43.9 | 25 | 1.6 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 25 | 1.0 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 25 | 1.2 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.0 | 1.0 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 5.0 | 1.6 | ug/l | |
| 108-88-3 | Toluene | ND | 5.0 | 0.73 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 25 | 3.4 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 25 | 0.75 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.0 | 1.2 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.0 | 1.2 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 5.0 | 1.1 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 25 | 1.8 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 25 | 2.7 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 10 | 0.90 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 10 | 1.1 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 5.0 | 1.3 | ug/l | |
| | m,p-Xylene | ND | 5.0 | 1.6 | ug/l | |
| 95-47-6 | o-Xylene | 10.1 | 5.0 | 0.87 | ug/l | |
| 1330-20-7 | Xylene (total) | 10.1 | 5.0 | 0.87 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 92% | 93% | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-14D | | |
| **Lab Sample ID:** | JB5604-35 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 89% | 89% | 70-127% |
| 2037-26-5 | Toluene-D8 | 101% | 101% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | 97% | 76-118% |

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-14D | | |
| **Lab Sample ID:** | JB5604-35 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV97971.D | 1 | 05/08/12 | XPL | n/a | n/a | GUV3863 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 4.25 | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 83% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-14D | | |
| **Lab Sample ID:** | JB5604-35 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Z23629.D | 1 | 05/10/12 | CS | 05/04/12 | OP56759 | G2Z976 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 87% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 76% | | 32-138% |
| 438-22-2 | 5a-Androstane | 85% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-14S | | |
| **Lab Sample ID:** | JB5604-36 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 3D73195.D | 1 | 05/11/12 | NT | n/a | n/a | V3D3165 |
| Run #2 | 3D73196.D | 10 | 05/11/12 | NT | n/a | n/a | V3D3165 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | 2.1 | 1.0 | 0.22 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.21 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | 7.1 | 5.0 | 0.25 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.19 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-14S | | |
| **Lab Sample ID:** | JB5604-36 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 1350 [a] | 10 | 1.8 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | ND | 5.0 | 0.68 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | 80.9 | 25 | 1.9 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | 14.1 | 5.0 | 0.33 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.32 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.21 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 0.23 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | 0.98 | 1.0 | 0.17 | ug/l | J |
| 1330-20-7 | Xylene (total) | 0.98 | 1.0 | 0.17 | ug/l | J |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 92% | 93% | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-14S | | |
| **Lab Sample ID:** | JB5604-36 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 89% | 88% | 70-127% |
| 2037-26-5 | Toluene-D8 | 100% | 100% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | 98% | 76-118% |

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-14S | | |
| **Lab Sample ID:** | JB5604-36 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV97970.D | 1 | 05/07/12 | XPL | n/a | n/a | GUV3863 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 1.43 | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 81% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-14S | | |
| **Lab Sample ID:** | JB5604-36 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Z23630.D | 1 | 05/10/12 | CS | 05/04/12 | OP56759 | G2Z976 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 89% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 78% | | 32-138% |
| 438-22-2 | 5a-Androstane | 89% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey

ACCUTEST LABORATORIES



# Misc. Forms

## Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

GW

L

# Shell Oil Products Chain Of Custody Record

URS

**LAB (LOCATION)**
- [x] ACCUTEST ( )
- [ ] CALSCIENCE ( )
- [ ] TESTAMERICA ( )
- [ ] Other ( )

Lab Vendor # 1813640 (Accutest)

**Please Check Appropriate Box:**
- [x] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [ ] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER

**Print Bill To Contact Name:** Adriane Rogers

**PO #**

**INCIDENT # (ENV SERVICES):** 9 7 4 3 6 9 7 7

**SAP #** 1 3 7 6 7 5

[ ] CHECK IF NO INCIDENT # APPLIES

DATE: 5-2-12

Page 2 of 8

SAMPLING COMPANY: URS CORPORATION

LOG CODE:

ADDRESS: 12420 Milestone Center Drive Suite 150, Germantown, MD 20876

PROJECT CONTACT (Hardcopy or PDF Report to): Adriane Rogers

TELEPHONE: 301-820-3000 FAX: 301-820-3409 Bill To Contact E-MAIL: adriane.rogers@urs.com

SITE ADDRESS: Street and City: 15541 New Hampshire Avenue, Silver Spring State: MD

GLOBAL ID NO.:

EDF DELIVERABLE TO (Name, Company, Office Location): Adriane Rogers PHONE NO.: 301-820-3241 E-MAIL: adriane.rogers@urs.com

CONSULTANT PROJECT NO.: 137675

SAMPLER NAME(S) (Print): Robert Burns

LAB USE ONLY: JB5604

TURNAROUND TIME (CALENDAR DAYS): [x] STANDARD (14 DAY) [ ] 5 DAYS [ ] 3 DAYS [ ] 2 DAYS [ ] 24 HOURS [ ] RESULTS NEEDED ON WEEKEND

[ ] LA - RWQCB REPORT FORMAT [ ] UST AGENCY:

DELIVERABLES: [ ] LEVEL 1 [x] LEVEL 2 [ ] LEVEL 3 [ ] LEVEL 4 [ ] OTHER (SPECIFY)

TEMPERATURE ON RECEIPT C°: Cooler #1 Cooler #2 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES: Rec'd on Ice at 3.0°C
Master # 7955 4418 8742
All Coolers

- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [ ] RECEIPT VERIFICATION REQUESTED
- [ ] PROVIDE LEDD DISK

REQUESTED ANALYSIS

| LAB USE ONLY | Field Sample Identification | SAMPLING DATE | SAMPLING TIME | MATRIX | PRESERVATIVE HCL | HNO3 | H2SO4 | NONE | OTHER | NO. OF CONT. | BTEX, MTBE, Oxy 5 (8260B) | TPH-GRO (Full List) | TPH-DRO 8015 | FIELD NOTES: Container PID Readings or Laboratory Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | 48 FLR |
| -1 | 137675 - MW-06D | 5-2-12 | 1535 | GW | X | | | | | 7 | X | X | X | 2155 |
| -2 | 137675 - MW-06R | 5-2-12 | 1525 | GW | X | | | | | 7 | X | X | X | 2156 |
| -3 | 137675 - MW-06S | 5-2-12 | 1500 | GW | X | | | | | 1 | X | | | 2157 |
| -4 | 137675 - MW-07D | 5-2-12 | 1500 | GW | X | | | | | 7 | X | X | X | 2163 |
| -5 | 137675 - MW-07S | 5-2-12 | 1500 | GW | X | | | | | 7 | X | X | X | |
| | 137675 - MW-08D | | | GW | X | | | | | 1 | X | | | |
| | 137675 - MW-08S | | | GW | X | | | | | 1 | X | | | |
| | 137675 - MW-09D | | | GW | X | | | | | 1 | X | | | |
| | 137675 - MW-09S | | | GW | X | | | | | 1 | X | | | |
| -6 | 137675 - MW-11D | 5-1-12 | 1650 | GW | X | | | | | 7 | X | X | X | |

| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
|---|---|---|---|
| | FEDEX | | |
| FEDEX | | 5/3/12 | 10:00 |
| | | | |

05/2/06 Revision

1A

4.1

4

**JB5604: Chain of Custody**
**Page 1 of 8**

# Shell Oil Products Chain Of Custody Record

URS

**LAB (LOCATION)**
- [x] ACCUTEST ( )
- [ ] CALSCIENCE ( )
- [ ] TESTAMERICA ( )
- [ ] Other ( )

Lab Vendor # 1813640 (Accutest)

**Please Check Appropriate Box:**
- [x] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [ ] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER

Print Bill To Contact Name: Adriane Rogers

INCIDENT # (ENV SERVICES): 9 7 4 3 6 9 7 7

[ ] CHECK IF NO INCIDENT # APPLIES

DATE: 5-2-12

PO #

SAP #: 1 3 7 6 7 5

Page 2 of 6

SAMPLING COMPANY: URS CORPORATION

LOG CODE:

SITE ADDRESS: Street and City: 15541 New Hampshire Avenue, Silver Spring

State: MD

GLOBAL ID NO.:

ADDRESS: 12420 Milestone Center Drive Suite 150, Germantown, MD 20876

EDF DELIVERABLE TO (Name, Company, Office Location): Adriane Rogers

PHONE NO.: 301-820-3241

E-MAIL: adriane.rogers@urs.com

CONSULTANT PROJECT NO.: 137675

PROJECT CONTACT (Hardcopy or PDF Report to): Adriane Rogers

TELEPHONE: 301-820-3000

FAX: 301-820-3409

Bill To Contact E-MAIL: adriane.rogers@urs.com

SAMPLER NAME(S) (Print): Robert Burns

LAB USE ONLY: JB5604

TURNAROUND TIME (CALENDAR DAYS):
- [x] STANDARD (14 DAY)
- [ ] 5 DAYS
- [ ] 3 DAYS
- [ ] 2 DAYS
- [ ] 24 HOURS
- [ ] RESULTS NEEDED ON WEEKEND

- [ ] LA - RWQCB REPORT FORMAT
- [ ] UST AGENCY:

DELIVERABLES: [ ] LEVEL 1 [x] LEVEL 2 [ ] LEVEL 3 [ ] LEVEL 4 [ ] OTHER (SPECIFY)

TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES:
MASTER # 8996 7737 8742

- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [ ] RECEIPT VERIFICATION REQUESTED
- [ ] PROVIDE LEDD DISK

REQUESTED ANALYSIS

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

Container PID Readings or Laboratory Notes

| LAB USE ONLY | Field Sample Identification | SAMPLING DATE | SAMPLING TIME | MATRIX | PRESERVATIVE HCL | HNO3 | H2SO4 | NONE | OTHER | NO. OF CONT. | BTEX, MTBE, Oxy 5 (8260B) Full List | TPH-GRO | TPH-DRO-8015 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -7 | 137675 - MW-11R | 5-2-12 | 1030 | GW | X | | | | | 7 | X | X | X |
| -8 | 137675 - MW-11S | 5-2-12 | 1100 | GW | X | | | | | 7 | X | X | X |
| -9 | 137675 - MW-12 | 5-2-12 | 1105 | GW | X | | | | | 7 | X | X | X |
| ~~-10~~ | 137675 - MW-13D -33 | 5-2-12 | 1030 | GW | X | | | | | 7 | X | X | X |
| ~~-11~~ | 137675 - MW-13S -34 | 5-2-12 | 1000 | GW | X | | | | | 7 | X | X | X |
| ~~-12~~ | 137675 - MW-14D -35 | 5-2-12 | 1200 | GW | X | | | | | 7 | X | X | X |
| ~~-13~~ | 137675 - MW-14S -36 | 5-2-12 | 1126 | GW | X | | | | | 7 | X | X | X |
| -10 | 137675 - MW-15D -10 | 5-2-12 | 1444 | GW | X | | | | | 7 | X | X | X |
| -11 | 137675 - MW-15S -11 | 5-2-12 | 1424 | GW | X | | | | | 7 | X | X | X |
| -12 | 137675 - MW-16D -12 | 5-2-12 | 1350 | GW | X | | | | | 7 | X | X | X |

| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
|---|---|---|---|
| | FedEx | | |
| FedEx | | 5/3/12 | 10:00 |
| | | | |

05/2/06 Revision

**JB5604: Chain of Custody**
**Page 2 of 8**

# Shell Oil Products Chain Of Custody Record

URS

LAB (LOCATION)
- [x] ACCUTEST ( )
- [ ] CALSCIENCE ( )
- [ ] TESTAMERICA ( )
- [ ] Other ( )

Lab Vendor # 1813640 (Accutest)

Please Check Appropriate Box:
- [x] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [ ] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER

Print Bill To Contact Name: Adriane Rogers

PO #

INCIDENT # (ENV SERVICES): 9 7 4 3 6 9 7 7

SAP #: 1 3 7 6 7 5

[ ] CHECK IF NO INCIDENT # APPLIES

DATE: 5-2-12

Page 3 of 8

SAMPLING COMPANY: URS CORPORATION

LOG CODE:

ADDRESS: 12420 Milestone Center Drive Suite 150, Germantown, MD 20876

PROJECT CONTACT (Hardcopy or PDF Report to): Adriane Rogers

TELEPHONE: 301-820-3000

FAX: 301-820-3409

Bill To Contact E-MAIL: adriane.rogers@urs.com

SITE ADDRESS: Street and City: 15541 New Hampshire Avenue, Silver Spring

State: MD

GLOBAL ID NO.:

EDF DELIVERABLE TO (Name, Company, Office Location): Adriane Rogers

PHONE NO.: 301-820-3241

E-MAIL: adriane.rogers@urs.com

CONSULTANT PROJECT NO.: 137675

SAMPLER NAME(S) (Print): Robert Burns

LAB USE ONLY: JB5604

TURNAROUND TIME (CALENDAR DAYS):
- [x] STANDARD (14 DAY)
- [ ] 5 DAYS
- [ ] 3 DAYS
- [ ] 2 DAYS
- [ ] 24 HOURS
- [ ] RESULTS NEEDED ON WEEKEND

- [ ] LA - RWQCB REPORT FORMAT
- [ ] UST AGENCY:

DELIVERABLES:
- [ ] LEVEL 1
- [x] LEVEL 2
- [ ] LEVEL 3
- [ ] LEVEL 4
- [ ] OTHER (SPECIFY)

TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [ ] RECEIPT VERIFICATION REQUESTED
- [ ] PROVIDE LEDD DISK

REQUESTED ANALYSIS

| LAB USE ONLY | Field Sample Identification | | SAMPLING DATE | SAMPLING TIME | MATRIX | PRESERVATIVE HCL | HNO3 | H2SO4 | NONE | OTHER | NO. OF CONT. | BTEX, MTBE, Oxy 5 (8260B) Full list | TPH-GRO | TPH-DRO 8015 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -17 | 137675 - MW-16S | -13 | 5-2-12 | 1330 | GW | X | | | | | 7 | X | X | X |
| -18 | 137675 - MW-17D | -14 | 5-2-12 | 1555 | GW | X | | | | | 7 | X | X | X |
| -19 | 137675 - MW-17S | -15 | 5-2-12 | 1626 | GW | X | | | | | 7 | X | X | X |
| -20 | 137675 - MW-17W | -16 | 5-2-12 | 1140 | GW | X | | | | | 7 | X | X | X |
| -21 | 137675 - MW-18 | -17 | 5-2-12 | 1550 | GW | X | | | | | 7 | X | X | X |
| -22 | 137675 - MW-24S | -18 | 5-2-12 | 1732 | GW | X | | | | | 7 | X | X | X |
| -23 | 137675 - MW-24D | -19 | 5-2-12 | 0900 | GW | X | | | | | 7 | X | X | X |
| -24 | 137675 - MW-25S | -20 | 5-2-12 | 0855 | GW | X | | | | | 7 | X | X | X |
| -25 | 137675 - MW-25D | -21 | 5-2-12 | 0920 | GW | X | | | | | 7 | X | X | X |
| -26 | 137675 - MW-26S | -22 | 5-2-12 | 1112 | GW | X | | | | | 7 | X | X | X |

REQUESTED ANALYSIS: UNIT COST | NON-UNIT COST

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

Container PID Readings or Laboratory Notes

| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
|---|---|---|---|
| | FedEx | | |
| FedEx | | 5/3/12 | 10:00 |
| | | | |

05/2/06 Revision

JB5604: Chain of Custody
Page 3 of 8

# Shell Oil Products Chain Of Custody Record

URS

**LAB (LOCATION)**
- [x] ACCUTEST ( )
- [ ] CALSCIENCE ( )
- [ ] TESTAMERICA ( )
- [ ] Other ( )

Lab Vendor # 1813640 (Accutest)

**Please Check Appropriate Box:**
- [x] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [ ] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER

Print Bill To Contact Name: Adriane Rogers

INCIDENT # (ENV SERVICES): 9 7 4 3 6 9 7 7

[ ] CHECK IF NO INCIDENT # APPLIES

DATE: 5-2-12

PO #

SAP #: 1 3 7 6 7 5

Page 4 of 6

SAMPLING COMPANY: URS CORPORATION

LOG CODE:

SITE ADDRESS: Street and City: 15541 New Hampshire Avenue, Silver Spring

State: MD

GLOBAL ID NO.:

ADDRESS: 12420 Milestone Center Drive Suite 150, Germantown, MD 20876

EDF DELIVERABLE TO (Name, Company, Office Location): Adriane Rogers

PHONE NO.: 301-820-3241

E-MAIL: adriane.rogers@urs.com

CONSULTANT PROJECT NO.: 137675

PROJECT CONTACT (Hardcopy or PDF Report to): Adriane Rogers

TELEPHONE: 301-820-3000

FAX: 301-820-3409

Bill To Contact E-MAIL: adriane.rogers@urs.com

SAMPLER NAME(S) (Print): Robert Burns

LAB USE ONLY: JB5604

TURNAROUND TIME (CALENDAR DAYS):
- [x] STANDARD (14 DAY)
- [ ] 5 DAYS
- [ ] 3 DAYS
- [ ] 2 DAYS
- [ ] 24 HOURS
- [ ] RESULTS NEEDED ON WEEKEND

- [ ] LA - RWQCB REPORT FORMAT
- [ ] UST AGENCY:

DELIVERABLES: [ ] LEVEL 1 [x] LEVEL 2 [ ] LEVEL 3 [ ] LEVEL 4 [ ] OTHER (SPECIFY)

TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

**SPECIAL INSTRUCTIONS OR NOTES :**
- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [ ] RECEIPT VERIFICATION REQUESTED
- [ ] PROVIDE LEDD DISK

REQUESTED ANALYSIS — UNIT COST / NON-UNIT COST

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

Container PID Readings or Laboratory Notes

| LAB USE ONLY | Field Sample Identification | SAMPLING DATE | SAMPLING TIME | MATRIX | HCL | HNO3 | H2SO4 | NONE | OTHER | NO. OF CONT. | BTEX, MTBE, Oxy 5 (8260B) Full list | TPH-GRO | TPH-DRO SGC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SC | 137675 - MW-26D -23 | 5/2/12 | 1035 | GW | X | | | | | 7 | X | X | X |
| | 137675 - RW-27 -24 | 5/2/12 | 1050 | GW | X | | | | | 7 | X | X | X |
| | 137675 - RW-03 | | | GW | X | | | | | 2 | X | | |
| | 137675 - RW-10 | | | GW | X | | | | | 2 | X | | |
| | 137675 - RW-19 | | | GW | X | | | | | 2 | X | | |
| | 137675 - RW-20 | | | GW | X | | | | | 2 | X | | |
| | 137675 - RW-21 | | | GW | X | | | | | 2 | X | | |
| | 137675 - RW-22 | | | GW | X | | | | | 2 | X | | |
| | 137675 - RW-23 | | | GW | X | | | | | 2 | X | | |
| | 137675 - TF-01 | | | GW | X | | | | | 2 | X | | |
| | 137675 - TF-02 | | | GW | X | | | | | 2 | X | | |

| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
|---|---|---|---|
| | FedEx | | |
| FedEx | | 5/3/12 | 10:00 |
| | | | |

05/2/06 Revision

**JB5604: Chain of Custody**
**Page 4 of 8**

# Shell Oil Products Chain Of Custody Record

URS

LAB (LOCATION)
- [x] ACCUTEST ( )
- [ ] CALSCIENCE ( )
- [ ] TESTAMERICA ( )
- [ ] Other ( )

Lab Vendor # 1813640 (Accutest)

Please Check Appropriate Box:
- [x] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [ ] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER

Print Bill To Contact Name: Adriane Rogers

INCIDENT # (ENV SERVICES): 9 7 4 3 6 9 7 7

PO #

SAP # 1 3 7 6 7 5

[ ] CHECK IF NO INCIDENT # APPLIES

DATE: 5-3-12

Page 1 of 8

SAMPLING COMPANY: URS CORPORATION

LOG CODE:

SITE ADDRESS: Street and City: 15541 New Hampshire Avenue, Silver Spring

State: MD

GLOBAL ID NO.:

ADDRESS: 12420 Milestone Center Drive Suite 150, Germantown, MD 20876

EDF DELIVERABLE TO (Name, Company, Office Location): Adriane Rogers

PHONE NO.: 301-820-3241

E-MAIL: adriane.rogers@urs.com

CONSULTANT PROJECT NO.: 137675

PROJECT CONTACT (Hardcopy or PDF Report to): Adriane Rogers

TELEPHONE: 301-820-3000

FAX: 301-820-3409

Bill To Contact E-MAIL: adriane.rogers@urs.com

SAMPLER NAME(S) (Print): Dillon Baker

LAB USE ONLY: JB5604

TURNAROUND TIME (CALENDAR DAYS):
- [x] STANDARD (14 DAY)
- [ ] 5 DAYS
- [ ] 3 DAYS
- [ ] 2 DAYS
- [ ] 24 HOURS
- [ ] RESULTS NEEDED ON WEEKEND

- [ ] LA - RWQCB REPORT FORMAT
- [ ] UST AGENCY:

DELIVERABLES:
- [ ] LEVEL 1
- [x] LEVEL 2
- [ ] LEVEL 3
- [ ] LEVEL 4
- [ ] OTHER (SPECIFY)

TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES:
- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [ ] RECEIPT VERIFICATION REQUESTED
- [ ] PROVIDE LEDD DISK

REQUESTED ANALYSIS

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

Container PID Readings or Laboratory Notes

| LAB USE ONLY | Field Sample Identification | SAMPLING DATE | SAMPLING TIME | MATRIX | HCL | HNO3 | H2SO4 | NONE | OTHER | NO. OF CONT. | BTEX, MTBE, Oxy 5 (8260B) | TPH - GRO Fol/Sf | TPH - DRO 8015 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ~~137675 - 750 BND~~ | NS | | GW | X | | | | | 0 | X | | |
| | ~~137675 - 750 BNR~~ | NS | | GW | X | | | | | 0 | X | | |
| 52 | 137675 - 750 BNS -25 | 5/02 | 13:45 | GW | X | | | | | 2 | X | X | |
| | ~~137675 - 730 BND~~ | NS | | GW | X | | | | | 0 | X | | |
| | ~~137675 - 730 BNS~~ | NS | | GW | X | | | | | 0 | X | | |
| | ~~137675 - MW-02~~ | NS | | GW | X | | | | | 0 | X | | |
| | ~~137675 - MW-04~~ | NS | | GW | X | | | | | 0 | X | | |
| -30 | 137675 - MW-05D -26 | 5/02 | 1430 | GW | X | | | | | 7 | X | X | X |
| 30 | 137675 - MW-05R -27 | 5/02 | 1435 | GW | X | | | | | 7 | X | X | X |
| -31 | 137675 - MW-05S -28 | 5/02 | 1530 | GW | X | | | | | 7 | X | X | X |

| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
|---|---|---|---|
| | FedEx | | |
| FedEx | | 5/3/12 | 10:00 |
| | | | |

05/2/06 Revision

4.1

4

# Shell Oil Products Chain Of Custody Record

URS

LAB (LOCATION)
- [x] ACCUTEST ( )
- [ ] CALSCIENCE ( )
- [ ] TESTAMERICA ( )
- [ ] Other ( )

Lab Vendor # 1813640 (Accutest)

Please Check Appropriate Box:
- [x] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [ ] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER

Print Bill To Contact Name: Adriane Rogers

PO #

INCIDENT # (ENV SERVICES): 9 7 4 3 6 9 7 7

SAP #: 1 3 7 6 7 5

[ ] CHECK IF NO INCIDENT # APPLIES

DATE: 5/02/2012

Page 6 of 6

SAMPLING COMPANY: URS CORPORATION

LOG CODE:

ADDRESS: 12420 Milestone Center Drive Suite 150, Germantown, MD 20876

PROJECT CONTACT (Hardcopy or PDF Report to): Adriane Rogers

TELEPHONE: 301-820-3000

FAX: 301-820-3409

Bill To Contact E-MAIL: adriane.rogers@urs.com

SITE ADDRESS: Street and City: 15541 New Hampshire Avenue, Silver Spring

State: MD

GLOBAL ID NO.:

EDF DELIVERABLE TO (Name, Company, Office Location): Adriane Rogers

PHONE NO.: 301-820-3241

E-MAIL: adriane.rogers@urs.com

CONSULTANT PROJECT NO.: 137675

SAMPLER NAME(S) (Print): Dixon Baker

LAB USE ONLY: JB5604

TURNAROUND TIME (CALENDAR DAYS):
- [x] STANDARD (14 DAY)
- [ ] 5 DAYS
- [ ] 3 DAYS
- [ ] 2 DAYS
- [ ] 24 HOURS
- [ ] RESULTS NEEDED ON WEEKEND

- [ ] LA - RWQCB REPORT FORMAT
- [ ] UST AGENCY:

DELIVERABLES:
- [ ] LEVEL 1
- [x] LEVEL 2
- [ ] LEVEL 3
- [ ] LEVEL 4
- [ ] OTHER (SPECIFY)

TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [ ] RECEIPT VERIFICATION REQUESTED
- [ ] PROVIDE LEDD DISK

REQUESTED ANALYSIS

| LAB USE ONLY | Field Sample Identification | SAMPLING DATE | SAMPLING TIME | MATRIX | PRESERVATIVE HCL | HNO3 | H2SO4 | NONE | OTHER | NO. OF CONT. | BTEX, MTBE, Oxy 5 (8260B) | TPH GRO | TPH DRO 8015 | UNIT COST | NON-UNIT COST | FIELD NOTES: Container PID Readings or Laboratory Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -33 | 710 Bryants Nursery -29 | 5/02 | 11:40 | GW | X | | | | | 7 | X | X | X | | | |
| -34 | 711 Bryants Nursery -30 | 5/02 | 11:55 | GW | X | | | | | 7 | X | X | X | | | |
| -35 | 720 Bryants Nursery -31 | 5/02 | 12:40 | GW | X | | | | | 7 | X | X | X | | | |
| -36 | 721 Bryants Nursery -32 | 5/02 | 12:15 | GW | X | | | | | 7 | X | X | X | | | |
| | ~~731 Bryants Nursery~~ | N/S | | GW | X | | | | | | X | | | | | |
| | ~~741 Bryants Nursery~~ | N/S | | GW | X | | | | | | X | | | | | |

TEMPERATURE ON RECEIPT C°

| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
|---|---|---|---|
| | FedEx | | |
| FedEx | [signature] | 5/3/12 | 10:00 |
| | | | |

05/2/06 Revision

JB5604: Chain of Custody
Page 6 of 8

# Accutest Laboratories Sample Receipt Summary

**Accutest Job Number:** JB5604 **Client:** URS CORP. **Project:** SILVER SPRING, MD

**Date / Time Received:** 5/3/2012 10:00 **Delivery Method:** FedEx **Airbill #'s:** 795544788742, 899677378742

**Cooler Temps (Initial/Adjusted):** #1: (3/3); #2: (3/3); #3: (3/3); #4: (3/3); 0#5: (3/3); 0

| Cooler Security | Y | N | | Y | N |
|---|---|---|---|---|---|
| 1. Custody Seals Present: | ☑ | ☐ | 3. COC Present: | ☑ | ☐ |
| 2. Custody Seals Intact: | ☑ | ☐ | 4. Smpl Dates/Time OK | ☑ | ☐ |

| Cooler Temperature | Y | N |
|---|---|---|
| 1. Temp criteria achieved: | ☑ | ☐ |
| 2. Cooler temp verification: | | |
| 3. Cooler media: | | |
| 4. No, Coolers | | |

| Quality Control Preservation | Y | N | N/A |
|---|---|---|---|
| 1. Trip Blank present / cooler: | ☐ | ☑ | ☐ |
| 2. Trip Blank listed on COC: | ☐ | ☑ | ☐ |
| 3. Samples preserved properly: | ☑ | ☐ | |
| 4. VOCs headspace free: | ☑ | ☐ | ☐ |

| Sample Integrity - Documentation | Y | N |
|---|---|---|
| 1. Sample labels present on bottles: | ☑ | ☐ |
| 2. Container labeling complete: | ☑ | ☐ |
| 3. Sample container label / COC agree: | ☐ | ☑ |

| Sample Integrity - Condition | Y | N |
|---|---|---|
| 1. Sample recvd within HT: | ☑ | ☐ |
| 2. All containers accounted for: | ☑ | ☐ |
| 3. Condition of sample: | Intact | |

| Sample Integrity - Instructions | Y | N | N/A |
|---|---|---|---|
| 1. Analysis requested is clear: | ☑ | ☐ | |
| 2. Bottles received for unspecified tests | ☐ | ☑ | |
| 3. Sufficient volume recvd for analysis: | ☑ | ☐ | |
| 4. Compositing instructions clear: | ☐ | ☐ | ☑ |
| 5. Filtering instructions clear: | ☐ | ☐ | ☑ |

Comments -18 "MW 24S", LABEL TIME 0730, NOT 1730, DATE AND ID OK.

NOTE: THIS PROJECT WAS ORIGINALLY A "CSR" PROBLEM NOTE, AS VOLUMES FOR SAMPLES "MW-13D", "MW-13S", "MW-14D" AND "MW-14S" WERE NOT RECEIVED. HOWEVER, THESE SAMPLES ARRIVED IN ANOTHER FEDEX SHIPMENT ON 5/3/12 @ 1900 HRS. THESE 4 SAMPLES WERE ADDED AS SAMPLES -33, -34, -35, AND -36. (SORRY THE COC'S ARE SUCH A MESS).

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

# Sample Receipt Summary - Problem Resolution

**Accutest Job Number:** JB5604

**CSR:** Michelle **Response Date:** 5/7/2012

**Response:** -18, please use time of 1730 per Cory Lavoie

NOTE: please proceed as noted



Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

New Jersey

ACCUTEST LABORATORIES



# GC/MS Volatiles

## QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

# Method Blank Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2E3489-MB | 2E77746.D | 1 | 05/05/12 | MAH | n/a | n/a | V2E3489 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5604-11, JB5604-15, JB5604-16, JB5604-17, JB5604-18, JB5604-19, JB5604-20, JB5604-21, JB5604-22, JB5604-23, JB5604-24

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.21 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | ND | 5.0 | 0.25 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.19 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |

# Method Blank Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2E3489-MB | 2E77746.D | 1 | 05/05/12 | MAH | n/a | n/a | V2E3489 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5604-11, JB5604-15, JB5604-16, JB5604-17, JB5604-18, JB5604-19, JB5604-20, JB5604-21, JB5604-22, JB5604-23, JB5604-24

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.18 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | ND | 5.0 | 0.68 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | ND | 25 | 1.9 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 5.0 | 0.33 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.32 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.21 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 0.23 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.17 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

# Method Blank Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2E3489-MB | 2E77746.D | 1 | 05/05/12 | MAH | n/a | n/a | V2E3489 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5604-11, JB5604-15, JB5604-16, JB5604-17, JB5604-18, JB5604-19, JB5604-20, JB5604-21, JB5604-22, JB5604-23, JB5604-24

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 110% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 112% | 70-127% |
| 2037-26-5 | Toluene-D8 | 108% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 108% | 76-118% |

# Method Blank Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V4B790-MB | 4B17994.D | 1 | 05/10/12 | TYG | n/a | n/a | V4B790 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5604-2, JB5604-3, JB5604-4, JB5604-5, JB5604-6, JB5604-7

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.21 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | ND | 5.0 | 0.25 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.19 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |

# Method Blank Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V4B790-MB | 4B17994.D | 1 | 05/10/12 | TYG | n/a | n/a | V4B790 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5604-2, JB5604-3, JB5604-4, JB5604-5, JB5604-6, JB5604-7

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.18 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | ND | 5.0 | 0.68 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | ND | 25 | 1.9 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 5.0 | 0.33 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.32 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.21 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 0.23 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.17 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

# Method Blank Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V4B790-MB | 4B17994.D | 1 | 05/10/12 | TYG | n/a | n/a | V4B790 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5604-2, JB5604-3, JB5604-4, JB5604-5, JB5604-6, JB5604-7

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 105% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 102% | 70-127% |
| 2037-26-5 | Toluene-D8 | 107% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | 76-118% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---|---|---|---|---|---|
| | Total TIC, Volatile | | 0 | ug/l | |

# Method Blank Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V3D3165-MB1 | 3D73192.D | 1 | 05/11/12 | NT | n/a | n/a | V3D3165 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5604-30, JB5604-31, JB5604-32, JB5604-33, JB5604-34, JB5604-35, JB5604-36

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.21 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | ND | 5.0 | 0.25 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.19 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |

# Method Blank Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V3D3165-MB1 | 3D73192.D | 1 | 05/11/12 | NT | n/a | n/a | V3D3165 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5604-30, JB5604-31, JB5604-32, JB5604-33, JB5604-34, JB5604-35, JB5604-36

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.18 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | ND | 5.0 | 0.68 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | ND | 25 | 1.9 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 5.0 | 0.33 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.32 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.21 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 0.23 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.17 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

# Method Blank Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V3D3165-MB1 | 3D73192.D | 1 | 05/11/12 | NT | n/a | n/a | V3D3165 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5604-30, JB5604-31, JB5604-32, JB5604-33, JB5604-34, JB5604-35, JB5604-36

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 93% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 89% | 70-127% |
| 2037-26-5 | Toluene-D8 | 100% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 98% | 76-118% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---|---|---|---|---|---|
| | Total TIC, Volatile | | 0 | ug/l | |

# Method Blank Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2E3498-MB | 2E77910.D | 1 | 05/11/12 | MAH | n/a | n/a | V2E3498 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5604-1, JB5604-8, JB5604-9, JB5604-10, JB5604-11, JB5604-25, JB5604-26, JB5604-27, JB5604-29

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.21 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | ND | 5.0 | 0.25 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.19 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |

# Method Blank Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2E3498-MB | 2E77910.D | 1 | 05/11/12 | MAH | n/a | n/a | V2E3498 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5604-1, JB5604-8, JB5604-9, JB5604-10, JB5604-11, JB5604-25, JB5604-26, JB5604-27, JB5604-29

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.18 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | ND | 5.0 | 0.68 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | ND | 25 | 1.9 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 5.0 | 0.33 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.32 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.21 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 0.23 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.17 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

# Method Blank Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2E3498-MB | 2E77910.D | 1 | 05/11/12 | MAH | n/a | n/a | V2E3498 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5604-1, JB5604-8, JB5604-9, JB5604-10, JB5604-11, JB5604-25, JB5604-26, JB5604-27, JB5604-29

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 113% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 103% | 70-127% |
| 2037-26-5 | Toluene-D8 | 113% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 107% | 76-118% |

# Method Blank Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2E3500-MB | 2E77954.D | 1 | 05/12/12 | MAH | n/a | n/a | V2E3500 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5604-12, JB5604-13, JB5604-14, JB5604-28

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.21 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | ND | 5.0 | 0.25 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.19 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |

# Method Blank Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2E3500-MB | 2E77954.D | 1 | 05/12/12 | MAH | n/a | n/a | V2E3500 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5604-12, JB5604-13, JB5604-14, JB5604-28

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.18 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | ND | 5.0 | 0.68 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | ND | 25 | 1.9 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 5.0 | 0.33 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.32 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.21 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 0.23 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.17 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

# Method Blank Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2E3500-MB | 2E77954.D | 1 | 05/12/12 | MAH | n/a | n/a | V2E3500 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5604-12, JB5604-13, JB5604-14, JB5604-28

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 113% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 114% | 70-127% |
| 2037-26-5 | Toluene-D8 | 116% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 110% | 76-118% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---|---|---|---|---|---|
| | Total TIC, Volatile | | 0 | ug/l | |

# Blank Spike Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2E3489-BS | 2E77747.D | 1 | 05/05/12 | MAH | n/a | n/a | V2E3489 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5604-11, JB5604-15, JB5604-16, JB5604-17, JB5604-18, JB5604-19, JB5604-20, JB5604-21, JB5604-22, JB5604-23, JB5604-24

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | 50 | 36.4 | 73 | 49-142 |
| 71-43-2 | Benzene | 50 | 51.2 | 102 | 76-119 |
| 108-86-1 | Bromobenzene | 50 | 50.9 | 102 | 77-123 |
| 74-97-5 | Bromochloromethane | 50 | 47.9 | 96 | 77-129 |
| 75-27-4 | Bromodichloromethane | 50 | 52.1 | 104 | 81-133 |
| 75-25-2 | Bromoform | 50 | 51.3 | 103 | 72-139 |
| 74-83-9 | Bromomethane | 50 | 48.9 | 98 | 55-140 |
| 78-93-3 | 2-Butanone (MEK) | 50 | 38.6 | 77 | 64-132 |
| 104-51-8 | n-Butylbenzene | 50 | 47.3 | 95 | 74-130 |
| 135-98-8 | sec-Butylbenzene | 50 | 49.7 | 99 | 75-125 |
| 98-06-6 | tert-Butylbenzene | 50 | 51.7 | 103 | 76-127 |
| 56-23-5 | Carbon tetrachloride | 50 | 56.1 | 112 | 74-146 |
| 108-90-7 | Chlorobenzene | 50 | 50.1 | 100 | 79-120 |
| 75-00-3 | Chloroethane | 50 | 48.9 | 98 | 60-134 |
| 67-66-3 | Chloroform | 50 | 52.0 | 104 | 77-127 |
| 74-87-3 | Chloromethane | 50 | 44.0 | 88 | 50-128 |
| 95-49-8 | o-Chlorotoluene | 50 | 50.0 | 100 | 78-124 |
| 106-43-4 | p-Chlorotoluene | 50 | 48.8 | 98 | 75-120 |
| 108-20-3 | Di-Isopropyl ether | 50 | 46.6 | 93 | 59-130 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 50 | 46.5 | 93 | 64-137 |
| 124-48-1 | Dibromochloromethane | 50 | 50.9 | 102 | 77-131 |
| 106-93-4 | 1,2-Dibromoethane | 50 | 48.4 | 97 | 76-127 |
| 95-50-1 | 1,2-Dichlorobenzene | 50 | 48.1 | 96 | 78-123 |
| 541-73-1 | 1,3-Dichlorobenzene | 50 | 50.0 | 100 | 77-124 |
| 106-46-7 | 1,4-Dichlorobenzene | 50 | 47.7 | 95 | 76-121 |
| 75-71-8 | Dichlorodifluoromethane | 50 | 40.2 | 80 | 41-138 |
| 75-34-3 | 1,1-Dichloroethane | 50 | 51.2 | 102 | 74-124 |
| 107-06-2 | 1,2-Dichloroethane | 50 | 55.2 | 110 | 71-138 |
| 75-35-4 | 1,1-Dichloroethene | 50 | 50.3 | 101 | 68-126 |
| 156-59-2 | cis-1,2-Dichloroethene | 50 | 50.9 | 102 | 78-131 |
| 156-60-5 | trans-1,2-Dichloroethene | 50 | 49.3 | 99 | 64-119 |
| 78-87-5 | 1,2-Dichloropropane | 50 | 50.7 | 101 | 76-121 |
| 142-28-9 | 1,3-Dichloropropane | 50 | 49.5 | 99 | 77-120 |
| 594-20-7 | 2,2-Dichloropropane | 50 | 41.8 | 84 | 53-143 |
| 563-58-6 | 1,1-Dichloropropene | 50 | 51.1 | 102 | 77-125 |
| 10061-01-5 | cis-1,3-Dichloropropene | 50 | 46.6 | 93 | 76-123 |

# Blank Spike Summary

**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2E3489-BS | 2E77747.D | 1 | 05/05/12 | MAH | n/a | n/a | V2E3489 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5604-11, JB5604-15, JB5604-16, JB5604-17, JB5604-18, JB5604-19, JB5604-20, JB5604-21, JB5604-22, JB5604-23, JB5604-24

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 10061-02-6 | trans-1,3-Dichloropropene | 50 | 50.8 | 102 | 74-129 |
| 100-41-4 | Ethylbenzene | 50 | 50.9 | 102 | 77-119 |
| 87-68-3 | Hexachlorobutadiene | 50 | 48.3 | 97 | 66-137 |
| 98-82-8 | Isopropylbenzene | 50 | 51.0 | 102 | 74-125 |
| 99-87-6 | p-Isopropyltoluene | 50 | 52.0 | 104 | 78-128 |
| 1634-04-4 | Methyl Tert Butyl Ether | 50 | 98.0 | 98 | 72-125 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | 50 | 44.4 | 89 | 68-131 |
| 74-95-3 | Methylene bromide | 50 | 53.7 | 107 | 79-129 |
| 75-09-2 | Methylene chloride | 50 | 47.1 | 94 | 73-122 |
| 91-20-3 | Naphthalene | 50 | 50.0 | 100 | 61-136 |
| 103-65-1 | n-Propylbenzene | 50 | 50.1 | 100 | 73-121 |
| 100-42-5 | Styrene | 50 | 52.4 | 105 | 77-121 |
| 75-65-0 | Tert Butyl Alcohol | 250 | 240 | 96 | 67-136 |
| 994-05-8 | tert-Amyl Methyl Ether | 50 | 50.0 | 100 | 69-125 |
| 637-92-3 | tert-Butyl Ethyl Ether | 50 | 47.8 | 96 | 67-129 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 50 | 53.6 | 107 | 80-128 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 50 | 42.3 | 85 | 70-121 |
| 127-18-4 | Tetrachloroethene | 50 | 53.2 | 106 | 64-148 |
| 108-88-3 | Toluene | 50 | 52.0 | 104 | 77-122 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 50 | 52.2 | 104 | 69-136 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 50 | 49.9 | 100 | 73-133 |
| 71-55-6 | 1,1,1-Trichloroethane | 50 | 54.2 | 108 | 76-135 |
| 79-00-5 | 1,1,2-Trichloroethane | 50 | 50.8 | 102 | 79-125 |
| 79-01-6 | Trichloroethene | 50 | 52.1 | 104 | 80-129 |
| 75-69-4 | Trichlorofluoromethane | 50 | 50.3 | 101 | 66-145 |
| 96-18-4 | 1,2,3-Trichloropropane | 50 | 46.2 | 92 | 72-130 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 50 | 51.4 | 103 | 77-123 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 50 | 50.7 | 101 | 76-123 |
| 75-01-4 | Vinyl chloride | 50 | 46.6 | 93 | 56-133 |
| | m,p-Xylene | 100 | 105 | 105 | 77-121 |
| 95-47-6 | o-Xylene | 50 | 52.7 | 105 | 80-124 |
| 1330-20-7 | Xylene (total) | 150 | 158 | 105 | 78-121 |

# Blank Spike Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2E3489-BS | 2E77747.D | 1 | 05/05/12 | MAH | n/a | n/a | V2E3489 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5604-11, JB5604-15, JB5604-16, JB5604-17, JB5604-18, JB5604-19, JB5604-20, JB5604-21, JB5604-22, JB5604-23, JB5604-24

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 108% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 110% | 70-127% |
| 2037-26-5 | Toluene-D8 | 113% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 106% | 76-118% |

# Blank Spike Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V4B790-BS | 4B17995.D | 1 | 05/10/12 | TYG | n/a | n/a | V4B790 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5604-2, JB5604-3, JB5604-4, JB5604-5, JB5604-6, JB5604-7

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | 50 | 60.3 | 121 | 49-142 |
| 71-43-2 | Benzene | 50 | 57.2 | 114 | 76-119 |
| 108-86-1 | Bromobenzene | 50 | 54.9 | 110 | 77-123 |
| 74-97-5 | Bromochloromethane | 50 | 54.1 | 108 | 77-129 |
| 75-27-4 | Bromodichloromethane | 50 | 54.0 | 108 | 81-133 |
| 75-25-2 | Bromoform | 50 | 53.4 | 107 | 72-139 |
| 74-83-9 | Bromomethane | 50 | 62.9 | 126 | 55-140 |
| 78-93-3 | 2-Butanone (MEK) | 50 | 62.0 | 124 | 64-132 |
| 104-51-8 | n-Butylbenzene | 50 | 54.6 | 109 | 74-130 |
| 135-98-8 | sec-Butylbenzene | 50 | 54.7 | 109 | 75-125 |
| 98-06-6 | tert-Butylbenzene | 50 | 55.1 | 110 | 76-127 |
| 56-23-5 | Carbon tetrachloride | 50 | 57.4 | 115 | 74-146 |
| 108-90-7 | Chlorobenzene | 50 | 55.3 | 111 | 79-120 |
| 75-00-3 | Chloroethane | 50 | 60.4 | 121 | 60-134 |
| 67-66-3 | Chloroform | 50 | 58.7 | 117 | 77-127 |
| 74-87-3 | Chloromethane | 50 | 59.2 | 118 | 50-128 |
| 95-49-8 | o-Chlorotoluene | 50 | 55.4 | 111 | 78-124 |
| 106-43-4 | p-Chlorotoluene | 50 | 54.3 | 109 | 75-120 |
| 108-20-3 | Di-Isopropyl ether | 50 | 54.8 | 110 | 59-130 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 50 | 49.2 | 98 | 64-137 |
| 124-48-1 | Dibromochloromethane | 50 | 53.0 | 106 | 77-131 |
| 106-93-4 | 1,2-Dibromoethane | 50 | 55.1 | 110 | 76-127 |
| 95-50-1 | 1,2-Dichlorobenzene | 50 | 51.5 | 103 | 78-123 |
| 541-73-1 | 1,3-Dichlorobenzene | 50 | 54.2 | 108 | 77-124 |
| 106-46-7 | 1,4-Dichlorobenzene | 50 | 52.5 | 105 | 76-121 |
| 75-71-8 | Dichlorodifluoromethane | 50 | 52.6 | 105 | 41-138 |
| 75-34-3 | 1,1-Dichloroethane | 50 | 59.4 | 119 | 74-124 |
| 107-06-2 | 1,2-Dichloroethane | 50 | 55.2 | 110 | 71-138 |
| 75-35-4 | 1,1-Dichloroethene | 50 | 58.7 | 117 | 68-126 |
| 156-59-2 | cis-1,2-Dichloroethene | 50 | 56.5 | 113 | 78-131 |
| 156-60-5 | trans-1,2-Dichloroethene | 50 | 56.5 | 113 | 64-119 |
| 78-87-5 | 1,2-Dichloropropane | 50 | 57.4 | 115 | 76-121 |
| 142-28-9 | 1,3-Dichloropropane | 50 | 56.4 | 113 | 77-120 |
| 594-20-7 | 2,2-Dichloropropane | 50 | 59.2 | 118 | 53-143 |
| 563-58-6 | 1,1-Dichloropropene | 50 | 58.0 | 116 | 77-125 |
| 10061-01-5 | cis-1,3-Dichloropropene | 50 | 53.1 | 106 | 76-123 |

# Blank Spike Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V4B790-BS | 4B17995.D | 1 | 05/10/12 | TYG | n/a | n/a | V4B790 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5604-2, JB5604-3, JB5604-4, JB5604-5, JB5604-6, JB5604-7

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 10061-02-6 | trans-1,3-Dichloropropene | 50 | 56.1 | 112 | 74-129 |
| 100-41-4 | Ethylbenzene | 50 | 56.5 | 113 | 77-119 |
| 87-68-3 | Hexachlorobutadiene | 50 | 46.5 | 93 | 66-137 |
| 98-82-8 | Isopropylbenzene | 50 | 56.5 | 113 | 74-125 |
| 99-87-6 | p-Isopropyltoluene | 50 | 55.8 | 112 | 78-128 |
| 1634-04-4 | Methyl Tert Butyl Ether | 100 | 108 | 108 | 72-125 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | 50 | 58.0 | 116 | 68-131 |
| 74-95-3 | Methylene bromide | 50 | 55.4 | 111 | 79-129 |
| 75-09-2 | Methylene chloride | 50 | 55.8 | 112 | 73-122 |
| 91-20-3 | Naphthalene | 50 | 51.8 | 104 | 61-136 |
| 103-65-1 | n-Propylbenzene | 50 | 58.1 | 116 | 73-121 |
| 100-42-5 | Styrene | 50 | 54.3 | 109 | 77-121 |
| 75-65-0 | Tert Butyl Alcohol | 250 | 241 | 96 | 67-136 |
| 994-05-8 | tert-Amyl Methyl Ether | 50 | 52.4 | 105 | 69-125 |
| 637-92-3 | tert-Butyl Ethyl Ether | 50 | 51.5 | 103 | 67-129 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 50 | 53.4 | 107 | 80-128 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 50 | 52.9 | 106 | 70-121 |
| 127-18-4 | Tetrachloroethene | 50 | 54.7 | 109 | 64-148 |
| 108-88-3 | Toluene | 50 | 56.4 | 113 | 77-122 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 50 | 50.1 | 100 | 69-136 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 50 | 52.1 | 104 | 73-133 |
| 71-55-6 | 1,1,1-Trichloroethane | 50 | 57.5 | 115 | 76-135 |
| 79-00-5 | 1,1,2-Trichloroethane | 50 | 55.3 | 111 | 79-125 |
| 79-01-6 | Trichloroethene | 50 | 56.0 | 112 | 80-129 |
| 75-69-4 | Trichlorofluoromethane | 50 | 58.4 | 117 | 66-145 |
| 96-18-4 | 1,2,3-Trichloropropane | 50 | 55.1 | 110 | 72-130 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 50 | 54.5 | 109 | 77-123 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 50 | 54.6 | 109 | 76-123 |
| 75-01-4 | Vinyl chloride | 50 | 59.9 | 120 | 56-133 |
| | m,p-Xylene | 100 | 114 | 114 | 77-121 |
| 95-47-6 | o-Xylene | 50 | 56.0 | 112 | 80-124 |
| 1330-20-7 | Xylene (total) | 150 | 170 | 113 | 78-121 |

# Blank Spike Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V4B790-BS | 4B17995.D | 1 | 05/10/12 | TYG | n/a | n/a | V4B790 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5604-2, JB5604-3, JB5604-4, JB5604-5, JB5604-6, JB5604-7

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 106% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 101% | 70-127% |
| 2037-26-5 | Toluene-D8 | 107% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | 76-118% |

# Blank Spike Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V3D3165-BS | 3D73193.D | 1 | 05/11/12 | NT | n/a | n/a | V3D3165 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5604-30, JB5604-31, JB5604-32, JB5604-33, JB5604-34, JB5604-35, JB5604-36

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | 50 | 49.1 | 98 | 49-142 |
| 71-43-2 | Benzene | 50 | 52.2 | 104 | 76-119 |
| 108-86-1 | Bromobenzene | 50 | 48.7 | 97 | 77-123 |
| 74-97-5 | Bromochloromethane | 50 | 48.9 | 98 | 77-129 |
| 75-27-4 | Bromodichloromethane | 50 | 48.7 | 97 | 81-133 |
| 75-25-2 | Bromoform | 50 | 45.8 | 92 | 72-139 |
| 74-83-9 | Bromomethane | 50 | 48.0 | 96 | 55-140 |
| 78-93-3 | 2-Butanone (MEK) | 50 | 47.2 | 94 | 64-132 |
| 104-51-8 | n-Butylbenzene | 50 | 53.9 | 108 | 74-130 |
| 135-98-8 | sec-Butylbenzene | 50 | 52.3 | 105 | 75-125 |
| 98-06-6 | tert-Butylbenzene | 50 | 51.9 | 104 | 76-127 |
| 56-23-5 | Carbon tetrachloride | 50 | 51.2 | 102 | 74-146 |
| 108-90-7 | Chlorobenzene | 50 | 49.7 | 99 | 79-120 |
| 75-00-3 | Chloroethane | 50 | 54.7 | 109 | 60-134 |
| 67-66-3 | Chloroform | 50 | 53.1 | 106 | 77-127 |
| 74-87-3 | Chloromethane | 50 | 47.2 | 94 | 50-128 |
| 95-49-8 | o-Chlorotoluene | 50 | 50.6 | 101 | 78-124 |
| 106-43-4 | p-Chlorotoluene | 50 | 50.7 | 101 | 75-120 |
| 108-20-3 | Di-Isopropyl ether | 50 | 57.7 | 115 | 59-130 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 50 | 38.1 | 76 | 64-137 |
| 124-48-1 | Dibromochloromethane | 50 | 46.2 | 92 | 77-131 |
| 106-93-4 | 1,2-Dibromoethane | 50 | 44.6 | 89 | 76-127 |
| 95-50-1 | 1,2-Dichlorobenzene | 50 | 47.6 | 95 | 78-123 |
| 541-73-1 | 1,3-Dichlorobenzene | 50 | 50.1 | 100 | 77-124 |
| 106-46-7 | 1,4-Dichlorobenzene | 50 | 47.4 | 95 | 76-121 |
| 75-71-8 | Dichlorodifluoromethane | 50 | 38.5 | 77 | 41-138 |
| 75-34-3 | 1,1-Dichloroethane | 50 | 54.8 | 110 | 74-124 |
| 107-06-2 | 1,2-Dichloroethane | 50 | 46.7 | 93 | 71-138 |
| 75-35-4 | 1,1-Dichloroethene | 50 | 49.2 | 98 | 68-126 |
| 156-59-2 | cis-1,2-Dichloroethene | 50 | 50.6 | 101 | 78-131 |
| 156-60-5 | trans-1,2-Dichloroethene | 50 | 49.5 | 99 | 64-119 |
| 78-87-5 | 1,2-Dichloropropane | 50 | 52.9 | 106 | 76-121 |
| 142-28-9 | 1,3-Dichloropropane | 50 | 47.9 | 96 | 77-120 |
| 594-20-7 | 2,2-Dichloropropane | 50 | 53.5 | 107 | 53-143 |
| 563-58-6 | 1,1-Dichloropropene | 50 | 51.9 | 104 | 77-125 |
| 10061-01-5 | cis-1,3-Dichloropropene | 50 | 48.1 | 96 | 76-123 |

# Blank Spike Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V3D3165-BS | 3D73193.D | 1 | 05/11/12 | NT | n/a | n/a | V3D3165 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5604-30, JB5604-31, JB5604-32, JB5604-33, JB5604-34, JB5604-35, JB5604-36

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 10061-02-6 | trans-1,3-Dichloropropene | 50 | 49.2 | 98 | 74-129 |
| 100-41-4 | Ethylbenzene | 50 | 50.1 | 100 | 77-119 |
| 87-68-3 | Hexachlorobutadiene | 50 | 47.2 | 94 | 66-137 |
| 98-82-8 | Isopropylbenzene | 50 | 52.9 | 106 | 74-125 |
| 99-87-6 | p-Isopropyltoluene | 50 | 54.8 | 110 | 78-128 |
| 1634-04-4 | Methyl Tert Butyl Ether | 100 | 103 | 103 | 72-125 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | 50 | 47.7 | 95 | 68-131 |
| 74-95-3 | Methylene bromide | 50 | 47.4 | 95 | 79-129 |
| 75-09-2 | Methylene chloride | 50 | 50.8 | 102 | 73-122 |
| 91-20-3 | Naphthalene | 50 | 42.3 | 85 | 61-136 |
| 103-65-1 | n-Propylbenzene | 50 | 54.2 | 108 | 73-121 |
| 100-42-5 | Styrene | 50 | 53.9 | 108 | 77-121 |
| 75-65-0 | Tert Butyl Alcohol | 250 | 249 | 100 | 67-136 |
| 994-05-8 | tert-Amyl Methyl Ether | 50 | 53.2 | 106 | 69-125 |
| 637-92-3 | tert-Butyl Ethyl Ether | 50 | 54.2 | 108 | 67-129 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 50 | 47.6 | 95 | 80-128 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 50 | 43.1 | 86 | 70-121 |
| 127-18-4 | Tetrachloroethene | 50 | 47.5 | 95 | 64-148 |
| 108-88-3 | Toluene | 50 | 51.5 | 103 | 77-122 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 50 | 44.7 | 89 | 69-136 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 50 | 47.5 | 95 | 73-133 |
| 71-55-6 | 1,1,1-Trichloroethane | 50 | 53.2 | 106 | 76-135 |
| 79-00-5 | 1,1,2-Trichloroethane | 50 | 48.1 | 96 | 79-125 |
| 79-01-6 | Trichloroethene | 50 | 51.6 | 103 | 80-129 |
| 75-69-4 | Trichlorofluoromethane | 50 | 48.7 | 97 | 66-145 |
| 96-18-4 | 1,2,3-Trichloropropane | 50 | 42.9 | 86 | 72-130 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 50 | 54.4 | 109 | 77-123 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 50 | 51.2 | 102 | 76-123 |
| 75-01-4 | Vinyl chloride | 50 | 48.8 | 98 | 56-133 |
| | m,p-Xylene | 100 | 104 | 104 | 77-121 |
| 95-47-6 | o-Xylene | 50 | 52.1 | 104 | 80-124 |
| 1330-20-7 | Xylene (total) | 150 | 156 | 104 | 78-121 |

# Blank Spike Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V3D3165-BS | 3D73193.D | 1 | 05/11/12 | NT | n/a | n/a | V3D3165 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5604-30, JB5604-31, JB5604-32, JB5604-33, JB5604-34, JB5604-35, JB5604-36

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 94% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 89% | 70-127% |
| 2037-26-5 | Toluene-D8 | 101% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 96% | 76-118% |

# Blank Spike Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2E3498-BS | 2E77911.D | 1 | 05/11/12 | MAH | n/a | n/a | V2E3498 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5604-1, JB5604-8, JB5604-9, JB5604-10, JB5604-11, JB5604-25, JB5604-26, JB5604-27, JB5604-29

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | 50 | 44.1 | 88 | 49-142 |
| 71-43-2 | Benzene | 50 | 48.1 | 96 | 76-119 |
| 108-86-1 | Bromobenzene | 50 | 49.6 | 99 | 77-123 |
| 74-97-5 | Bromochloromethane | 50 | 48.4 | 97 | 77-129 |
| 75-27-4 | Bromodichloromethane | 50 | 45.9 | 92 | 81-133 |
| 75-25-2 | Bromoform | 50 | 45.3 | 91 | 72-139 |
| 74-83-9 | Bromomethane | 50 | 48.5 | 97 | 55-140 |
| 78-93-3 | 2-Butanone (MEK) | 50 | 49.5 | 99 | 64-132 |
| 104-51-8 | n-Butylbenzene | 50 | 48.3 | 97 | 74-130 |
| 135-98-8 | sec-Butylbenzene | 50 | 50.5 | 101 | 75-125 |
| 98-06-6 | tert-Butylbenzene | 50 | 51.9 | 104 | 76-127 |
| 56-23-5 | Carbon tetrachloride | 50 | 43.4 | 87 | 74-146 |
| 108-90-7 | Chlorobenzene | 50 | 47.0 | 94 | 79-120 |
| 75-00-3 | Chloroethane | 50 | 48.9 | 98 | 60-134 |
| 67-66-3 | Chloroform | 50 | 45.7 | 91 | 77-127 |
| 74-87-3 | Chloromethane | 50 | 48.1 | 96 | 50-128 |
| 95-49-8 | o-Chlorotoluene | 50 | 50.9 | 102 | 78-124 |
| 106-43-4 | p-Chlorotoluene | 50 | 47.9 | 96 | 75-120 |
| 108-20-3 | Di-Isopropyl ether | 50 | 54.3 | 109 | 59-130 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 50 | 46.3 | 93 | 64-137 |
| 124-48-1 | Dibromochloromethane | 50 | 46.9 | 94 | 77-131 |
| 106-93-4 | 1,2-Dibromoethane | 50 | 50.3 | 101 | 76-127 |
| 95-50-1 | 1,2-Dichlorobenzene | 50 | 49.7 | 99 | 78-123 |
| 541-73-1 | 1,3-Dichlorobenzene | 50 | 48.1 | 96 | 77-124 |
| 106-46-7 | 1,4-Dichlorobenzene | 50 | 48.8 | 98 | 76-121 |
| 75-71-8 | Dichlorodifluoromethane | 50 | 43.6 | 87 | 41-138 |
| 75-34-3 | 1,1-Dichloroethane | 50 | 48.8 | 98 | 74-124 |
| 107-06-2 | 1,2-Dichloroethane | 50 | 43.5 | 87 | 71-138 |
| 75-35-4 | 1,1-Dichloroethene | 50 | 47.4 | 95 | 68-126 |
| 156-59-2 | cis-1,2-Dichloroethene | 50 | 50.0 | 100 | 78-131 |
| 156-60-5 | trans-1,2-Dichloroethene | 50 | 47.5 | 95 | 64-119 |
| 78-87-5 | 1,2-Dichloropropane | 50 | 50.2 | 100 | 76-121 |
| 142-28-9 | 1,3-Dichloropropane | 50 | 51.0 | 102 | 77-120 |
| 594-20-7 | 2,2-Dichloropropane | 50 | 41.8 | 84 | 53-143 |
| 563-58-6 | 1,1-Dichloropropene | 50 | 46.0 | 92 | 77-125 |
| 10061-01-5 | cis-1,3-Dichloropropene | 50 | 46.0 | 92 | 76-123 |

# Blank Spike Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2E3498-BS | 2E77911.D | 1 | 05/11/12 | MAH | n/a | n/a | V2E3498 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5604-1, JB5604-8, JB5604-9, JB5604-10, JB5604-11, JB5604-25, JB5604-26, JB5604-27, JB5604-29

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 10061-02-6 | trans-1,3-Dichloropropene | 50 | 47.9 | 96 | 74-129 |
| 100-41-4 | Ethylbenzene | 50 | 47.9 | 96 | 77-119 |
| 87-68-3 | Hexachlorobutadiene | 50 | 43.5 | 87 | 66-137 |
| 98-82-8 | Isopropylbenzene | 50 | 52.3 | 105 | 74-125 |
| 99-87-6 | p-Isopropyltoluene | 50 | 52.7 | 105 | 78-128 |
| 1634-04-4 | Methyl Tert Butyl Ether | 100 | 98.3 | 98 | 72-125 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | 50 | 50.1 | 100 | 68-131 |
| 74-95-3 | Methylene bromide | 50 | 49.1 | 98 | 79-129 |
| 75-09-2 | Methylene chloride | 50 | 48.4 | 97 | 73-122 |
| 91-20-3 | Naphthalene | 50 | 53.3 | 107 | 61-136 |
| 103-65-1 | n-Propylbenzene | 50 | 51.6 | 103 | 73-121 |
| 100-42-5 | Styrene | 50 | 51.7 | 103 | 77-121 |
| 75-65-0 | Tert Butyl Alcohol | 250 | 231 | 92 | 67-136 |
| 994-05-8 | tert-Amyl Methyl Ether | 50 | 50.8 | 102 | 69-125 |
| 637-92-3 | tert-Butyl Ethyl Ether | 50 | 50.9 | 102 | 67-129 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 50 | 46.8 | 94 | 80-128 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 50 | 49.9 | 100 | 70-121 |
| 127-18-4 | Tetrachloroethene | 50 | 44.3 | 89 | 64-148 |
| 108-88-3 | Toluene | 50 | 51.1 | 102 | 77-122 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 50 | 51.4 | 103 | 69-136 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 50 | 51.7 | 103 | 73-133 |
| 71-55-6 | 1,1,1-Trichloroethane | 50 | 43.7 | 87 | 76-135 |
| 79-00-5 | 1,1,2-Trichloroethane | 50 | 49.8 | 100 | 79-125 |
| 79-01-6 | Trichloroethene | 50 | 46.9 | 94 | 80-129 |
| 75-69-4 | Trichlorofluoromethane | 50 | 42.6 | 85 | 66-145 |
| 96-18-4 | 1,2,3-Trichloropropane | 50 | 48.7 | 97 | 72-130 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 50 | 52.3 | 105 | 77-123 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 50 | 50.8 | 102 | 76-123 |
| 75-01-4 | Vinyl chloride | 50 | 48.9 | 98 | 56-133 |
| | m,p-Xylene | 100 | 97.9 | 98 | 77-121 |
| 95-47-6 | o-Xylene | 50 | 49.7 | 99 | 80-124 |
| 1330-20-7 | Xylene (total) | 150 | 148 | 99 | 78-121 |

# Blank Spike Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2E3498-BS | 2E77911.D | 1 | 05/11/12 | MAH | n/a | n/a | V2E3498 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5604-1, JB5604-8, JB5604-9, JB5604-10, JB5604-11, JB5604-25, JB5604-26, JB5604-27, JB5604-29

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 110% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 100% | 70-127% |
| 2037-26-5 | Toluene-D8 | 119% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 111% | 76-118% |

# Blank Spike Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2E3500-BS | 2E77955.D | 1 | 05/12/12 | MAH | n/a | n/a | V2E3500 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5604-12, JB5604-13, JB5604-14, JB5604-28

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | 50 | 48.3 | 97 | 49-142 |
| 71-43-2 | Benzene | 50 | 48.2 | 96 | 76-119 |
| 108-86-1 | Bromobenzene | 50 | 50.5 | 101 | 77-123 |
| 74-97-5 | Bromochloromethane | 50 | 49.3 | 99 | 77-129 |
| 75-27-4 | Bromodichloromethane | 50 | 49.9 | 100 | 81-133 |
| 75-25-2 | Bromoform | 50 | 49.3 | 99 | 72-139 |
| 74-83-9 | Bromomethane | 50 | 44.3 | 89 | 55-140 |
| 78-93-3 | 2-Butanone (MEK) | 50 | 55.0 | 110 | 64-132 |
| 104-51-8 | n-Butylbenzene | 50 | 48.2 | 96 | 74-130 |
| 135-98-8 | sec-Butylbenzene | 50 | 50.1 | 100 | 75-125 |
| 98-06-6 | tert-Butylbenzene | 50 | 51.4 | 103 | 76-127 |
| 56-23-5 | Carbon tetrachloride | 50 | 49.2 | 98 | 74-146 |
| 108-90-7 | Chlorobenzene | 50 | 47.7 | 95 | 79-120 |
| 75-00-3 | Chloroethane | 50 | 45.4 | 91 | 60-134 |
| 67-66-3 | Chloroform | 50 | 48.6 | 97 | 77-127 |
| 74-87-3 | Chloromethane | 50 | 40.4 | 81 | 50-128 |
| 95-49-8 | o-Chlorotoluene | 50 | 49.3 | 99 | 78-124 |
| 106-43-4 | p-Chlorotoluene | 50 | 48.8 | 98 | 75-120 |
| 108-20-3 | Di-Isopropyl ether | 50 | 53.3 | 107 | 59-130 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 50 | 53.1 | 106 | 64-137 |
| 124-48-1 | Dibromochloromethane | 50 | 50.0 | 100 | 77-131 |
| 106-93-4 | 1,2-Dibromoethane | 50 | 52.2 | 104 | 76-127 |
| 95-50-1 | 1,2-Dichlorobenzene | 50 | 50.2 | 100 | 78-123 |
| 541-73-1 | 1,3-Dichlorobenzene | 50 | 49.0 | 98 | 77-124 |
| 106-46-7 | 1,4-Dichlorobenzene | 50 | 49.8 | 100 | 76-121 |
| 75-71-8 | Dichlorodifluoromethane | 50 | 34.1 | 68 | 41-138 |
| 75-34-3 | 1,1-Dichloroethane | 50 | 50.5 | 101 | 74-124 |
| 107-06-2 | 1,2-Dichloroethane | 50 | 49.9 | 100 | 71-138 |
| 75-35-4 | 1,1-Dichloroethene | 50 | 48.5 | 97 | 68-126 |
| 156-59-2 | cis-1,2-Dichloroethene | 50 | 50.5 | 101 | 78-131 |
| 156-60-5 | trans-1,2-Dichloroethene | 50 | 48.2 | 96 | 64-119 |
| 78-87-5 | 1,2-Dichloropropane | 50 | 50.4 | 101 | 76-121 |
| 142-28-9 | 1,3-Dichloropropane | 50 | 51.7 | 103 | 77-120 |
| 594-20-7 | 2,2-Dichloropropane | 50 | 45.6 | 91 | 53-143 |
| 563-58-6 | 1,1-Dichloropropene | 50 | 47.3 | 95 | 77-125 |
| 10061-01-5 | cis-1,3-Dichloropropene | 50 | 49.0 | 98 | 76-123 |

# Blank Spike Summary

**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2E3500-BS | 2E77955.D | 1 | 05/12/12 | MAH | n/a | n/a | V2E3500 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5604-12, JB5604-13, JB5604-14, JB5604-28

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 10061-02-6 | trans-1,3-Dichloropropene | 50 | 53.2 | 106 | 74-129 |
| 100-41-4 | Ethylbenzene | 50 | 48.3 | 97 | 77-119 |
| 87-68-3 | Hexachlorobutadiene | 50 | 44.8 | 90 | 66-137 |
| 98-82-8 | Isopropylbenzene | 50 | 51.4 | 103 | 74-125 |
| 99-87-6 | p-Isopropyltoluene | 50 | 52.7 | 105 | 78-128 |
| 1634-04-4 | Methyl Tert Butyl Ether | 100 | 103 | 103 | 72-125 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | 50 | 51.7 | 103 | 68-131 |
| 74-95-3 | Methylene bromide | 50 | 52.3 | 105 | 79-129 |
| 75-09-2 | Methylene chloride | 50 | 49.9 | 100 | 73-122 |
| 91-20-3 | Naphthalene | 50 | 54.9 | 110 | 61-136 |
| 103-65-1 | n-Propylbenzene | 50 | 51.4 | 103 | 73-121 |
| 100-42-5 | Styrene | 50 | 52.6 | 105 | 77-121 |
| 75-65-0 | Tert Butyl Alcohol | 250 | 234 | 94 | 67-136 |
| 994-05-8 | tert-Amyl Methyl Ether | 50 | 51.3 | 103 | 69-125 |
| 637-92-3 | tert-Butyl Ethyl Ether | 50 | 51.7 | 103 | 67-129 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 50 | 48.9 | 98 | 80-128 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 50 | 49.6 | 99 | 70-121 |
| 127-18-4 | Tetrachloroethene | 50 | 43.5 | 87 | 64-148 |
| 108-88-3 | Toluene | 50 | 51.9 | 104 | 77-122 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 50 | 52.6 | 105 | 69-136 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 50 | 52.6 | 105 | 73-133 |
| 71-55-6 | 1,1,1-Trichloroethane | 50 | 47.7 | 95 | 76-135 |
| 79-00-5 | 1,1,2-Trichloroethane | 50 | 52.5 | 105 | 79-125 |
| 79-01-6 | Trichloroethene | 50 | 47.0 | 94 | 80-129 |
| 75-69-4 | Trichlorofluoromethane | 50 | 44.0 | 88 | 66-145 |
| 96-18-4 | 1,2,3-Trichloropropane | 50 | 52.0 | 104 | 72-130 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 50 | 52.6 | 105 | 77-123 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 50 | 50.2 | 100 | 76-123 |
| 75-01-4 | Vinyl chloride | 50 | 42.6 | 85 | 56-133 |
| | m,p-Xylene | 100 | 99.5 | 100 | 77-121 |
| 95-47-6 | o-Xylene | 50 | 50.1 | 100 | 80-124 |
| 1330-20-7 | Xylene (total) | 150 | 150 | 100 | 78-121 |

# Blank Spike Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2E3500-BS | 2E77955.D | 1 | 05/12/12 | MAH | n/a | n/a | V2E3500 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5604-12, JB5604-13, JB5604-14, JB5604-28

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 112% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 112% | 70-127% |
| 2037-26-5 | Toluene-D8 | 119% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 110% | 76-118% |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5604-11MS | 2E77748.D | 5 | 05/05/12 | MAH | n/a | n/a | V2E3489 |
| JB5604-11MSD | 2E77749.D | 5 | 05/05/12 | MAH | n/a | n/a | V2E3489 |
| JB5604-11 | 2E77751.D | 5 | 05/05/12 | MAH | n/a | n/a | V2E3489 |
| JB5604-11 | 2E77752.D | 50 | 05/06/12 | MAH | n/a | n/a | V2E3489 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5604-11, JB5604-15, JB5604-16, JB5604-17, JB5604-18, JB5604-19, JB5604-20, JB5604-21, JB5604-22, JB5604-23, JB5604-24

| CAS No. | Compound | JB5604-11 ug/l | Q | Spike ug/l | MS ug/l | MS % | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | | 250 | 170 | 68 | 166 | 66 | 2 | 39-150/20 |
| 71-43-2 | Benzene | 1.9 | J | 250 | 242 | 96 | 251 | 100 | 4 | 40-139/12 |
| 108-86-1 | Bromobenzene | ND | | 250 | 241 | 96 | 254 | 102 | 5 | 67-131/12 |
| 74-97-5 | Bromochloromethane | ND | | 250 | 241 | 96 | 250 | 100 | 4 | 67-134/12 |
| 75-27-4 | Bromodichloromethane | ND | | 250 | 251 | 100 | 256 | 102 | 2 | 68-135/12 |
| 75-25-2 | Bromoform | ND | | 250 | 241 | 96 | 251 | 100 | 4 | 55-141/14 |
| 74-83-9 | Bromomethane | ND | | 250 | 229 | 92 | 233 | 93 | 2 | 49-145/16 |
| 78-93-3 | 2-Butanone (MEK) | ND | | 250 | 190 | 76 | 189 | 76 | 1 | 55-141/15 |
| 104-51-8 | n-Butylbenzene | ND | | 250 | 219 | 88 | 233 | 93 | 6 | 55-139/15 |
| 135-98-8 | sec-Butylbenzene | ND | | 250 | 235 | 94 | 248 | 99 | 5 | 55-137/14 |
| 98-06-6 | tert-Butylbenzene | ND | | 250 | 245 | 98 | 257 | 103 | 5 | 58-137/15 |
| 56-23-5 | Carbon tetrachloride | ND | | 250 | 256 | 102 | 262 | 105 | 2 | 52-155/16 |
| 108-90-7 | Chlorobenzene | ND | | 250 | 235 | 94 | 242 | 97 | 3 | 66-129/11 |
| 75-00-3 | Chloroethane | ND | | 250 | 232 | 93 | 232 | 93 | 0 | 50-140/16 |
| 67-66-3 | Chloroform | ND | | 250 | 240 | 96 | 248 | 99 | 3 | 63-133/13 |
| 74-87-3 | Chloromethane | ND | | 250 | 223 | 89 | 232 | 93 | 4 | 43-138/17 |
| 95-49-8 | o-Chlorotoluene | ND | | 250 | 236 | 94 | 249 | 100 | 5 | 62-132/13 |
| 106-43-4 | p-Chlorotoluene | ND | | 250 | 234 | 94 | 243 | 97 | 4 | 62-129/13 |
| 108-20-3 | Di-Isopropyl ether | 7.5 | J | 250 | 236 | 91 | 248 | 96 | 5 | 51-136/11 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | | 250 | 229 | 92 | 236 | 94 | 3 | 57-142/14 |
| 124-48-1 | Dibromochloromethane | ND | | 250 | 247 | 99 | 259 | 104 | 5 | 64-136/12 |
| 106-93-4 | 1,2-Dibromoethane | ND | | 250 | 237 | 95 | 243 | 97 | 3 | 69-132/11 |
| 95-50-1 | 1,2-Dichlorobenzene | ND | | 250 | 227 | 91 | 243 | 97 | 7 | 69-129/11 |
| 541-73-1 | 1,3-Dichlorobenzene | ND | | 250 | 233 | 93 | 246 | 98 | 5 | 66-130/12 |
| 106-46-7 | 1,4-Dichlorobenzene | ND | | 250 | 226 | 90 | 239 | 96 | 6 | 66-127/12 |
| 75-71-8 | Dichlorodifluoromethane | ND | | 250 | 232 | 93 | 243 | 97 | 5 | 31-166/20 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 250 | 230 | 92 | 246 | 98 | 7 | 58-132/13 |
| 107-06-2 | 1,2-Dichloroethane | ND | | 250 | 258 | 103 | 260 | 104 | 1 | 62-145/12 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 250 | 223 | 89 | 239 | 96 | 7 | 43-142/17 |
| 156-59-2 | cis-1,2-Dichloroethene | ND | | 250 | 241 | 96 | 249 | 100 | 3 | 55-132/12 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 250 | 222 | 89 | 240 | 96 | 8 | 53-132/14 |
| 78-87-5 | 1,2-Dichloropropane | ND | | 250 | 234 | 94 | 244 | 98 | 4 | 65-128/12 |
| 142-28-9 | 1,3-Dichloropropane | ND | | 250 | 237 | 95 | 240 | 96 | 1 | 68-127/11 |
| 594-20-7 | 2,2-Dichloropropane | ND | | 250 | 203 | 81 | 211 | 84 | 4 | 41-146/16 |
| 563-58-6 | 1,1-Dichloropropene | ND | | 250 | 238 | 95 | 249 | 100 | 5 | 54-139/15 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 250 | 234 | 94 | 243 | 97 | 4 | 66-130/12 |

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5604-11MS | 2E77748.D | 5 | 05/05/12 | MAH | n/a | n/a | V2E3489 |
| JB5604-11MSD | 2E77749.D | 5 | 05/05/12 | MAH | n/a | n/a | V2E3489 |
| JB5604-11 | 2E77751.D | 5 | 05/05/12 | MAH | n/a | n/a | V2E3489 |
| JB5604-11 | 2E77752.D | 50 | 05/06/12 | MAH | n/a | n/a | V2E3489 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5604-11, JB5604-15, JB5604-16, JB5604-17, JB5604-18, JB5604-19, JB5604-20, JB5604-21, JB5604-22, JB5604-23, JB5604-24

| CAS No. | Compound | JB5604-11 ug/l | Q | Spike ug/l | MS ug/l | MS % | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 250 | 244 | 98 | 250 | 100 | 2 | 64-135/13 |
| 100-41-4 | Ethylbenzene | ND | | 250 | 239 | 96 | 247 | 99 | 3 | 40-140/12 |
| 87-68-3 | Hexachlorobutadiene | ND | | 250 | 242 | 97 | 252 | 101 | 4 | 51-141/16 |
| 98-82-8 | Isopropylbenzene | ND | | 250 | 238 | 95 | 254 | 102 | 7 | 56-138/13 |
| 99-87-6 | p-Isopropyltoluene | ND | | 250 | 238 | 95 | 249 | 100 | 5 | 58-136/14 |
| 1634-04-4 | Methyl Tert Butyl Ether | 1260 [a] | | 250 | 1450 | 76 | 1490 | 92 | 3 | 54-136/12 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | | 250 | 215 | 86 | 221 | 88 | 3 | 61-138/14 |
| 74-95-3 | Methylene bromide | ND | | 250 | 244 | 98 | 259 | 104 | 6 | 70-134/12 |
| 75-09-2 | Methylene chloride | ND | | 250 | 227 | 91 | 235 | 94 | 3 | 60-130/13 |
| 91-20-3 | Naphthalene | ND | | 250 | 246 | 98 | 260 | 104 | 6 | 51-149/14 |
| 103-65-1 | n-Propylbenzene | ND | | 250 | 232 | 93 | 245 | 98 | 5 | 51-138/14 |
| 100-42-5 | Styrene | ND | | 250 | 248 | 99 | 258 | 103 | 4 | 59-132/13 |
| 75-65-0 | Tert Butyl Alcohol | 55.2 | J | 1250 | 1320 | 101 | 1380 | 106 | 4 | 57-153/16 |
| 994-05-8 | tert-Amyl Methyl Ether | 14.9 | J | 250 | 264 | 100 | 268 | 101 | 2 | 60-133/11 |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | | 250 | 243 | 97 | 253 | 101 | 4 | 59-134/11 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | | 250 | 257 | 103 | 261 | 104 | 2 | 69-134/12 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 250 | 216 | 86 | 229 | 92 | 6 | 65-128/12 |
| 127-18-4 | Tetrachloroethene | ND | | 250 | 223 | 89 | 233 | 93 | 4 | 52-143/15 |
| 108-88-3 | Toluene | ND | | 250 | 247 | 99 | 260 | 104 | 5 | 47-140/12 |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | | 250 | 253 | 101 | 268 | 107 | 6 | 62-137/14 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | | 250 | 236 | 94 | 246 | 98 | 4 | 64-136/14 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 250 | 248 | 99 | 258 | 103 | 4 | 55-146/15 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | | 250 | 248 | 99 | 261 | 104 | 5 | 70-129/12 |
| 79-01-6 | Trichloroethene | ND | | 250 | 234 | 94 | 247 | 99 | 5 | 54-142/14 |
| 75-69-4 | Trichlorofluoromethane | ND | | 250 | 242 | 97 | 248 | 99 | 2 | 45-159/19 |
| 96-18-4 | 1,2,3-Trichloropropane | ND | | 250 | 219 | 88 | 238 | 95 | 8 | 64-137/13 |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | | 250 | 236 | 94 | 250 | 100 | 6 | 40-147/12 |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | | 250 | 240 | 96 | 252 | 101 | 5 | 50-142/13 |
| 75-01-4 | Vinyl chloride | ND | | 250 | 230 | 92 | 238 | 95 | 3 | 42-145/18 |
| | m,p-Xylene | ND | | 500 | 494 | 99 | 509 | 102 | 3 | 39-141/12 |
| 95-47-6 | o-Xylene | ND | | 250 | 252 | 101 | 257 | 103 | 2 | 51-138/12 |
| 1330-20-7 | Xylene (total) | ND | | 750 | 746 | 99 | 766 | 102 | 3 | 42-140/12 |

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5604-11MS | 2E77748.D | 5 | 05/05/12 | MAH | n/a | n/a | V2E3489 |
| JB5604-11MSD | 2E77749.D | 5 | 05/05/12 | MAH | n/a | n/a | V2E3489 |
| JB5604-11 | 2E77751.D | 5 | 05/05/12 | MAH | n/a | n/a | V2E3489 |
| JB5604-11 | 2E77752.D | 50 | 05/06/12 | MAH | n/a | n/a | V2E3489 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5604-11, JB5604-15, JB5604-16, JB5604-17, JB5604-18, JB5604-19, JB5604-20, JB5604-21, JB5604-22, JB5604-23, JB5604-24

| CAS No. | Surrogate Recoveries | MS | MSD | JB5604-11 | JB5604-11 | Limits |
|---|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 108% | 108% | 109% | 110% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 111% | 108% | 109% | 113% | 70-127% |
| 2037-26-5 | Toluene-D8 | 114% | 114% | 109% | 110% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 106% | 107% | 108% | 106% | 76-118% |

(a) Result is from Run #2.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5941-1MS | 4B18005.D | 1 | 05/10/12 | TYG | n/a | n/a | V4B790 |
| JB5941-1MSD | 4B18006.D | 1 | 05/10/12 | TYG | n/a | n/a | V4B790 |
| JB5941-1 | 4B18001.D | 1 | 05/10/12 | TYG | n/a | n/a | V4B790 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5604-2, JB5604-3, JB5604-4, JB5604-5, JB5604-6, JB5604-7

| CAS No. | Compound | JB5941-1 ug/l | Q | Spike ug/l | MS ug/l | MS % | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | | 50 | 58.5 | 117 | 57.5 | 115 | 2 | 39-150/20 |
| 71-43-2 | Benzene | ND | | 50 | 52.0 | 104 | 50.0 | 100 | 4 | 40-139/12 |
| 108-86-1 | Bromobenzene | ND | | 50 | 53.2 | 106 | 52.4 | 105 | 2 | 67-131/12 |
| 74-97-5 | Bromochloromethane | ND | | 50 | 52.7 | 105 | 51.7 | 103 | 2 | 67-134/12 |
| 75-27-4 | Bromodichloromethane | ND | | 50 | 51.5 | 103 | 50.8 | 102 | 1 | 68-135/12 |
| 75-25-2 | Bromoform | ND | | 50 | 53.2 | 106 | 52.5 | 105 | 1 | 55-141/14 |
| 74-83-9 | Bromomethane | ND | | 50 | 72.7 | 145 | 65.6 | 131 | 10 | 49-145/16 |
| 78-93-3 | 2-Butanone (MEK) | ND | | 50 | 60.7 | 121 | 59.6 | 119 | 2 | 55-141/15 |
| 104-51-8 | n-Butylbenzene | ND | | 50 | 48.6 | 97 | 45.8 | 92 | 6 | 55-139/15 |
| 135-98-8 | sec-Butylbenzene | ND | | 50 | 49.6 | 99 | 47.0 | 94 | 5 | 55-137/14 |
| 98-06-6 | tert-Butylbenzene | ND | | 50 | 50.3 | 101 | 48.0 | 96 | 5 | 58-137/15 |
| 56-23-5 | Carbon tetrachloride | ND | | 50 | 51.3 | 103 | 48.2 | 96 | 6 | 52-155/16 |
| 108-90-7 | Chlorobenzene | ND | | 50 | 51.5 | 103 | 49.9 | 100 | 3 | 66-129/11 |
| 75-00-3 | Chloroethane | ND | | 50 | 64.6 | 129 | 59.0 | 118 | 9 | 50-140/16 |
| 67-66-3 | Chloroform | 0.68 | J | 50 | 54.1 | 107 | 52.2 | 103 | 4 | 63-133/13 |
| 74-87-3 | Chloromethane | ND | | 50 | 60.3 | 121 | 54.8 | 110 | 10 | 43-138/17 |
| 95-49-8 | o-Chlorotoluene | ND | | 50 | 51.3 | 103 | 50.2 | 100 | 2 | 62-132/13 |
| 106-43-4 | p-Chlorotoluene | ND | | 50 | 51.4 | 103 | 49.4 | 99 | 4 | 62-129/13 |
| 108-20-3 | Di-Isopropyl ether | ND | | 50 | 58.6 | 117 | 57.0 | 114 | 3 | 51-136/11 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | | 50 | 47.5 | 95 | 46.7 | 93 | 2 | 57-142/14 |
| 124-48-1 | Dibromochloromethane | ND | | 50 | 53.2 | 106 | 52.8 | 106 | 1 | 64-136/12 |
| 106-93-4 | 1,2-Dibromoethane | ND | | 50 | 55.2 | 110 | 54.8 | 110 | 1 | 69-132/11 |
| 95-50-1 | 1,2-Dichlorobenzene | ND | | 50 | 49.4 | 99 | 48.5 | 97 | 2 | 69-129/11 |
| 541-73-1 | 1,3-Dichlorobenzene | ND | | 50 | 50.2 | 100 | 49.1 | 98 | 2 | 66-130/12 |
| 106-46-7 | 1,4-Dichlorobenzene | ND | | 50 | 50.4 | 101 | 49.0 | 98 | 3 | 66-127/12 |
| 75-71-8 | Dichlorodifluoromethane | ND | | 50 | 51.1 | 102 | 46.9 | 94 | 9 | 31-166/20 |
| 75-34-3 | 1,1-Dichloroethane | 0.59 | J | 50 | 53.4 | 106 | 51.0 | 101 | 5 | 58-132/13 |
| 107-06-2 | 1,2-Dichloroethane | ND | | 50 | 53.2 | 106 | 51.8 | 104 | 3 | 62-145/12 |
| 75-35-4 | 1,1-Dichloroethene | 1.7 | | 50 | 52.4 | 101 | 49.4 | 95 | 6 | 43-142/17 |
| 156-59-2 | cis-1,2-Dichloroethene | 4.9 | | 50 | 56.4 | 103 | 55.1 | 100 | 2 | 55-132/12 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 50 | 50.7 | 101 | 48.3 | 97 | 5 | 53-132/14 |
| 78-87-5 | 1,2-Dichloropropane | ND | | 50 | 53.4 | 107 | 51.7 | 103 | 3 | 65-128/12 |
| 142-28-9 | 1,3-Dichloropropane | ND | | 50 | 55.0 | 110 | 54.5 | 109 | 1 | 68-127/11 |
| 594-20-7 | 2,2-Dichloropropane | ND | | 50 | 53.6 | 107 | 50.7 | 101 | 6 | 41-146/16 |
| 563-58-6 | 1,1-Dichloropropene | ND | | 50 | 51.9 | 104 | 49.2 | 98 | 5 | 54-139/15 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 50 | 54.0 | 108 | 52.9 | 106 | 2 | 66-130/12 |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5941-1MS | 4B18005.D | 1 | 05/10/12 | TYG | n/a | n/a | V4B790 |
| JB5941-1MSD | 4B18006.D | 1 | 05/10/12 | TYG | n/a | n/a | V4B790 |
| JB5941-1 | 4B18001.D | 1 | 05/10/12 | TYG | n/a | n/a | V4B790 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5604-2, JB5604-3, JB5604-4, JB5604-5, JB5604-6, JB5604-7

| CAS No. | Compound | JB5941-1 ug/l | Q | Spike ug/l | MS ug/l | MS % | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 50 | 53.7 | 107 | 53.3 | 107 | 1 | 64-135/13 |
| 100-41-4 | Ethylbenzene | ND | | 50 | 51.6 | 103 | 49.9 | 100 | 3 | 40-140/12 |
| 87-68-3 | Hexachlorobutadiene | ND | | 50 | 43.2 | 86 | 41.6 | 83 | 4 | 51-141/16 |
| 98-82-8 | Isopropylbenzene | ND | | 50 | 51.7 | 103 | 49.1 | 98 | 5 | 56-138/13 |
| 99-87-6 | p-Isopropyltoluene | ND | | 50 | 49.0 | 98 | 46.9 | 94 | 4 | 58-136/14 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 50 | 52.9 | 106 | 51.5 | 103 | 3 | 54-136/12 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | | 50 | 57.1 | 114 | 56.2 | 112 | 2 | 61-138/14 |
| 74-95-3 | Methylene bromide | ND | | 50 | 52.5 | 105 | 51.6 | 103 | 2 | 70-134/12 |
| 75-09-2 | Methylene chloride | ND | | 50 | 52.0 | 104 | 50.4 | 101 | 3 | 60-130/13 |
| 91-20-3 | Naphthalene | ND | | 50 | 51.3 | 103 | 49.8 | 100 | 3 | 51-149/14 |
| 103-65-1 | n-Propylbenzene | ND | | 50 | 52.1 | 104 | 49.6 | 99 | 5 | 51-138/14 |
| 100-42-5 | Styrene | ND | | 50 | 51.3 | 103 | 50.5 | 101 | 2 | 59-132/13 |
| 75-65-0 | Tert Butyl Alcohol | ND | | 250 | 290 | 116 | 290 | 116 | 0 | 57-153/16 |
| 994-05-8 | tert-Amyl Methyl Ether | ND | | 50 | 56.8 | 114 | 55.6 | 111 | 2 | 60-133/11 |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | | 50 | 57.6 | 115 | 56.3 | 113 | 2 | 59-134/11 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | | 50 | 50.4 | 101 | 49.4 | 99 | 2 | 69-134/12 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 50 | 54.7 | 109 | 53.6 | 107 | 2 | 65-128/12 |
| 127-18-4 | Tetrachloroethene | 0.70 | J | 50 | 50.5 | 100 | 48.4 | 95 | 4 | 52-143/15 |
| 108-88-3 | Toluene | ND | | 50 | 52.3 | 105 | 50.9 | 102 | 3 | 47-140/12 |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | | 50 | 46.9 | 94 | 46.5 | 93 | 1 | 62-137/14 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | | 50 | 45.8 | 92 | 45.1 | 90 | 2 | 64-136/14 |
| 71-55-6 | 1,1,1-Trichloroethane | 2.6 | | 50 | 53.8 | 102 | 51.0 | 97 | 5 | 55-146/15 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | | 50 | 53.7 | 107 | 52.9 | 106 | 2 | 70-129/12 |
| 79-01-6 | Trichloroethene | 147 | | 50 | 170 | 46* [a] | 163 | 32* [a] | 4 | 54-142/14 |
| 75-69-4 | Trichlorofluoromethane | ND | | 50 | 58.2 | 116 | 53.9 | 108 | 8 | 45-159/19 |
| 96-18-4 | 1,2,3-Trichloropropane | ND | | 50 | 56.6 | 113 | 55.4 | 111 | 2 | 64-137/13 |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | | 50 | 50.5 | 101 | 48.5 | 97 | 4 | 40-147/12 |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | | 50 | 50.3 | 101 | 48.7 | 97 | 3 | 50-142/13 |
| 75-01-4 | Vinyl chloride | ND | | 50 | 60.1 | 120 | 54.8 | 110 | 9 | 42-145/18 |
| | m,p-Xylene | ND | | 100 | 104 | 104 | 102 | 102 | 2 | 39-141/12 |
| 95-47-6 | o-Xylene | ND | | 50 | 51.7 | 103 | 50.1 | 100 | 3 | 51-138/12 |
| 1330-20-7 | Xylene (total) | ND | | 150 | 156 | 104 | 152 | 101 | 3 | 42-140/12 |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5941-1MS | 4B18005.D | 1 | 05/10/12 | TYG | n/a | n/a | V4B790 |
| JB5941-1MSD | 4B18006.D | 1 | 05/10/12 | TYG | n/a | n/a | V4B790 |
| JB5941-1 | 4B18001.D | 1 | 05/10/12 | TYG | n/a | n/a | V4B790 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5604-2, JB5604-3, JB5604-4, JB5604-5, JB5604-6, JB5604-7

| CAS No. | Surrogate Recoveries | MS | MSD | JB5941-1 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 104% | 103% | 106% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 100% | 98% | 103% | 70-127% |
| 2037-26-5 | Toluene-D8 | 106% | 107% | 107% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 102% | 101% | 100% | 76-118% |

(a) Outside control limits due to high level in sample relative to spike amount.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5604-35MS | 3D73201.D | 5 | 05/11/12 | NT | n/a | n/a | V3D3165 |
| JB5604-35MSD | 3D73202.D | 5 | 05/11/12 | NT | n/a | n/a | V3D3165 |
| JB5604-35 | 3D73199.D | 5 | 05/11/12 | NT | n/a | n/a | V3D3165 |
| JB5604-35 | 3D73200.D | 50 | 05/11/12 | NT | n/a | n/a | V3D3165 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5604-30, JB5604-31, JB5604-32, JB5604-33, JB5604-34, JB5604-35, JB5604-36

| CAS No. | Compound | JB5604-35 ug/l | Q | Spike ug/l | MS ug/l | MS % | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | | 250 | 233 | 93 | 232 | 93 | 0 | 39-150/20 |
| 71-43-2 | Benzene | 44.3 | | 250 | 312 | 107 | 301 | 103 | 4 | 40-139/12 |
| 108-86-1 | Bromobenzene | ND | | 250 | 266 | 106 | 256 | 102 | 4 | 67-131/12 |
| 74-97-5 | Bromochloromethane | ND | | 250 | 262 | 105 | 255 | 102 | 3 | 67-134/12 |
| 75-27-4 | Bromodichloromethane | ND | | 250 | 266 | 106 | 257 | 103 | 3 | 68-135/12 |
| 75-25-2 | Bromoform | ND | | 250 | 237 | 95 | 236 | 94 | 0 | 55-141/14 |
| 74-83-9 | Bromomethane | ND | | 250 | 259 | 104 | 245 | 98 | 6 | 49-145/16 |
| 78-93-3 | 2-Butanone (MEK) | ND | | 250 | 231 | 92 | 230 | 92 | 0 | 55-141/15 |
| 104-51-8 | n-Butylbenzene | ND | | 250 | 286 | 114 | 274 | 110 | 4 | 55-139/15 |
| 135-98-8 | sec-Butylbenzene | ND | | 250 | 284 | 114 | 272 | 109 | 4 | 55-137/14 |
| 98-06-6 | tert-Butylbenzene | ND | | 250 | 283 | 113 | 270 | 108 | 5 | 58-137/15 |
| 56-23-5 | Carbon tetrachloride | ND | | 250 | 272 | 109 | 259 | 104 | 5 | 52-155/16 |
| 108-90-7 | Chlorobenzene | ND | | 250 | 268 | 107 | 256 | 102 | 5 | 66-129/11 |
| 75-00-3 | Chloroethane | ND | | 250 | 290 | 116 | 273 | 109 | 6 | 50-140/16 |
| 67-66-3 | Chloroform | ND | | 250 | 274 | 110 | 265 | 106 | 3 | 63-133/13 |
| 74-87-3 | Chloromethane | ND | | 250 | 272 | 109 | 253 | 101 | 7 | 43-138/17 |
| 95-49-8 | o-Chlorotoluene | ND | | 250 | 278 | 111 | 267 | 107 | 4 | 62-132/13 |
| 106-43-4 | p-Chlorotoluene | ND | | 250 | 275 | 110 | 266 | 106 | 3 | 62-129/13 |
| 108-20-3 | Di-Isopropyl ether | 27.6 | | 250 | 317 | 116 | 306 | 111 | 4 | 51-136/11 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | | 250 | 192 | 77 | 193 | 77 | 1 | 57-142/14 |
| 124-48-1 | Dibromochloromethane | ND | | 250 | 252 | 101 | 245 | 98 | 3 | 64-136/12 |
| 106-93-4 | 1,2-Dibromoethane | ND | | 250 | 238 | 95 | 236 | 94 | 1 | 69-132/11 |
| 95-50-1 | 1,2-Dichlorobenzene | ND | | 250 | 254 | 102 | 246 | 98 | 3 | 69-129/11 |
| 541-73-1 | 1,3-Dichlorobenzene | ND | | 250 | 270 | 108 | 261 | 104 | 3 | 66-130/12 |
| 106-46-7 | 1,4-Dichlorobenzene | ND | | 250 | 255 | 102 | 244 | 98 | 4 | 66-127/12 |
| 75-71-8 | Dichlorodifluoromethane | ND | | 250 | 262 | 105 | 241 | 96 | 8 | 31-166/20 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 250 | 289 | 116 | 276 | 110 | 5 | 58-132/13 |
| 107-06-2 | 1,2-Dichloroethane | ND | | 250 | 255 | 102 | 243 | 97 | 5 | 62-145/12 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 250 | 257 | 103 | 243 | 97 | 6 | 43-142/17 |
| 156-59-2 | cis-1,2-Dichloroethene | ND | | 250 | 273 | 109 | 260 | 104 | 5 | 55-132/12 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 250 | 259 | 104 | 242 | 97 | 7 | 53-132/14 |
| 78-87-5 | 1,2-Dichloropropane | ND | | 250 | 279 | 112 | 270 | 108 | 3 | 65-128/12 |
| 142-28-9 | 1,3-Dichloropropane | ND | | 250 | 252 | 101 | 247 | 99 | 2 | 68-127/11 |
| 594-20-7 | 2,2-Dichloropropane | ND | | 250 | 293 | 117 | 274 | 110 | 7 | 41-146/16 |
| 563-58-6 | 1,1-Dichloropropene | ND | | 250 | 275 | 110 | 263 | 105 | 4 | 54-139/15 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 250 | 274 | 110 | 269 | 108 | 2 | 66-130/12 |

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5604-35MS | 3D73201.D | 5 | 05/11/12 | NT | n/a | n/a | V3D3165 |
| JB5604-35MSD | 3D73202.D | 5 | 05/11/12 | NT | n/a | n/a | V3D3165 |
| JB5604-35 | 3D73199.D | 5 | 05/11/12 | NT | n/a | n/a | V3D3165 |
| JB5604-35 | 3D73200.D | 50 | 05/11/12 | NT | n/a | n/a | V3D3165 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5604-30, JB5604-31, JB5604-32, JB5604-33, JB5604-34, JB5604-35, JB5604-36

| CAS No. | Compound | JB5604-35 ug/l | Q | Spike ug/l | MS ug/l | MS % | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 250 | 259 | 104 | 257 | 103 | 1 | 64-135/13 |
| 100-41-4 | Ethylbenzene | ND | | 250 | 273 | 109 | 263 | 105 | 4 | 40-140/12 |
| 87-68-3 | Hexachlorobutadiene | ND | | 250 | 264 | 106 | 252 | 101 | 5 | 51-141/16 |
| 98-82-8 | Isopropylbenzene | 1.6 | J | 250 | 291 | 116 | 278 | 111 | 5 | 56-138/13 |
| 99-87-6 | p-Isopropyltoluene | ND | | 250 | 288 | 115 | 276 | 110 | 4 | 58-136/14 |
| 1634-04-4 | Methyl Tert Butyl Ether | 3890 [b] | | 250 | 3670 | -88* [a] | 3550 | -136* [a] | 3 | 54-136/12 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | | 250 | 234 | 94 | 238 | 95 | 2 | 61-138/14 |
| 74-95-3 | Methylene bromide | ND | | 250 | 243 | 97 | 239 | 96 | 2 | 70-134/12 |
| 75-09-2 | Methylene chloride | ND | | 250 | 272 | 109 | 260 | 104 | 5 | 60-130/13 |
| 91-20-3 | Naphthalene | 11.6 | J | 250 | 230 | 87 | 231 | 88 | 0 | 51-149/14 |
| 103-65-1 | n-Propylbenzene | ND | | 250 | 287 | 115 | 275 | 110 | 4 | 51-138/14 |
| 100-42-5 | Styrene | ND | | 250 | 293 | 117 | 282 | 113 | 4 | 59-132/13 |
| 75-65-0 | Tert Butyl Alcohol | 980 | | 1250 | 2160 | 94 | 2120 | 91 | 2 | 57-153/16 |
| 994-05-8 | tert-Amyl Methyl Ether | 43.9 | | 250 | 305 | 104 | 296 | 101 | 3 | 60-133/11 |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | | 250 | 285 | 114 | 277 | 111 | 3 | 59-134/11 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | | 250 | 260 | 104 | 250 | 100 | 4 | 69-134/12 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 250 | 232 | 93 | 228 | 91 | 2 | 65-128/12 |
| 127-18-4 | Tetrachloroethene | ND | | 250 | 262 | 105 | 250 | 100 | 5 | 52-143/15 |
| 108-88-3 | Toluene | ND | | 250 | 278 | 111 | 267 | 107 | 4 | 47-140/12 |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | | 250 | 235 | 94 | 230 | 92 | 2 | 62-137/14 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | | 250 | 244 | 98 | 238 | 95 | 2 | 64-136/14 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 250 | 286 | 114 | 270 | 108 | 6 | 55-146/15 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | | 250 | 250 | 100 | 249 | 100 | 0 | 70-129/12 |
| 79-01-6 | Trichloroethene | ND | | 250 | 276 | 110 | 265 | 106 | 4 | 54-142/14 |
| 75-69-4 | Trichlorofluoromethane | ND | | 250 | 263 | 105 | 247 | 99 | 6 | 45-159/19 |
| 96-18-4 | 1,2,3-Trichloropropane | ND | | 250 | 224 | 90 | 223 | 89 | 0 | 64-137/13 |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | | 250 | 290 | 116 | 279 | 112 | 4 | 40-147/12 |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | | 250 | 280 | 112 | 266 | 106 | 5 | 50-142/13 |
| 75-01-4 | Vinyl chloride | ND | | 250 | 270 | 108 | 252 | 101 | 7 | 42-145/18 |
| | m,p-Xylene | ND | | 500 | 571 | 114 | 546 | 109 | 4 | 39-141/12 |
| 95-47-6 | o-Xylene | 10.1 | | 250 | 290 | 112 | 278 | 107 | 4 | 51-138/12 |
| 1330-20-7 | Xylene (total) | 10.1 | | 750 | 862 | 114 | 824 | 109 | 5 | 42-140/12 |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5604-35MS | 3D73201.D | 5 | 05/11/12 | NT | n/a | n/a | V3D3165 |
| JB5604-35MSD | 3D73202.D | 5 | 05/11/12 | NT | n/a | n/a | V3D3165 |
| JB5604-35 | 3D73199.D | 5 | 05/11/12 | NT | n/a | n/a | V3D3165 |
| JB5604-35 | 3D73200.D | 50 | 05/11/12 | NT | n/a | n/a | V3D3165 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5604-30, JB5604-31, JB5604-32, JB5604-33, JB5604-34, JB5604-35, JB5604-36

| CAS No. | Surrogate Recoveries | MS | MSD | JB5604-35 | JB5604-35 | Limits |
|---|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 94% | 94% | 92% | 93% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 88% | 88% | 89% | 89% | 70-127% |
| 2037-26-5 | Toluene-D8 | 101% | 101% | 101% | 101% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 96% | 96% | 97% | 97% | 76-118% |

(a) Outside control limits due to high level in sample relative to spike amount.
(b) Result is from Run #2.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5604-26MS | 2E77920.D | 1 | 05/11/12 | MAH | n/a | n/a | V2E3498 |
| JB5604-26MSD | 2E77921.D | 1 | 05/11/12 | MAH | n/a | n/a | V2E3498 |
| JB5604-26 | 2E77913.D | 1 | 05/11/12 | MAH | n/a | n/a | V2E3498 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5604-1, JB5604-8, JB5604-9, JB5604-10, JB5604-11, JB5604-25, JB5604-26, JB5604-27, JB5604-29

| CAS No. | Compound | JB5604-26 ug/l | Q | Spike ug/l | MS ug/l | MS % | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | | 50 | 48.6 | 97 | 46.1 | 92 | 5 | 39-150/20 |
| 71-43-2 | Benzene | ND | | 50 | 45.4 | 91 | 45.0 | 90 | 1 | 40-139/12 |
| 108-86-1 | Bromobenzene | ND | | 50 | 50.6 | 101 | 51.5 | 103 | 2 | 67-131/12 |
| 74-97-5 | Bromochloromethane | ND | | 50 | 51.4 | 103 | 50.7 | 101 | 1 | 67-134/12 |
| 75-27-4 | Bromodichloromethane | ND | | 50 | 48.9 | 98 | 48.7 | 97 | 0 | 68-135/12 |
| 75-25-2 | Bromoform | ND | | 50 | 50.6 | 101 | 50.9 | 102 | 1 | 55-141/14 |
| 74-83-9 | Bromomethane | ND | | 50 | 45.2 | 90 | 46.2 | 92 | 2 | 49-145/16 |
| 78-93-3 | 2-Butanone (MEK) | ND | | 50 | 56.5 | 113 | 57.6 | 115 | 2 | 55-141/15 |
| 104-51-8 | n-Butylbenzene | ND | | 50 | 45.9 | 92 | 46.0 | 92 | 0 | 55-139/15 |
| 135-98-8 | sec-Butylbenzene | ND | | 50 | 48.0 | 96 | 47.6 | 95 | 1 | 55-137/14 |
| 98-06-6 | tert-Butylbenzene | ND | | 50 | 49.6 | 99 | 48.7 | 97 | 2 | 58-137/15 |
| 56-23-5 | Carbon tetrachloride | ND | | 50 | 41.5 | 83 | 40.1 | 80 | 3 | 52-155/16 |
| 108-90-7 | Chlorobenzene | ND | | 50 | 45.8 | 92 | 46.4 | 93 | 1 | 66-129/11 |
| 75-00-3 | Chloroethane | ND | | 50 | 45.3 | 91 | 45.7 | 91 | 1 | 50-140/16 |
| 67-66-3 | Chloroform | ND | | 50 | 45.8 | 92 | 44.7 | 89 | 2 | 63-133/13 |
| 74-87-3 | Chloromethane | ND | | 50 | 44.4 | 89 | 44.4 | 89 | 0 | 43-138/17 |
| 95-49-8 | o-Chlorotoluene | ND | | 50 | 48.5 | 97 | 48.8 | 98 | 1 | 62-132/13 |
| 106-43-4 | p-Chlorotoluene | ND | | 50 | 46.9 | 94 | 47.9 | 96 | 2 | 62-129/13 |
| 108-20-3 | Di-Isopropyl ether | ND | | 50 | 57.9 | 116 | 57.5 | 115 | 1 | 51-136/11 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | | 50 | 52.4 | 105 | 54.4 | 109 | 4 | 57-142/14 |
| 124-48-1 | Dibromochloromethane | ND | | 50 | 51.3 | 103 | 52.1 | 104 | 2 | 64-136/12 |
| 106-93-4 | 1,2-Dibromoethane | ND | | 50 | 55.3 | 111 | 56.0 | 112 | 1 | 69-132/11 |
| 95-50-1 | 1,2-Dichlorobenzene | ND | | 50 | 49.7 | 99 | 51.0 | 102 | 3 | 69-129/11 |
| 541-73-1 | 1,3-Dichlorobenzene | ND | | 50 | 46.9 | 94 | 48.0 | 96 | 2 | 66-130/12 |
| 106-46-7 | 1,4-Dichlorobenzene | ND | | 50 | 48.9 | 98 | 50.3 | 101 | 3 | 66-127/12 |
| 75-71-8 | Dichlorodifluoromethane | ND | | 50 | 43.8 | 88 | 42.6 | 85 | 3 | 31-166/20 |
| 75-34-3 | 1,1-Dichloroethane | 0.30 | J | 50 | 47.1 | 94 | 45.8 | 91 | 3 | 58-132/13 |
| 107-06-2 | 1,2-Dichloroethane | ND | | 50 | 48.6 | 97 | 47.4 | 95 | 3 | 62-145/12 |
| 75-35-4 | 1,1-Dichloroethene | 0.32 | J | 50 | 40.4 | 80 | 39.8 | 79 | 1 | 43-142/17 |
| 156-59-2 | cis-1,2-Dichloroethene | ND | | 50 | 49.0 | 98 | 49.3 | 99 | 1 | 55-132/12 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 50 | 43.3 | 87 | 42.9 | 86 | 1 | 53-132/14 |
| 78-87-5 | 1,2-Dichloropropane | ND | | 50 | 49.2 | 98 | 49.5 | 99 | 1 | 65-128/12 |
| 142-28-9 | 1,3-Dichloropropane | ND | | 50 | 54.1 | 108 | 53.6 | 107 | 1 | 68-127/11 |
| 594-20-7 | 2,2-Dichloropropane | ND | | 50 | 45.5 | 91 | 44.3 | 89 | 3 | 41-146/16 |
| 563-58-6 | 1,1-Dichloropropene | ND | | 50 | 42.4 | 85 | 40.7 | 81 | 4 | 54-139/15 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 50 | 50.9 | 102 | 51.6 | 103 | 1 | 66-130/12 |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5604-26MS | 2E77920.D | 1 | 05/11/12 | MAH | n/a | n/a | V2E3498 |
| JB5604-26MSD | 2E77921.D | 1 | 05/11/12 | MAH | n/a | n/a | V2E3498 |
| JB5604-26 | 2E77913.D | 1 | 05/11/12 | MAH | n/a | n/a | V2E3498 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5604-1, JB5604-8, JB5604-9, JB5604-10, JB5604-11, JB5604-25, JB5604-26, JB5604-27, JB5604-29

| CAS No. | Compound | JB5604-26 ug/l | Q | Spike ug/l | MS ug/l | MS % | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 50 | 52.8 | 106 | 52.9 | 106 | 0 | 64-135/13 |
| 100-41-4 | Ethylbenzene | ND | | 50 | 44.6 | 89 | 44.8 | 90 | 0 | 40-140/12 |
| 87-68-3 | Hexachlorobutadiene | ND | | 50 | 43.7 | 87 | 44.3 | 89 | 1 | 51-141/16 |
| 98-82-8 | Isopropylbenzene | ND | | 50 | 48.7 | 97 | 48.6 | 97 | 0 | 56-138/13 |
| 99-87-6 | p-Isopropyltoluene | ND | | 50 | 48.8 | 98 | 49.0 | 98 | 0 | 58-136/14 |
| 1634-04-4 | Methyl Tert Butyl Ether | 0.69 | J | 50 | 53.0 | 105 | 52.5 | 104 | 1 | 54-136/12 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | | 50 | 55.1 | 110 | 55.2 | 110 | 0 | 61-138/14 |
| 74-95-3 | Methylene bromide | ND | | 50 | 52.2 | 104 | 51.9 | 104 | 1 | 70-134/12 |
| 75-09-2 | Methylene chloride | ND | | 50 | 48.3 | 97 | 48.3 | 97 | 0 | 60-130/13 |
| 91-20-3 | Naphthalene | ND | | 50 | 57.2 | 114 | 58.8 | 118 | 3 | 51-149/14 |
| 103-65-1 | n-Propylbenzene | ND | | 50 | 47.5 | 95 | 47.5 | 95 | 0 | 51-138/14 |
| 100-42-5 | Styrene | ND | | 50 | 51.2 | 102 | 51.6 | 103 | 1 | 59-132/13 |
| 75-65-0 | Tert Butyl Alcohol | ND | | 250 | 296 | 118 | 294 | 118 | 1 | 57-153/16 |
| 994-05-8 | tert-Amyl Methyl Ether | ND | | 50 | 55.6 | 111 | 56.3 | 113 | 1 | 60-133/11 |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | | 50 | 58.4 | 117 | 57.8 | 116 | 1 | 59-134/11 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | | 50 | 48.0 | 96 | 48.3 | 97 | 1 | 69-134/12 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 50 | 56.0 | 112 | 56.7 | 113 | 1 | 65-128/12 |
| 127-18-4 | Tetrachloroethene | 0.47 | J | 50 | 40.0 | 79 | 38.8 | 77 | 3 | 52-143/15 |
| 108-88-3 | Toluene | ND | | 50 | 48.6 | 97 | 49.1 | 98 | 1 | 47-140/12 |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | | 50 | 53.2 | 106 | 55.2 | 110 | 4 | 62-137/14 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | | 50 | 50.8 | 102 | 53.0 | 106 | 4 | 64-136/14 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 50 | 42.1 | 84 | 40.8 | 82 | 3 | 55-146/15 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | | 50 | 53.2 | 106 | 54.4 | 109 | 2 | 70-129/12 |
| 79-01-6 | Trichloroethene | ND | | 50 | 43.4 | 87 | 43.1 | 86 | 1 | 54-142/14 |
| 75-69-4 | Trichlorofluoromethane | ND | | 50 | 43.5 | 87 | 41.1 | 82 | 6 | 45-159/19 |
| 96-18-4 | 1,2,3-Trichloropropane | ND | | 50 | 54.1 | 108 | 54.7 | 109 | 1 | 64-137/13 |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | | 50 | 50.1 | 100 | 50.8 | 102 | 1 | 40-147/12 |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | | 50 | 48.8 | 98 | 49.2 | 98 | 1 | 50-142/13 |
| 75-01-4 | Vinyl chloride | ND | | 50 | 43.2 | 86 | 43.1 | 86 | 0 | 42-145/18 |
| | m,p-Xylene | ND | | 100 | 93.3 | 93 | 93.7 | 94 | 0 | 39-141/12 |
| 95-47-6 | o-Xylene | ND | | 50 | 48.5 | 97 | 48.1 | 96 | 1 | 51-138/12 |
| 1330-20-7 | Xylene (total) | ND | | 150 | 142 | 95 | 142 | 95 | 0 | 42-140/12 |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5604-26MS | 2E77920.D | 1 | 05/11/12 | MAH | n/a | n/a | V2E3498 |
| JB5604-26MSD | 2E77921.D | 1 | 05/11/12 | MAH | n/a | n/a | V2E3498 |
| JB5604-26 | 2E77913.D | 1 | 05/11/12 | MAH | n/a | n/a | V2E3498 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5604-1, JB5604-8, JB5604-9, JB5604-10, JB5604-11, JB5604-25, JB5604-26, JB5604-27, JB5604-29

| CAS No. | Surrogate Recoveries | MS | MSD | JB5604-26 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 112% | 113% | 113% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 107% | 107% | 102% | 70-127% |
| 2037-26-5 | Toluene-D8 | 118% | 118% | 114% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 112% | 110% | 109% | 76-118% |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5604-13MS | 2E77956.D | 5 | 05/12/12 | MAH | n/a | n/a | V2E3500 |
| JB5604-13MSD | 2E77957.D | 5 | 05/12/12 | MAH | n/a | n/a | V2E3500 |
| JB5604-13 | 2E77959.D | 5 | 05/12/12 | MAH | n/a | n/a | V2E3500 |
| JB5604-13 | 2E77960.D | 50 | 05/12/12 | MAH | n/a | n/a | V2E3500 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5604-12, JB5604-13, JB5604-14, JB5604-28

| CAS No. | Compound | JB5604-13 ug/l | Q | Spike ug/l | MS ug/l | MS % | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | | 250 | 220 | 88 | 230 | 92 | 4 | 39-150/20 |
| 71-43-2 | Benzene | 22.5 | | 250 | 270 | 99 | 273 | 100 | 1 | 40-139/12 |
| 108-86-1 | Bromobenzene | ND | | 250 | 266 | 106 | 266 | 106 | 0 | 67-131/12 |
| 74-97-5 | Bromochloromethane | ND | | 250 | 262 | 105 | 257 | 103 | 2 | 67-134/12 |
| 75-27-4 | Bromodichloromethane | ND | | 250 | 260 | 104 | 257 | 103 | 1 | 68-135/12 |
| 75-25-2 | Bromoform | ND | | 250 | 257 | 103 | 260 | 104 | 1 | 55-141/14 |
| 74-83-9 | Bromomethane | ND | | 250 | 252 | 101 | 249 | 100 | 1 | 49-145/16 |
| 78-93-3 | 2-Butanone (MEK) | ND | | 250 | 274 | 110 | 271 | 108 | 1 | 55-141/15 |
| 104-51-8 | n-Butylbenzene | ND | | 250 | 261 | 104 | 262 | 105 | 0 | 55-139/15 |
| 135-98-8 | sec-Butylbenzene | ND | | 250 | 271 | 108 | 274 | 110 | 1 | 55-137/14 |
| 98-06-6 | tert-Butylbenzene | ND | | 250 | 277 | 111 | 279 | 112 | 1 | 58-137/15 |
| 56-23-5 | Carbon tetrachloride | ND | | 250 | 256 | 102 | 253 | 101 | 1 | 52-155/16 |
| 108-90-7 | Chlorobenzene | ND | | 250 | 252 | 101 | 251 | 100 | 0 | 66-129/11 |
| 75-00-3 | Chloroethane | ND | | 250 | 259 | 104 | 249 | 100 | 4 | 50-140/16 |
| 67-66-3 | Chloroform | ND | | 250 | 248 | 99 | 248 | 99 | 0 | 63-133/13 |
| 74-87-3 | Chloromethane | ND | | 250 | 257 | 103 | 247 | 99 | 4 | 43-138/17 |
| 95-49-8 | o-Chlorotoluene | ND | | 250 | 266 | 106 | 268 | 107 | 1 | 62-132/13 |
| 106-43-4 | p-Chlorotoluene | ND | | 250 | 262 | 105 | 262 | 105 | 0 | 62-129/13 |
| 108-20-3 | Di-Isopropyl ether | 33.3 | | 250 | 307 | 109 | 306 | 109 | 0 | 51-136/11 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | | 250 | 257 | 103 | 257 | 103 | 0 | 57-142/14 |
| 124-48-1 | Dibromochloromethane | ND | | 250 | 267 | 107 | 262 | 105 | 2 | 64-136/12 |
| 106-93-4 | 1,2-Dibromoethane | ND | | 250 | 275 | 110 | 271 | 108 | 1 | 69-132/11 |
| 95-50-1 | 1,2-Dichlorobenzene | ND | | 250 | 262 | 105 | 262 | 105 | 0 | 69-129/11 |
| 541-73-1 | 1,3-Dichlorobenzene | ND | | 250 | 254 | 102 | 258 | 103 | 2 | 66-130/12 |
| 106-46-7 | 1,4-Dichlorobenzene | ND | | 250 | 262 | 105 | 265 | 106 | 1 | 66-127/12 |
| 75-71-8 | Dichlorodifluoromethane | ND | | 250 | 267 | 107 | 255 | 102 | 5 | 31-166/20 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 250 | 260 | 104 | 257 | 103 | 1 | 58-132/13 |
| 107-06-2 | 1,2-Dichloroethane | ND | | 250 | 250 | 100 | 251 | 100 | 0 | 62-145/12 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 250 | 250 | 100 | 248 | 99 | 1 | 43-142/17 |
| 156-59-2 | cis-1,2-Dichloroethene | ND | | 250 | 270 | 108 | 270 | 108 | 0 | 55-132/12 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 250 | 246 | 98 | 242 | 97 | 2 | 53-132/14 |
| 78-87-5 | 1,2-Dichloropropane | ND | | 250 | 260 | 104 | 263 | 105 | 1 | 65-128/12 |
| 142-28-9 | 1,3-Dichloropropane | ND | | 250 | 267 | 107 | 269 | 108 | 1 | 68-127/11 |
| 594-20-7 | 2,2-Dichloropropane | ND | | 250 | 270 | 108 | 264 | 106 | 2 | 41-146/16 |
| 563-58-6 | 1,1-Dichloropropene | ND | | 250 | 256 | 102 | 256 | 102 | 0 | 54-139/15 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 250 | 274 | 110 | 266 | 106 | 3 | 66-130/12 |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5604-13MS | 2E77956.D | 5 | 05/12/12 | MAH | n/a | n/a | V2E3500 |
| JB5604-13MSD | 2E77957.D | 5 | 05/12/12 | MAH | n/a | n/a | V2E3500 |
| JB5604-13 | 2E77959.D | 5 | 05/12/12 | MAH | n/a | n/a | V2E3500 |
| JB5604-13 | 2E77960.D | 50 | 05/12/12 | MAH | n/a | n/a | V2E3500 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5604-12, JB5604-13, JB5604-14, JB5604-28

| CAS No. | Compound | JB5604-13 ug/l | Q | Spike ug/l | MS ug/l | MS % | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 250 | 279 | 112 | 273 | 109 | 2 | 64-135/13 |
| 100-41-4 | Ethylbenzene | ND | | 250 | 259 | 104 | 257 | 103 | 1 | 40-140/12 |
| 87-68-3 | Hexachlorobutadiene | ND | | 250 | 249 | 100 | 251 | 100 | 1 | 51-141/16 |
| 98-82-8 | Isopropylbenzene | 1.1 | J | 250 | 275 | 110 | 278 | 111 | 1 | 56-138/13 |
| 99-87-6 | p-Isopropyltoluene | ND | | 250 | 275 | 110 | 277 | 111 | 1 | 58-136/14 |
| 1634-04-4 | Methyl Tert Butyl Ether | 4030 [b] | | 250 | 3570 | -184* [a] | 3560 | -188* [a] | 0 | 54-136/12 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | | 250 | 260 | 104 | 259 | 104 | 0 | 61-138/14 |
| 74-95-3 | Methylene bromide | ND | | 250 | 267 | 107 | 261 | 104 | 2 | 70-134/12 |
| 75-09-2 | Methylene chloride | ND | | 250 | 252 | 101 | 251 | 100 | 0 | 60-130/13 |
| 91-20-3 | Naphthalene | ND | | 250 | 285 | 114 | 289 | 116 | 1 | 51-149/14 |
| 103-65-1 | n-Propylbenzene | ND | | 250 | 268 | 107 | 272 | 109 | 1 | 51-138/14 |
| 100-42-5 | Styrene | ND | | 250 | 282 | 113 | 280 | 112 | 1 | 59-132/13 |
| 75-65-0 | Tert Butyl Alcohol | 1120 | | 1250 | 2180 | 85 | 2260 | 91 | 4 | 57-153/16 |
| 994-05-8 | tert-Amyl Methyl Ether | 61.3 | | 250 | 317 | 102 | 323 | 105 | 2 | 60-133/11 |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | | 250 | 279 | 112 | 280 | 112 | 0 | 59-134/11 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | | 250 | 259 | 104 | 254 | 102 | 2 | 69-134/12 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 250 | 267 | 107 | 269 | 108 | 1 | 65-128/12 |
| 127-18-4 | Tetrachloroethene | 1.7 | J | 250 | 235 | 93 | 229 | 91 | 3 | 52-143/15 |
| 108-88-3 | Toluene | ND | | 250 | 277 | 111 | 278 | 111 | 0 | 47-140/12 |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | | 250 | 271 | 108 | 277 | 111 | 2 | 62-137/14 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | | 250 | 265 | 106 | 270 | 108 | 2 | 64-136/14 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 250 | 252 | 101 | 251 | 100 | 0 | 55-146/15 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | | 250 | 270 | 108 | 269 | 108 | 0 | 70-129/12 |
| 79-01-6 | Trichloroethene | ND | | 250 | 250 | 100 | 246 | 98 | 2 | 54-142/14 |
| 75-69-4 | Trichlorofluoromethane | ND | | 250 | 252 | 101 | 243 | 97 | 4 | 45-159/19 |
| 96-18-4 | 1,2,3-Trichloropropane | ND | | 250 | 256 | 102 | 267 | 107 | 4 | 64-137/13 |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | | 250 | 274 | 110 | 277 | 111 | 1 | 40-147/12 |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | | 250 | 270 | 108 | 273 | 109 | 1 | 50-142/13 |
| 75-01-4 | Vinyl chloride | ND | | 250 | 264 | 106 | 256 | 102 | 3 | 42-145/18 |
| | m,p-Xylene | ND | | 500 | 533 | 107 | 531 | 106 | 0 | 39-141/12 |
| 95-47-6 | o-Xylene | 2.4 | J | 250 | 268 | 106 | 266 | 105 | 1 | 51-138/12 |
| 1330-20-7 | Xylene (total) | 2.4 | J | 750 | 801 | 106 | 797 | 106 | 1 | 42-140/12 |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5604-13MS | 2E77956.D | 5 | 05/12/12 | MAH | n/a | n/a | V2E3500 |
| JB5604-13MSD | 2E77957.D | 5 | 05/12/12 | MAH | n/a | n/a | V2E3500 |
| JB5604-13 | 2E77959.D | 5 | 05/12/12 | MAH | n/a | n/a | V2E3500 |
| JB5604-13 | 2E77960.D | 50 | 05/12/12 | MAH | n/a | n/a | V2E3500 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5604-12, JB5604-13, JB5604-14, JB5604-28

| CAS No. | Surrogate Recoveries | MS | MSD | JB5604-13 | JB5604-13 | Limits |
|---|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 113% | 111% | 114% | 112% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 112% | 108% | 111% | 112% | 70-127% |
| 2037-26-5 | Toluene-D8 | 119% | 119% | 114% | 114% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 110% | 110% | 110% | 108% | 76-118% |

(a) Outside control limits due to high level in sample relative to spike amount.
(b) Result is from Run #2.

# Instrument Performance Check (BFB)



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Sample:** V2E3463-BFB
**Lab File ID:** 2E77212.D
**Instrument ID:** GCMS2E
**Injection Date:** 04/20/12
**Injection Time:** 16:18



| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 13333 | 17.5 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 36755 | 48.2 | | Pass |
| 95 | Base peak, 100% relative abundance | 76291 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 4951 | 6.49 | | Pass |
| 173 | Less than 2.0% of mass 174 | 379 | 0.50 | (0.57) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 66509 | 87.2 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 5457 | 7.15 | (8.20) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 64389 | 84.4 | (96.8) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 3958 | 5.19 | (6.15) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2E3463-IC3463 | 2E77215.D | 04/20/12 | 17:50 | 01:32 | Initial cal 2 |
| ZZZZZZ | 2E77216A.D | 04/20/12 | 18:19 | 02:01 | (unrelated sample) |
| V2E3463-IC3463 | 2E77216.D | 04/20/12 | 18:19 | 02:01 | Initial cal 0.5 |
| V2E3463-IC3463 | 2E77217.D | 04/20/12 | 18:47 | 02:29 | Initial cal 10 |
| V2E3463-IC3463 | 2E77218.D | 04/20/12 | 19:16 | 02:58 | Initial cal 20 |
| V2E3463-ICC3463 | 2E77219.D | 04/20/12 | 19:45 | 03:27 | Initial cal 50 |
| V2E3463-IC3463 | 2E77220.D | 04/20/12 | 20:14 | 03:56 | Initial cal 100 |
| V2E3463-IC3463 | 2E77221.D | 04/20/12 | 20:43 | 04:25 | Initial cal 200 |
| V2E3463-IC3463 | 2E77222A.D | 04/20/12 | 21:40 | 05:22 | Initial cal 5 |
| ZZZZZZ | 2E77223A.D | 04/20/12 | 22:09 | 05:51 | (unrelated sample) |
| V2E3463-IC3463 | 2E77223.D | 04/20/12 | 22:09 | 05:51 | Initial cal 1 |
| V2E3463-IC3463 | 2E77224.D | 04/20/12 | 22:38 | 06:20 | Initial cal 75 |
| V2E3463-ICV3463 | 2E77225.D | 04/20/12 | 23:07 | 06:49 | Initial cal verification 50 |
| ZZZZZZ | 2E77227.D | 04/21/12 | 00:04 | 07:46 | (unrelated sample) |

# Instrument Performance Check (BFB)



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Sample:** V2E3489-BFB
**Lab File ID:** 2E77743.D
**Instrument ID:** GCMS2E
**Injection Date:** 05/05/12
**Injection Time:** 19:42



| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 14208 | 17.7 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 40989 | 51.0 | | Pass |
| 95 | Base peak, 100% relative abundance | 80299 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 5307 | 6.61 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 72709 | 90.5 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 5937 | 7.39 | (8.17) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 71384 | 88.9 | (98.2) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 4882 | 6.08 | (6.84) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2E3489-CC3463 | 2E77744.D | 05/05/12 | 20:10 | 00:28 | Continuing cal 50 |
| V2E3489-MB | 2E77746.D | 05/05/12 | 21:08 | 01:26 | Method Blank |
| V2E3489-BS | 2E77747.D | 05/05/12 | 21:37 | 01:55 | Blank Spike |
| JB5604-11MS | 2E77748.D | 05/05/12 | 22:06 | 02:24 | Matrix Spike |
| JB5604-11MSD | 2E77749.D | 05/05/12 | 22:34 | 02:52 | Matrix Spike Duplicate |
| JB5604-11 | 2E77751.D | 05/05/12 | 23:32 | 03:50 | 137675-MW-15S |
| JB5604-11 | 2E77752.D | 05/06/12 | 00:01 | 04:19 | 137675-MW-15S |
| JB5604-15 | 2E77753.D | 05/06/12 | 00:29 | 04:47 | 137675-MW-17S |
| JB5604-15 | 2E77754.D | 05/06/12 | 00:58 | 05:16 | 137675-MW-17S |
| JB5604-16 | 2E77755.D | 05/06/12 | 01:27 | 05:45 | 137675-MW-17W |
| JB5604-17 | 2E77756.D | 05/06/12 | 01:55 | 06:13 | 137675-MW-18 |
| JB5604-17 | 2E77757.D | 05/06/12 | 02:24 | 06:42 | 137675-MW-18 |
| JB5604-18 | 2E77758.D | 05/06/12 | 02:53 | 07:11 | 137675-MW-24S |
| JB5604-19 | 2E77759.D | 05/06/12 | 03:22 | 07:40 | 137675-MW-24D |
| JB5604-20 | 2E77760.D | 05/06/12 | 03:51 | 08:09 | 137675-MW-25S |
| JB5604-21 | 2E77761.D | 05/06/12 | 04:19 | 08:37 | 137675-MW-25D |
| JB5604-22 | 2E77762.D | 05/06/12 | 04:48 | 09:06 | 137675-MW-26S |
| JB5604-23 | 2E77763.D | 05/06/12 | 05:17 | 09:35 | 137675-MW-26D |
| JB5604-23 | 2E77764.D | 05/06/12 | 05:46 | 10:04 | 137675-MW-26D |
| JB5604-24 | 2E77765.D | 05/06/12 | 06:15 | 10:33 | 137675-RW-27 |
| JB5604-24 | 2E77766.D | 05/06/12 | 06:43 | 11:01 | 137675-RW-27 |

# Instrument Performance Check (BFB)



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Sample:** V2E3495-BFB
**Lab File ID:** 2E77848.D
**Instrument ID:** GCMS2E
**Injection Date:** 05/09/12
**Injection Time:** 19:42

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 16647 | 20.8 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 41581 | 52.0 | | Pass |
| 95 | Base peak, 100% relative abundance | 79955 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 5255 | 6.57 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 71811 | 89.8 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 6074 | 7.60 | (8.46) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 71704 | 89.7 | (99.9) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 4344 | 5.43 | (6.06) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2E3495-IC3495 | 2E77849.D | 05/09/12 | 20:11 | 00:29 | Initial cal 0.5 |
| V2E3495-IC3495 | 2E77850.D | 05/09/12 | 20:40 | 00:58 | Initial cal 1 |
| V2E3495-IC3495 | 2E77851.D | 05/09/12 | 21:08 | 01:26 | Initial cal 2 |
| V2E3495-IC3495 | 2E77852.D | 05/09/12 | 21:37 | 01:55 | Initial cal 5 |
| V2E3495-IC3495 | 2E77853.D | 05/09/12 | 22:06 | 02:24 | Initial cal 10 |
| V2E3495-IC3495 | 2E77854.D | 05/09/12 | 22:35 | 02:53 | Initial cal 20 |
| V2E3495-ICC3495 | 2E77855.D | 05/09/12 | 23:04 | 03:22 | Initial cal 50 |
| V2E3495-IC3495 | 2E77856.D | 05/09/12 | 23:33 | 03:51 | Initial cal 100 |
| V2E3495-IC3495 | 2E77857.D | 05/10/12 | 00:01 | 04:19 | Initial cal 200 |

# Instrument Performance Check (BFB)



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Sample:** V2E3498-BFB
**Lab File ID:** 2E77906.D
**Instrument ID:** GCMS2E
**Injection Date:** 05/11/12
**Injection Time:** 08:11



| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 17809 | 18.9 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 46221 | 49.1 | | Pass |
| 95 | Base peak, 100% relative abundance | 94074 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 6164 | 6.55 | | Pass |
| 173 | Less than 2.0% of mass 174 | 190 | 0.20 | (0.23) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 84258 | 89.6 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 6851 | 7.28 | (8.13) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 80458 | 85.5 | (95.5) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 5287 | 5.62 | (6.57) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2E3498-CC3495 | 2E77908.D | 05/11/12 | 09:40 | 01:29 | Continuing cal 20 |
| V2E3498-MB | 2E77910.D | 05/11/12 | 10:39 | 02:28 | Method Blank |
| V2E3498-BS | 2E77911.D | 05/11/12 | 11:07 | 02:56 | Blank Spike |
| JB5604-26 | 2E77913.D | 05/11/12 | 12:13 | 04:02 | 137675-MW-05D |
| JB5604-25 | 2E77914.D | 05/11/12 | 12:42 | 04:31 | 137675-750 BNS |
| JB5604-27 | 2E77915.D | 05/11/12 | 13:11 | 05:00 | 137675-MW-05R |
| JB5604-1 | 2E77916.D | 05/11/12 | 13:40 | 05:29 | 137675-MW-06D |
| JB5604-1 | 2E77917.D | 05/11/12 | 14:09 | 05:58 | 137675-MW-06D |
| JB5604-8 | 2E77918.D | 05/11/12 | 14:38 | 06:27 | 137675-MW-11S |
| JB5604-8 | 2E77919.D | 05/11/12 | 15:07 | 06:56 | 137675-MW-11S |
| JB5604-26MS | 2E77920.D | 05/11/12 | 15:36 | 07:25 | Matrix Spike |
| JB5604-26MSD | 2E77921.D | 05/11/12 | 16:05 | 07:54 | Matrix Spike Duplicate |
| JB5604-9 | 2E77923.D | 05/11/12 | 17:02 | 08:51 | 137675-MW-12 |
| JB5604-9 | 2E77924.D | 05/11/12 | 17:31 | 09:20 | 137675-MW-12 |
| JB5604-11 | 2E77925.D | 05/11/12 | 18:00 | 09:49 | 137675-MW-15S |
| JB5604-10 | 2E77926.D | 05/11/12 | 18:29 | 10:18 | 137675-MW-15D |
| JB5604-10 | 2E77927.D | 05/11/12 | 18:57 | 10:46 | 137675-MW-15D |
| JB5604-29 | 2E77928.D | 05/11/12 | 19:26 | 11:15 | 710 BRYANTS NURSERY |

# Instrument Performance Check (BFB)



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Sample:** V2E3500-BFB
**Lab File ID:** 2E77951A.D
**Instrument ID:** GCMS2E
**Injection Date:** 05/12/12
**Injection Time:** 08:07



| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 19200 | 20.1 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 49315 | 51.7 | | Pass |
| 95 | Base peak, 100% relative abundance | 95357 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 5918 | 6.21 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 81781 | 85.8 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 7207 | 7.56 | (8.81) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 81571 | 85.5 | (99.7) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 5089 | 5.34 | (6.24) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2E3500-CC3495 | 2E77952.D | 05/12/12 | 08:41 | 00:34 | Continuing cal 20 |
| V2E3500-MB | 2E77954.D | 05/12/12 | 09:43 | 01:36 | Method Blank |
| V2E3500-BS | 2E77955.D | 05/12/12 | 10:30 | 02:23 | Blank Spike |
| JB5604-13MS | 2E77956.D | 05/12/12 | 11:04 | 02:57 | Matrix Spike |
| JB5604-13MSD | 2E77957.D | 05/12/12 | 11:33 | 03:26 | Matrix Spike Duplicate |
| JB5604-13 | 2E77959.D | 05/12/12 | 12:31 | 04:24 | 137675-MW-16S |
| JB5604-13 | 2E77960.D | 05/12/12 | 13:00 | 04:53 | 137675-MW-16S |
| JB5604-12 | 2E77961.D | 05/12/12 | 13:28 | 05:21 | 137675-MW-16D |
| JB5604-12 | 2E77962.D | 05/12/12 | 13:57 | 05:50 | 137675-MW-16D |
| JB5604-14 | 2E77963.D | 05/12/12 | 14:26 | 06:19 | 137675-MW-17D |
| JB5604-14 | 2E77964.D | 05/12/12 | 14:55 | 06:48 | 137675-MW-17D |
| JB5604-28 | 2E77965.D | 05/12/12 | 15:24 | 07:17 | 137675-MW-05S |
| JB5604-28 | 2E77966.D | 05/12/12 | 15:52 | 07:45 | 137675-MW-05S |
| ZZZZZZ | 2E77968.D | 05/12/12 | 16:50 | 08:43 | (unrelated sample) |
| ZZZZZZ | 2E77969.D | 05/12/12 | 17:19 | 09:12 | (unrelated sample) |
| ZZZZZZ | 2E77970.D | 05/12/12 | 17:48 | 09:41 | (unrelated sample) |
| ZZZZZZ | 2E77971.D | 05/12/12 | 18:16 | 10:09 | (unrelated sample) |
| ZZZZZZ | 2E77972.D | 05/12/12 | 18:45 | 10:38 | (unrelated sample) |
| ZZZZZZ | 2E77973.D | 05/12/12 | 19:14 | 11:07 | (unrelated sample) |

# Instrument Performance Check (BFB)



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Sample:** V3D3139-BFB
**Lab File ID:** 3D72578.D
**Instrument ID:** GCMS3D
**Injection Date:** 04/24/12
**Injection Time:** 10:50



| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 10843 | 19.6 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 26221 | 47.4 | | Pass |
| 95 | Base peak, 100% relative abundance | 55277 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 3737 | 6.76 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 46381 | 83.9 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 3440 | 6.22 | (7.42) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 45235 | 81.8 | (97.5) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 2989 | 5.41 | (6.61) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V3D3139-IC3139 | 3D72579.D | 04/24/12 | 11:26 | 00:36 | Initial cal 5 |
| V3D3139-IC3139 | 3D72580.D | 04/24/12 | 11:54 | 01:04 | Initial cal 2 |
| V3D3139-IC3139 | 3D72581.D | 04/24/12 | 12:22 | 01:32 | Initial cal 1 |
| ZZZZZZ | 3D72581A.D | 04/24/12 | 12:22 | 01:32 | (unrelated sample) |
| V3D3139-IC3139 | 3D72583.D | 04/24/12 | 13:18 | 02:28 | Initial cal 10 |
| V3D3139-IC3139 | 3D72584.D | 04/24/12 | 13:45 | 02:55 | Initial cal 20 |
| V3D3139-ICC3139 | 3D72585.D | 04/24/12 | 14:14 | 03:24 | Initial cal 50 |
| V3D3139-IC3139 | 3D72586.D | 04/24/12 | 14:41 | 03:51 | Initial cal 100 |
| V3D3139-IC3139 | 3D72587.D | 04/24/12 | 15:09 | 04:19 | Initial cal 200 |
| V3D3139-IC3139 | 3D72590.D | 04/24/12 | 16:37 | 05:47 | Initial cal 0.5 |
| ZZZZZZ | 3D72590A.D | 04/24/12 | 16:37 | 05:47 | (unrelated sample) |
| V3D3139-ICV3139 | 3D72591.D | 04/24/12 | 17:05 | 06:15 | Initial cal verification 50 |
| ZZZZZZ | 3D72593.D | 04/24/12 | 18:01 | 07:11 | (unrelated sample) |

# Instrument Performance Check (BFB)



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Sample:** V3D3165-BFB
**Lab File ID:** 3D73189.D
**Instrument ID:** GCMS3D
**Injection Date:** 05/11/12
**Injection Time:** 08:27

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 11469 | 18.9 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 27978 | 46.2 | | Pass |
| 95 | Base peak, 100% relative abundance | 60549 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 4218 | 6.97 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 49602 | 81.9 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 3833 | 6.33 | (7.73) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 48789 | 80.6 | (98.4) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 3175 | 5.24 | (6.51) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V3D3165-CC3139 | 3D73190.D | 05/11/12 | 09:06 | 00:39 | Continuing cal 20 |
| V3D3165-MB1 | 3D73192.D | 05/11/12 | 10:08 | 01:41 | Method Blank |
| V3D3165-BS | 3D73193.D | 05/11/12 | 10:36 | 02:09 | Blank Spike |
| JB5604-36 | 3D73195.D | 05/11/12 | 11:32 | 03:05 | 137675-MW-14S |
| JB5604-36 | 3D73196.D | 05/11/12 | 12:00 | 03:33 | 137675-MW-14S |
| JB5604-34 | 3D73197.D | 05/11/12 | 12:28 | 04:01 | 137675-MW-13S |
| JB5604-34 | 3D73198.D | 05/11/12 | 12:56 | 04:29 | 137675-MW-13S |
| JB5604-35 | 3D73199.D | 05/11/12 | 13:24 | 04:57 | 137675-MW-14D |
| JB5604-35 | 3D73200.D | 05/11/12 | 13:52 | 05:25 | 137675-MW-14D |
| JB5604-35MS | 3D73201.D | 05/11/12 | 14:20 | 05:53 | Matrix Spike |
| JB5604-35MSD | 3D73202.D | 05/11/12 | 14:48 | 06:21 | Matrix Spike Duplicate |
| JB5604-30 | 3D73204.D | 05/11/12 | 15:43 | 07:16 | 711 BRYANTS NURSERY |
| JB5604-31 | 3D73205.D | 05/11/12 | 16:11 | 07:44 | 720 BRYANTS NURSERY |
| JB5604-32 | 3D73206.D | 05/11/12 | 16:39 | 08:12 | 721 BRYANTS NURSERY |
| JB5604-33 | 3D73207.D | 05/11/12 | 17:07 | 08:40 | 137675-MW-13D |
| ZZZZZZ | 3D73208.D | 05/11/12 | 17:35 | 09:08 | (unrelated sample) |
| ZZZZZZ | 3D73209.D | 05/11/12 | 18:03 | 09:36 | (unrelated sample) |
| ZZZZZZ | 3D73210.D | 05/11/12 | 18:31 | 10:04 | (unrelated sample) |
| ZZZZZZ | 3D73211.D | 05/11/12 | 18:59 | 10:32 | (unrelated sample) |
| ZZZZZZ | 3D73212.D | 05/11/12 | 19:26 | 10:59 | (unrelated sample) |
| ZZZZZZ | 3D73213.D | 05/11/12 | 19:54 | 11:27 | (unrelated sample) |

# Instrument Performance Check (BFB)



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Sample:** V4B781-BFB
**Lab File ID:** 4B17807.D
**Instrument ID:** GCMS4B
**Injection Date:** 05/03/12
**Injection Time:** 10:10



| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 14.99 - 40.0% of mass 95 | 14392 | 18.9 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 35997 | 47.2 | | Pass |
| 95 | Base peak, 100% relative abundance | 76266 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 5112 | 6.70 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 69877 | 91.6 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 5455 | 7.15 | (7.81) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 68365 | 89.6 | (97.8) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 4544 | 5.96 | (6.65) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V4B781-IC781 | 4B17808.D | 05/03/12 | 10:40 | 00:30 | Initial cal 0.5 |
| V4B781-IC781 | 4B17810.D | 05/03/12 | 11:36 | 01:26 | Initial cal 2 |
| V4B781-IC781 | 4B17811.D | 05/03/12 | 12:03 | 01:53 | Initial cal 5 |
| V4B781-IC781 | 4B17812.D | 05/03/12 | 12:31 | 02:21 | Initial cal 10 |
| V4B781-IC781 | 4B17813.D | 05/03/12 | 12:59 | 02:49 | Initial cal 20 |
| V4B781-ICC781 | 4B17814.D | 05/03/12 | 13:26 | 03:16 | Initial cal 50 |
| V4B781-IC781 | 4B17815.D | 05/03/12 | 13:54 | 03:44 | Initial cal 100 |
| V4B781-IC781 | 4B17816.D | 05/03/12 | 14:21 | 04:11 | Initial cal 200 |
| V4B781-IC781 | 4B17818A.D | 05/03/12 | 15:45 | 05:35 | Initial cal 1 |
| V4B781-ICV781 | 4B17819.D | 05/03/12 | 16:12 | 06:02 | Initial cal verification 50 |

# Instrument Performance Check (BFB)



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Sample:** V4B790-BFB
**Lab File ID:** 4B17990.D
**Instrument ID:** GCMS4B
**Injection Date:** 05/10/12
**Injection Time:** 09:14

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 14.99 - 40.0% of mass 95 | 12214 | 18.7 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 30437 | 46.5 | | Pass |
| 95 | Base peak, 100% relative abundance | 65482 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 4373 | 6.68 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 61624 | 94.1 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 4740 | 7.24 | (7.69) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 60269 | 92.0 | (97.8) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 3940 | 6.02 | (6.54) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V4B790-CC781 | 4B17992.D | 05/10/12 | 10:10 | 00:56 | Continuing cal 20 |
| V4B790-MB | 4B17994.D | 05/10/12 | 11:05 | 01:51 | Method Blank |
| V4B790-BS | 4B17995.D | 05/10/12 | 11:39 | 02:25 | Blank Spike |
| ZZZZZZ | 4B17997.D | 05/10/12 | 12:47 | 03:33 | (unrelated sample) |
| ZZZZZZ | 4B17998.D | 05/10/12 | 13:15 | 04:01 | (unrelated sample) |
| ZZZZZZ | 4B17999.D | 05/10/12 | 13:42 | 04:28 | (unrelated sample) |
| ZZZZZZ | 4B18000.D | 05/10/12 | 14:10 | 04:56 | (unrelated sample) |
| JB5941-1 | 4B18001.D | 05/10/12 | 14:38 | 05:24 | (used for QC only; not part of job JB5604) |
| JB5604-2 | 4B18002.D | 05/10/12 | 15:06 | 05:52 | 137675-MW-06R |
| JB5604-3 | 4B18003.D | 05/10/12 | 15:33 | 06:19 | 137675-MW-06S |
| ZZZZZZ | 4B18004.D | 05/10/12 | 16:01 | 06:47 | (unrelated sample) |
| JB5941-1MS | 4B18005.D | 05/10/12 | 16:29 | 07:15 | Matrix Spike |
| JB5941-1MSD | 4B18006.D | 05/10/12 | 16:56 | 07:42 | Matrix Spike Duplicate |
| ZZZZZZ | 4B18007.D | 05/10/12 | 17:24 | 08:10 | (unrelated sample) |
| ZZZZZZ | 4B18008.D | 05/10/12 | 17:52 | 08:38 | (unrelated sample) |
| ZZZZZZ | 4B18009.D | 05/10/12 | 18:20 | 09:06 | (unrelated sample) |
| ZZZZZZ | 4B18010.D | 05/10/12 | 18:48 | 09:34 | (unrelated sample) |
| JB5604-4 | 4B18011.D | 05/10/12 | 19:15 | 10:01 | 137675-MW-07D |
| JB5604-5 | 4B18012.D | 05/10/12 | 19:43 | 10:29 | 137675-MW-07S |
| JB5604-6 | 4B18013.D | 05/10/12 | 20:11 | 10:57 | 137675-MW-11D |
| JB5604-7 | 4B18014.D | 05/10/12 | 20:39 | 11:25 | 137675-MW-11R |

# Volatile Surrogate Recovery Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Method:** SW846 8260B **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 | S2 | S3 | S4 |
|---|---|---|---|---|---|
| JB5604-1 | 2E77916.D | 113.0 | 106.0 | 113.0 | 109.0 |
| JB5604-1 | 2E77917.D | 112.0 | 105.0 | 114.0 | 109.0 |
| JB5604-2 | 4B18002.D | 106.0 | 103.0 | 106.0 | 100.0 |
| JB5604-3 | 4B18003.D | 106.0 | 104.0 | 106.0 | 100.0 |
| JB5604-4 | 4B18011.D | 105.0 | 101.0 | 106.0 | 101.0 |
| JB5604-5 | 4B18012.D | 105.0 | 102.0 | 107.0 | 100.0 |
| JB5604-6 | 4B18013.D | 106.0 | 104.0 | 106.0 | 100.0 |
| JB5604-7 | 4B18014.D | 106.0 | 103.0 | 107.0 | 100.0 |
| JB5604-8 | 2E77918.D | 113.0 | 107.0 | 112.0 | 109.0 |
| JB5604-8 | 2E77919.D | 114.0 | 106.0 | 113.0 | 107.0 |
| JB5604-9 | 2E77923.D | 114.0 | 106.0 | 113.0 | 109.0 |
| JB5604-9 | 2E77924.D | 113.0 | 107.0 | 113.0 | 108.0 |
| JB5604-10 | 2E77926.D | 115.0 | 108.0 | 112.0 | 108.0 |
| JB5604-10 | 2E77927.D | 114.0 | 109.0 | 113.0 | 110.0 |
| JB5604-11 | 2E77752.D | 110.0 | 113.0 | 110.0 | 106.0 |
| JB5604-11 | 2E77925.D | 114.0 | 108.0 | 113.0 | 107.0 |
| JB5604-11 | 2E77751.D | 109.0 | 109.0 | 109.0 | 108.0 |
| JB5604-12 | 2E77961.D | 114.0 | 110.0 | 113.0 | 109.0 |
| JB5604-12 | 2E77962.D | 114.0 | 111.0 | 115.0 | 109.0 |
| JB5604-13 | 2E77959.D | 114.0 | 111.0 | 114.0 | 110.0 |
| JB5604-13 | 2E77960.D | 112.0 | 112.0 | 114.0 | 108.0 |
| JB5604-14 | 2E77963.D | 115.0 | 112.0 | 115.0 | 109.0 |
| JB5604-14 | 2E77964.D | 116.0 | 114.0 | 116.0 | 109.0 |
| JB5604-15 | 2E77754.D | 110.0 | 113.0 | 110.0 | 108.0 |
| JB5604-15 | 2E77753.D | 110.0 | 112.0 | 106.0 | 107.0 |
| JB5604-16 | 2E77755.D | 109.0 | 116.0 | 107.0 | 108.0 |
| JB5604-17 | 2E77757.D | 107.0 | 115.0 | 108.0 | 104.0 |
| JB5604-17 | 2E77756.D | 108.0 | 111.0 | 107.0 | 107.0 |
| JB5604-18 | 2E77758.D | 111.0 | 113.0 | 108.0 | 107.0 |
| JB5604-19 | 2E77759.D | 108.0 | 115.0 | 109.0 | 107.0 |
| JB5604-20 | 2E77760.D | 111.0 | 116.0 | 111.0 | 108.0 |
| JB5604-21 | 2E77761.D | 111.0 | 114.0 | 108.0 | 107.0 |
| JB5604-22 | 2E77762.D | 112.0 | 116.0 | 109.0 | 106.0 |
| JB5604-23 | 2E77764.D | 113.0 | 117.0 | 111.0 | 108.0 |
| JB5604-23 | 2E77763.D | 108.0 | 116.0 | 107.0 | 108.0 |
| JB5604-24 | 2E77766.D | 111.0 | 118.0 | 108.0 | 106.0 |
| JB5604-24 | 2E77765.D | 109.0 | 113.0 | 107.0 | 104.0 |
| JB5604-25 | 2E77914.D | 113.0 | 104.0 | 113.0 | 108.0 |
| JB5604-26 | 2E77913.D | 113.0 | 102.0 | 114.0 | 109.0 |
| JB5604-27 | 2E77915.D | 113.0 | 104.0 | 113.0 | 107.0 |

# Volatile Surrogate Recovery Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Method:** SW846 8260B **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 | S2 | S3 | S4 |
|---|---|---|---|---|---|
| JB5604-28 | 2E77966.D | 116.0 | 115.0 | 116.0 | 110.0 |
| JB5604-28 | 2E77965.D | 116.0 | 115.0 | 114.0 | 109.0 |
| JB5604-29 | 2E77928.D | 113.0 | 110.0 | 114.0 | 109.0 |
| JB5604-30 | 3D73204.D | 93.0 | 89.0 | 100.0 | 97.0 |
| JB5604-31 | 3D73205.D | 93.0 | 89.0 | 98.0 | 96.0 |
| JB5604-32 | 3D73206.D | 93.0 | 87.0 | 100.0 | 97.0 |
| JB5604-33 | 3D73207.D | 93.0 | 90.0 | 100.0 | 97.0 |
| JB5604-34 | 3D73197.D | 92.0 | 89.0 | 101.0 | 98.0 |
| JB5604-34 | 3D73198.D | 93.0 | 89.0 | 100.0 | 98.0 |
| JB5604-35 | 3D73199.D | 92.0 | 89.0 | 101.0 | 97.0 |
| JB5604-35 | 3D73200.D | 93.0 | 89.0 | 101.0 | 97.0 |
| JB5604-36 | 3D73195.D | 92.0 | 89.0 | 100.0 | 97.0 |
| JB5604-36 | 3D73196.D | 93.0 | 88.0 | 100.0 | 98.0 |
| JB5604-11MS | 2E77748.D | 108.0 | 111.0 | 114.0 | 106.0 |
| JB5604-11MSD | 2E77749.D | 108.0 | 108.0 | 114.0 | 107.0 |
| JB5604-13MS | 2E77956.D | 113.0 | 112.0 | 119.0 | 110.0 |
| JB5604-13MSD | 2E77957.D | 111.0 | 108.0 | 119.0 | 110.0 |
| JB5604-26MS | 2E77920.D | 112.0 | 107.0 | 118.0 | 112.0 |
| JB5604-26MSD | 2E77921.D | 113.0 | 107.0 | 118.0 | 110.0 |
| JB5604-35MS | 3D73201.D | 94.0 | 88.0 | 101.0 | 96.0 |
| JB5604-35MSD | 3D73202.D | 94.0 | 88.0 | 101.0 | 96.0 |
| JB5941-1MS | 4B18005.D | 104.0 | 100.0 | 106.0 | 102.0 |
| JB5941-1MSD | 4B18006.D | 103.0 | 98.0 | 107.0 | 101.0 |
| V2E3489-BS | 2E77747.D | 108.0 | 110.0 | 113.0 | 106.0 |
| V2E3489-MB | 2E77746.D | 110.0 | 112.0 | 108.0 | 108.0 |
| V2E3498-BS | 2E77911.D | 110.0 | 100.0 | 119.0 | 111.0 |
| V2E3498-MB | 2E77910.D | 113.0 | 103.0 | 113.0 | 107.0 |
| V2E3500-BS | 2E77955.D | 112.0 | 112.0 | 119.0 | 110.0 |
| V2E3500-MB | 2E77954.D | 113.0 | 114.0 | 116.0 | 110.0 |
| V3D3165-BS | 3D73193.D | 94.0 | 89.0 | 101.0 | 96.0 |
| V3D3165-MB1 | 3D73192.D | 93.0 | 89.0 | 100.0 | 98.0 |
| V4B790-BS | 4B17995.D | 106.0 | 101.0 | 107.0 | 100.0 |
| V4B790-MB | 4B17994.D | 105.0 | 102.0 | 107.0 | 100.0 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = Dibromofluoromethane | 77-120% |
| **S2** = 1,2-Dichloroethane-D4 | 70-127% |
| **S3** = Toluene-D8 | 79-120% |

# Volatile Surrogate Recovery Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Method:** SW846 8260B **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S4** = 4-Bromofluorobenzene | 76-118% |

New Jersey

ACCUTEST LABORATORIES



# GC Volatiles

## QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

# Method Blank Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| GUV3863-MB1 | UV97946.D | 1 | 05/07/12 | XPL | n/a | n/a | GUV3863 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB5604-1, JB5604-2, JB5604-4, JB5604-11, JB5604-13, JB5604-17

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 81% | 68-114% |

# Method Blank Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| GUV3863-MB2 | UV97957.D | 1 | 05/07/12 | XPL | n/a | n/a | GUV3863 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB5604-8, JB5604-9, JB5604-10, JB5604-12, JB5604-14, JB5604-15, JB5604-22, JB5604-23, JB5604-28

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 82% | 68-114% |

# Method Blank Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| GUV3863-MB3 | UV97968.D | 1 | 05/07/12 | XPL | n/a | n/a | GUV3863 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB5604-24, JB5604-33, JB5604-34, JB5604-35, JB5604-36

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 81% | 68-114% |

# Method Blank Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| GUV3864-MB1 | UV97979.D | 1 | 05/08/12 | XPL | n/a | n/a | GUV3864 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB5604-5, JB5604-6, JB5604-7, JB5604-16, JB5604-29, JB5604-30

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 81% | 68-114% |

# Method Blank Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| GUV3864-MB3 | UV98001.D | 1 | 05/08/12 | XPL | n/a | n/a | GUV3864 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB5604-25, JB5604-26, JB5604-27, JB5604-31, JB5604-32

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 80% | 68-114% |

# Method Blank Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| GUV3865-MB1 | UV98012.D | 1 | 05/08/12 | XPL | n/a | n/a | GUV3865 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB5604-18, JB5604-19, JB5604-20, JB5604-21

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 81% | 68-114% |

# Method Blank Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| GUV3865-MB3 | UV98034.D | 1 | 05/09/12 | XPL | n/a | n/a | GUV3865 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB5604-19MS, JB5604-19MSD

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 82% | 68-114% |

# Blank Spike Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| GUV3863-BS | UV97947.D | 1 | 05/07/12 | XPL | n/a | n/a | GUV3863 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB5604-1, JB5604-2, JB5604-4, JB5604-8, JB5604-9, JB5604-10, JB5604-11, JB5604-12, JB5604-13, JB5604-14, JB5604-15, JB5604-17, JB5604-22, JB5604-23, JB5604-24, JB5604-28, JB5604-33, JB5604-34, JB5604-35, JB5604-36

| CAS No. | Compound | Spike mg/l | BSP mg/l | BSP % | Limits |
|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 8 | 8.41 | 105 | 72-125 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 106% | 68-114% |

# Blank Spike Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| GUV3864-BS | UV97986.D | 1 | 05/08/12 | XPL | n/a | n/a | GUV3864 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB5604-5, JB5604-6, JB5604-7, JB5604-16, JB5604-25, JB5604-26, JB5604-27, JB5604-29, JB5604-30, JB5604-31, JB5604-32

| CAS No. | Compound | Spike mg/l | BSP mg/l | BSP % | Limits |
|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 8 | 8.22 | 103 | 72-125 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 105% | 68-114% |

# Blank Spike Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| GUV3865-BS | UV98013.D | 1 | 05/09/12 | XPL | n/a | n/a | GUV3865 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB5604-18, JB5604-19, JB5604-20, JB5604-21

| CAS No. | Compound | Spike mg/l | BSP mg/l | BSP % | Limits |
|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 8 | 8.30 | 104 | 72-125 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 106% | 68-114% |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5604-2MS | UV97954.D | 1 | 05/07/12 | XPL | n/a | n/a | GUV3863 |
| JB5604-2MSD | UV97955.D | 1 | 05/07/12 | XPL | n/a | n/a | GUV3863 |
| JB5604-2 | UV97948.D | 1 | 05/07/12 | XPL | n/a | n/a | GUV3863 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB5604-1, JB5604-2, JB5604-4, JB5604-8, JB5604-9, JB5604-10, JB5604-11, JB5604-12, JB5604-13, JB5604-14, JB5604-15, JB5604-17, JB5604-22, JB5604-23, JB5604-24, JB5604-28, JB5604-33, JB5604-34, JB5604-35, JB5604-36

| CAS No. | Compound | JB5604-2 mg/l | Q | Spike mg/l | MS mg/l | MS % | MSD mg/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | | 8 | 7.81 | 98 | 7.58 | 95 | 3 | 46-131/20 |

| CAS No. | Surrogate Recoveries | MS | MSD | JB5604-2 | Limits |
|---|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 98% | 97% | 82% | 68-114% |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5604-30MS | UV97987.D | 1 | 05/08/12 | XPL | n/a | n/a | GUV3864 |
| JB5604-30MSD | UV97988.D | 1 | 05/08/12 | XPL | n/a | n/a | GUV3864 |
| JB5604-30 | UV97985.D | 1 | 05/08/12 | XPL | n/a | n/a | GUV3864 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB5604-5, JB5604-6, JB5604-7, JB5604-16, JB5604-25, JB5604-26, JB5604-27, JB5604-29, JB5604-30, JB5604-31, JB5604-32

| CAS No. | Compound | JB5604-30 mg/l | Q | Spike mg/l | MS mg/l | MS % | MSD mg/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | | 8 | 7.29 | 91 | 7.36 | 92 | 1 | 46-131/20 |

| CAS No. | Surrogate Recoveries | MS | MSD | JB5604-30 | Limits |
|---|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 97% | 98% | 81% | 68-114% |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5604-19MS | UV98040.D | 1 | 05/09/12 | XPL | n/a | n/a | GUV3865 |
| JB5604-19MSD | UV98041.D | 1 | 05/09/12 | XPL | n/a | n/a | GUV3865 |
| JB5604-19 | UV98015.D | 1 | 05/09/12 | XPL | n/a | n/a | GUV3865 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB5604-18, JB5604-19, JB5604-20, JB5604-21

| CAS No. | Compound | JB5604-19 mg/l | Q | Spike mg/l | MS mg/l | MS % | MSD mg/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | | 8 | 8.29 | 104 | 8.10 | 101 | 2 | 46-131/20 |

| CAS No. | Surrogate Recoveries | MS | MSD | JB5604-19 | Limits |
|---|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 99% | 98% | 81% | 68-114% |

# Volatile Surrogate Recovery Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Method:** SW846 8015C **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 [a] |
|---|---|---|
| JB5604-1 | UV97951.D | 81.0 |
| JB5604-2 | UV97948.D | 82.0 |
| JB5604-4 | UV97949.D | 81.0 |
| JB5604-5 | UV97980.D | 80.0 |
| JB5604-6 | UV97981.D | 81.0 |
| JB5604-7 | UV97982.D | 81.0 |
| JB5604-8 | UV97964.D | 81.0 |
| JB5604-9 | UV97965.D | 82.0 |
| JB5604-10 | UV97962.D | 81.0 |
| JB5604-11 | UV97953.D | 81.0 |
| JB5604-12 | UV97961.D | 81.0 |
| JB5604-13 | UV97952.D | 82.0 |
| JB5604-14 | UV97959.D | 80.0 |
| JB5604-15 | UV97960.D | 80.0 |
| JB5604-16 | UV97983.D | 81.0 |
| JB5604-17 | UV97950.D | 82.0 |
| JB5604-18 | UV98014.D | 82.0 |
| JB5604-19 | UV98015.D | 81.0 |
| JB5604-20 | UV98016.D | 80.0 |
| JB5604-21 | UV98017.D | 82.0 |
| JB5604-22 | UV97958.D | 79.0 |
| JB5604-23 | UV97966.D | 81.0 |
| JB5604-24 | UV97973.D | 81.0 |
| JB5604-25 | UV98002.D | 81.0 |
| JB5604-26 | UV98003.D | 80.0 |
| JB5604-27 | UV98004.D | 81.0 |
| JB5604-28 | UV97963.D | 81.0 |
| JB5604-29 | UV97984.D | 81.0 |
| JB5604-30 | UV97985.D | 81.0 |
| JB5604-31 | UV98005.D | 81.0 |
| JB5604-32 | UV98006.D | 81.0 |
| JB5604-33 | UV97969.D | 81.0 |
| JB5604-34 | UV97972.D | 84.0 |
| JB5604-35 | UV97971.D | 83.0 |
| JB5604-36 | UV97970.D | 81.0 |
| GUV3863-BS | UV97947.D | 106.0 |
| GUV3863-MB1 | UV97946.D | 81.0 |
| GUV3863-MB2 | UV97957.D | 82.0 |
| GUV3863-MB3 | UV97968.D | 81.0 |
| GUV3864-BS | UV97986.D | 105.0 |

# Volatile Surrogate Recovery Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Method:** SW846 8015C **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 [a] |
|---|---|---|
| GUV3864-MB1 | UV97979.D | 81.0 |
| GUV3864-MB3 | UV98001.D | 80.0 |
| GUV3865-BS | UV98013.D | 106.0 |
| GUV3865-MB1 | UV98012.D | 81.0 |
| JB5604-19MS | UV98040.D | 99.0 |
| JB5604-19MSD | UV98041.D | 98.0 |
| JB5604-2MS | UV97954.D | 98.0 |
| JB5604-2MSD | UV97955.D | 97.0 |
| JB5604-30MS | UV97987.D | 97.0 |
| JB5604-30MSD | UV97988.D | 98.0 |
| GUV3865-MB3 | UV98034.D | 82.0 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = aaa-Trifluorotoluene | 68-114% |

(a) Recovery from GC signal #1

New Jersey
ACCUTEST LABORATORIES

# GC Semi-volatiles

## QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

# Method Blank Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP56758-MB1 | 2Z23546.D | 1 | 05/08/12 | CS | 05/04/12 | OP56758 | G2Z974 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB5604-1, JB5604-2, JB5604-4, JB5604-5, JB5604-6, JB5604-7, JB5604-8, JB5604-9, JB5604-10, JB5604-11, JB5604-12, JB5604-13, JB5604-14, JB5604-15, JB5604-16, JB5604-17, JB5604-18, JB5604-19, JB5604-20, JB5604-21

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 84-15-1 | o-Terphenyl | 81% | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 76% | 32-138% |
| 438-22-2 | 5a-Androstane | 88% | 31-136% |

# Method Blank Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP56759-MB1 | 2Z23608.D | 1 | 05/10/12 | CS | 05/04/12 | OP56759 | G2Z976 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB5604-22, JB5604-23, JB5604-24, JB5604-26, JB5604-27, JB5604-28, JB5604-29, JB5604-30, JB5604-31, JB5604-32, JB5604-33, JB5604-34, JB5604-35, JB5604-36

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 84-15-1 | o-Terphenyl | 84% | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 76% | 32-138% |
| 438-22-2 | 5a-Androstane | 85% | 31-136% |

# Blank Spike Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP56758-BS1 | 2Z23547.D | 1 | 05/08/12 | CS | 05/04/12 | OP56758 | G2Z974 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB5604-1, JB5604-2, JB5604-4, JB5604-5, JB5604-6, JB5604-7, JB5604-8, JB5604-9, JB5604-10, JB5604-11, JB5604-12, JB5604-13, JB5604-14, JB5604-15, JB5604-16, JB5604-17, JB5604-18, JB5604-19, JB5604-20, JB5604-21

| CAS No. | Compound | Spike mg/l | BSP mg/l | BSP % | Limits |
|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | 1 | 0.883 | 88 | 15-111 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 84-15-1 | o-Terphenyl | 97% | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 84% | 32-138% |
| 438-22-2 | 5a-Androstane | 95% | 31-136% |

# Blank Spike Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP56759-BS1 | 2Z23609.D | 1 | 05/10/12 | CS | 05/04/12 | OP56759 | G2Z976 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB5604-22, JB5604-23, JB5604-24, JB5604-26, JB5604-27, JB5604-28, JB5604-29, JB5604-30, JB5604-31, JB5604-32, JB5604-33, JB5604-34, JB5604-35, JB5604-36

| CAS No. | Compound | Spike mg/l | BSP mg/l | BSP % | Limits |
|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | 1 | 0.862 | 86 | 15-111 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 84-15-1 | o-Terphenyl | 90% | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 85% | 32-138% |
| 438-22-2 | 5a-Androstane | 97% | 31-136% |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP56758-MS | 2Z23548.D | 1 | 05/08/12 | CS | 05/04/12 | OP56758 | G2Z974 |
| OP56758-MSD | 2Z23549.D | 1 | 05/08/12 | CS | 05/04/12 | OP56758 | G2Z974 |
| JB5604-1 | 2Z23550.D | 1 | 05/09/12 | CS | 05/04/12 | OP56758 | G2Z974 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB5604-1, JB5604-2, JB5604-4, JB5604-5, JB5604-6, JB5604-7, JB5604-8, JB5604-9, JB5604-10, JB5604-11, JB5604-12, JB5604-13, JB5604-14, JB5604-15, JB5604-16, JB5604-17, JB5604-18, JB5604-19, JB5604-20, JB5604-21

| CAS No. | Compound | JB5604-1 mg/l | Q | Spike mg/l | MS mg/l | MS % | MSD mg/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | | 2 | 1.83 | 92 | 1.89 | 95 | 3 | 23-160/31 |

| CAS No. | Surrogate Recoveries | MS | MSD | JB5604-1 | Limits |
|---|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 88% | 86% | 83% | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 82% | 80% | 73% | 32-138% |
| 438-22-2 | 5a-Androstane | 93% | 92% | 84% | 31-136% |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP56759-MS | 2Z23610.D | 1 | 05/10/12 | CS | 05/04/12 | OP56759 | G2Z976 |
| OP56759-MSD | 2Z23611.D | 1 | 05/10/12 | CS | 05/04/12 | OP56759 | G2Z976 |
| JB5604-22 | 2Z23612.D | 1 | 05/10/12 | CS | 05/04/12 | OP56759 | G2Z976 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB5604-22, JB5604-23, JB5604-24, JB5604-26, JB5604-27, JB5604-28, JB5604-29, JB5604-30, JB5604-31, JB5604-32, JB5604-33, JB5604-34, JB5604-35, JB5604-36

| CAS No. | Compound | JB5604-22 mg/l | Q | Spike mg/l | MS mg/l | MS % | MSD mg/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | | 2 | 1.72 | 86 | 1.68 | 84 | 2 | 23-160/31 |

| CAS No. | Surrogate Recoveries | MS | MSD | JB5604-22 | Limits |
|---|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 87% | 85% | 85% | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 81% | 80% | 77% | 32-138% |
| 438-22-2 | 5a-Androstane | 94% | 91% | 86% | 31-136% |

# Semivolatile Surrogate Recovery Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Method:** SW846 8015C **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 [a] | S2 [a] | S3 [a] |
|---|---|---|---|---|
| JB5604-1 | 2Z23550.D | 83.0 | 73.0 | 84.0 |
| JB5604-2 | 2Z23551.D | 82.0 | 73.0 | 83.0 |
| JB5604-4 | 2Z23552.D | 74.0 | 69.0 | 78.0 |
| JB5604-5 | 2Z23553.D | 80.0 | 73.0 | 83.0 |
| JB5604-6 | 2Z23554.D | 83.0 | 73.0 | 84.0 |
| JB5604-7 | 2Z23555.D | 44.0 | 48.0 | 51.0 |
| JB5604-8 | 2Z23558.D | 87.0 | 79.0 | 88.0 |
| JB5604-9 | 2Z23559.D | 83.0 | 75.0 | 84.0 |
| JB5604-10 | 2Z23560.D | 69.0 | 54.0 | 63.0 |
| JB5604-11 | 2Z23561.D | 68.0 | 62.0 | 68.0 |
| JB5604-12 | 2Z23562.D | 84.0 | 65.0 | 76.0 |
| JB5604-13 | 2Z23563.D | 85.0 | 73.0 | 84.0 |
| JB5604-14 | 2Z23564.D | 80.0 | 72.0 | 78.0 |
| JB5604-15 | 2Z23565.D | 83.0 | 72.0 | 83.0 |
| JB5604-16 | 2Z23566.D | 69.0 | 69.0 | 71.0 |
| JB5604-17 | 2Z23580.D | 72.0 | 57.0 | 68.0 |
| JB5604-18 | 2Z23581.D | 82.0 | 72.0 | 78.0 |
| JB5604-19 | 2Z23582.D | 75.0 | 55.0 | 65.0 |
| JB5604-20 | 2Z23583.D | 79.0 | 71.0 | 80.0 |
| JB5604-21 | 2Z23584.D | 82.0 | 74.0 | 81.0 |
| JB5604-22 | 2Z23612.D | 85.0 | 77.0 | 86.0 |
| JB5604-23 | 2Z23613.D | 94.0 | 85.0 | 93.0 |
| JB5604-24 | 2Z23614.D | 85.0 | 73.0 | 82.0 |
| JB5604-26 | 2Z23618.D | 84.0 | 72.0 | 81.0 |
| JB5604-27 | 2Z23619.D | 89.0 | 78.0 | 88.0 |
| JB5604-28 | 2Z23620.D | 87.0 | 76.0 | 85.0 |
| JB5604-29 | 2Z23621.D | 85.0 | 77.0 | 86.0 |
| JB5604-30 | 2Z23622.D | 85.0 | 80.0 | 87.0 |
| JB5604-31 | 2Z23623.D | 90.0 | 83.0 | 91.0 |
| JB5604-32 | 2Z23624.D | 85.0 | 77.0 | 86.0 |
| JB5604-33 | 2Z23625.D | 90.0 | 81.0 | 87.0 |
| JB5604-34 | 2Z23626.D | 88.0 | 80.0 | 89.0 |
| JB5604-35 | 2Z23629.D | 87.0 | 76.0 | 85.0 |
| JB5604-36 | 2Z23630.D | 89.0 | 78.0 | 89.0 |
| OP56758-BS1 | 2Z23547.D | 97.0 | 84.0 | 95.0 |
| OP56758-MB1 | 2Z23546.D | 81.0 | 76.0 | 88.0 |
| OP56758-MS | 2Z23548.D | 88.0 | 82.0 | 93.0 |
| OP56758-MSD | 2Z23549.D | 86.0 | 80.0 | 92.0 |
| OP56759-BS1 | 2Z23609.D | 90.0 | 85.0 | 97.0 |
| OP56759-MB1 | 2Z23608.D | 84.0 | 76.0 | 85.0 |

# Semivolatile Surrogate Recovery Summary



**Job Number:** JB5604
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Method:** SW846 8015C **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 [a] | S2 [a] | S3 [a] |
|---|---|---|---|---|
| OP56759-MS | 2Z23610.D | 87.0 | 81.0 | 94.0 |
| OP56759-MSD | 2Z23611.D | 85.0 | 80.0 | 91.0 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = o-Terphenyl | 36-144% |
| **S2** = Tetracosane-d50 | 32-138% |
| **S3** = 5a-Androstane | 31-136% |

(a) Recovery from GC signal #1

New Jersey
ACCUTEST LABORATORIES

05/14/12

# Technical Report for

Shell Oil Products US

URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

INC#97436977

Accutest Job Number: JB5665

Sampling Date: 05/03/12

Report to:

URS Corporation
12420 Milestone Center Drive Suite 150
Germantown, MD 20876
jenna_anthony@urscorp.com; adriane_rogers@urscorp.com

ATTN: Jenna Anthony

Total number of pages in report: **101**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul Ioannidis
Lab Director

Client Service contact: Marty Vitanza 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.



Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

# Table of Contents

-1-


**Section 1: Sample Summary** ..... **3**
**Section 2: Case Narrative/Conformance Summary** ..... **4**
**Section 3: Sample Results** ..... **6**
- **3.1:** JB5665-1: 137675-730 BND ..... 7
- **3.2:** JB5665-2: 137675-730 BNS ..... 10
- **3.3:** JB5665-3: 137675-MW-02 ..... 13
- **3.4:** JB5665-4: 137675-MW-04 ..... 16
- **3.5:** JB5665-5: 137675-MW-08D ..... 19
- **3.6:** JB5665-6: 137675-MW-09D ..... 22
- **3.7:** JB5665-7: 137675-MW-09S ..... 27
- **3.8:** JB5665-8: 137675-RW-19 ..... 32
- **3.9:** JB5665-9: 137675-RW-20 ..... 37
- **3.10:** JB5665-10: 137675-RW-21 ..... 42
- **3.11:** JB5665-11: 137675-RW-22 ..... 47
- **3.12:** JB5665-12: 137675-RW-23 ..... 52

**Section 4: Misc. Forms** ..... **57**
- **4.1:** Chain of Custody ..... 58

**Section 5: GC/MS Volatiles - QC Data Summaries** ..... **62**
- **5.1:** Method Blank Summary ..... 63
- **5.2:** Blank Spike Summary ..... 69
- **5.3:** Matrix Spike Summary ..... 75
- **5.4:** Matrix Spike/Matrix Spike Duplicate Summary ..... 76
- **5.5:** Duplicate Summary ..... 81
- **5.6:** Instrument Performance Checks (BFB) ..... 82
- **5.7:** Surrogate Recovery Summaries ..... 88

**Section 6: GC Volatiles - QC Data Summaries** ..... **90**
- **6.1:** Method Blank Summary ..... 91
- **6.2:** Blank Spike Summary ..... 94
- **6.3:** Matrix Spike/Matrix Spike Duplicate Summary ..... 95
- **6.4:** Surrogate Recovery Summaries ..... 96

**Section 7: GC Semi-volatiles - QC Data Summaries** ..... **97**
- **7.1:** Method Blank Summary ..... 98
- **7.2:** Blank Spike Summary ..... 99
- **7.3:** Matrix Spike/Matrix Spike Duplicate Summary ..... 100
- **7.4:** Surrogate Recovery Summaries ..... 101

Accutest Laboratories

# Sample Summary

Shell Oil Products US

**Job No:** JB5665

URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD
Project No: INC#97436977

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| JB5665-1 | 05/03/12 | 13:55 | RB | 05/04/12 | AQ | Ground Water | 137675-730 BND |
| JB5665-2 | 05/03/12 | 13:15 | RB | 05/04/12 | AQ | Ground Water | 137675-730 BNS |
| JB5665-3 | 05/03/12 | 14:55 | RB | 05/04/12 | AQ | Ground Water | 137675-MW-02 |
| JB5665-4 | 05/03/12 | 14:48 | RB | 05/04/12 | AQ | Ground Water | 137675-MW-04 |
| JB5665-5 | 05/03/12 | 11:19 | RB | 05/04/12 | AQ | Ground Water | 137675-MW-08D |
| JB5665-6 | 05/03/12 | 13:15 | RB | 05/04/12 | AQ | Ground Water | 137675-MW-09D |
| JB5665-7 | 05/03/12 | 13:00 | RB | 05/04/12 | AQ | Ground Water | 137675-MW-09S |
| JB5665-8 | 05/03/12 | 07:00 | RB | 05/04/12 | AQ | Ground Water | 137675-RW-19 |
| JB5665-9 | 05/03/12 | 07:03 | RB | 05/04/12 | AQ | Ground Water | 137675-RW-20 |
| JB5665-10 | 05/03/12 | 07:06 | RB | 05/04/12 | AQ | Ground Water | 137675-RW-21 |
| JB5665-11 | 05/03/12 | 07:12 | RB | 05/04/12 | AQ | Ground Water | 137675-RW-22 |
| JB5665-12 | 05/03/12 | 07:09 | RB | 05/04/12 | AQ | Ground Water | 137675-RW-23 |

# CASE NARRATIVE / CONFORMANCE SUMMARY

| | | | |
|---|---|---|---|
| **Client:** | Shell Oil Products US | **Job No** | JB5665 |
| **Site:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Sprin | **Report Date** | 5/14/2012 11:54:16 A |

On 05/04/2012, 12 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 4 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB5665 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

## Volatiles by GCMS By Method SW846 8260B

**Matrix:** AQ **Batch ID:** V2B4312

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB5665-1DUP, JB5665-4MS were used as the QC samples indicated.

**Matrix:** AQ **Batch ID:** V2B4315

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB5584-5MS, JB5584-5MSD were used as the QC samples indicated.

**Matrix:** AQ **Batch ID:** V2D4499

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB5665-11MS, JB5665-11MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for Methyl Tert Butyl Ether are outside control limits. Outside control limits due to high level in sample relative to spike amount.

**Matrix:** AQ **Batch ID:** V2D4500

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB5819-1MS, JB5819-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

## Volatiles by GC By Method SW846 8015C

**Matrix:** AQ **Batch ID:** GPF2736

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB5665-4MS, JB5665-4MSD were used as the QC samples indicated.

## Extractables by GC By Method SW846 8015C

**Matrix:** AQ **Batch ID:** OP56782

- All samples were extracted within the recommended method holding time.
- Sample(s) JB5665-1MS, JB5665-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety.  Data release is authorized by Accutest Laboratories indicated via signature on the report cover

New Jersey

ACCUTEST LABORATORIES



## Sample Results

Report of Analysis

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-730 BND | | |
| **Lab Sample ID:** | JB5665-1 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2B95541.D | 1 | 05/08/12 | DR | n/a | n/a | V2B4312 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 2.3 | 1.0 | 0.18 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | ND | 25 | 1.9 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | ND | 5.0 | 0.25 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 5.0 | 0.33 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 111% | | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 110% | | 70-127% |
| 2037-26-5 | Toluene-D8 | 113% | | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 101% | | 76-118% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-730 BND | | |
| **Lab Sample ID:** | JB5665-1 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | PF97440.D | 1 | 05/07/12 | DJ | n/a | n/a | GPF2736 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 80% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-730 BND | | |
| **Lab Sample ID:** | JB5665-1 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Y44762.D | 1 | 05/10/12 | CS | 05/07/12 | OP56782 | G2Y1837 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 960 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0036 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 90% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 67% | | 32-138% |
| 438-22-2 | 5a-Androstane | 78% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-730 BNS | | |
| **Lab Sample ID:** | JB5665-2 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2B95542.D | 1 | 05/08/12 | DR | n/a | n/a | V2B4312 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 1.6 | 1.0 | 0.18 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | ND | 25 | 1.9 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | 0.34 | 5.0 | 0.25 | ug/l | J |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 5.0 | 0.33 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 111% | | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 111% | | 70-127% |
| 2037-26-5 | Toluene-D8 | 112% | | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 101% | | 76-118% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-730 BNS | | |
| **Lab Sample ID:** | JB5665-2 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | PF97461.D | 1 | 05/08/12 | DJ | n/a | n/a | GPF2736 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 77% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-730 BNS | | |
| **Lab Sample ID:** | JB5665-2 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Y44763.D | 1 | 05/10/12 | CS | 05/07/12 | OP56782 | G2Y1837 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 950 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.11 | 0.0037 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 97% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 72% | | 32-138% |
| 438-22-2 | 5a-Androstane | 86% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-02 | | |
| **Lab Sample ID:** | JB5665-3 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2B95543.D | 1 | 05/08/12 | DR | n/a | n/a | V2B4312 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.18 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | ND | 25 | 1.9 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | ND | 5.0 | 0.25 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 5.0 | 0.33 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 108% | | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 111% | | 70-127% |
| 2037-26-5 | Toluene-D8 | 112% | | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 103% | | 76-118% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-02 | | |
| **Lab Sample ID:** | JB5665-3 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | PF97435.D | 1 | 05/07/12 | DJ | n/a | n/a | GPF2736 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 82% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-02 | | |
| **Lab Sample ID:** | JB5665-3 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Y44764.D | 1 | 05/10/12 | CS | 05/07/12 | OP56782 | G2Y1837 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 84% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 71% | | 32-138% |
| 438-22-2 | 5a-Androstane | 83% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-04 | | |
| **Lab Sample ID:** | JB5665-4 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2B95539.D | 1 | 05/08/12 | DR | n/a | n/a | V2B4312 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 1.2 | 1.0 | 0.18 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | ND | 25 | 1.9 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | ND | 5.0 | 0.25 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 5.0 | 0.33 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 109% | | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 110% | | 70-127% |
| 2037-26-5 | Toluene-D8 | 111% | | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 101% | | 76-118% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-04 | | |
| **Lab Sample ID:** | JB5665-4 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | PF97436.D | 1 | 05/07/12 | DJ | n/a | n/a | GPF2736 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 80% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-04 | | |
| **Lab Sample ID:** | JB5665-4 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Y44765.D | 1 | 05/10/12 | CS | 05/07/12 | OP56782 | G2Y1837 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 85% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 72% | | 32-138% |
| 438-22-2 | 5a-Androstane | 84% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-08D | | |
| **Lab Sample ID:** | JB5665-5 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2B95544.D | 1 | 05/08/12 | DR | n/a | n/a | V2B4312 |
| Run #2 | 2B95545.D | 10 | 05/08/12 | DR | n/a | n/a | V2B4312 |
| Run #3 | 2B95611.D | 100 | 05/10/12 | DR | n/a | n/a | V2B4315 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |
| Run #3 | 5.0 ml |

**Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | 1.6 | 1.0 | 0.22 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 1330-20-7 | Xylene (total) | 2.4 | 1.0 | 0.17 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 3400 [a] | 100 | 18 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | 451 | 25 | 1.9 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | 21.0 | 5.0 | 0.25 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | 25.5 | 5.0 | 0.33 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Run# 3 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 109% | 106% | 109% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 111% | 109% | 108% | 70-127% |
| 2037-26-5 | Toluene-D8 | 113% | 112% | 111% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 101% | 102% | 102% | 76-118% |

(a) Result is from Run# 3

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-08D | | |
| **Lab Sample ID:** | JB5665-5 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | PF97439.D | 1 | 05/07/12 | DJ | n/a | n/a | GPF2736 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 3.56 | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 86% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-08D | | |
| **Lab Sample ID:** | JB5665-5 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Y44766.D | 1 | 05/10/12 | CS | 05/07/12 | OP56782 | G2Y1837 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 75% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 59% | | 32-138% |
| 438-22-2 | 5a-Androstane | 70% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-09D | | |
| **Lab Sample ID:** | JB5665-6 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2D108984.D | 1 | 05/10/12 | ET | n/a | n/a | V2D4499 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | 0.24 | 1.0 | 0.21 | ug/l | J |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | ND | 5.0 | 0.25 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.19 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-09D | | |
| **Lab Sample ID:** | JB5665-6 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 0.30 | 1.0 | 0.18 | ug/l | J |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | ND | 5.0 | 0.68 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | ND | 25 | 1.9 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 5.0 | 0.33 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.32 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.21 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 0.23 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.17 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 98% | | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-09D | | |
| **Lab Sample ID:** | JB5665-6 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 114% | | 70-127% |
| 2037-26-5 | Toluene-D8 | 97% | | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 95% | | 76-118% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-09D | | |
| **Lab Sample ID:** | JB5665-6 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | PF97446.D | 1 | 05/07/12 | DJ | n/a | n/a | GPF2736 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 79% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-09D | | |
| **Lab Sample ID:** | JB5665-6 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Y44767.D | 1 | 05/10/12 | CS | 05/07/12 | OP56782 | G2Y1837 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 960 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0036 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 79% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 66% | | 32-138% |
| 438-22-2 | 5a-Androstane | 78% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-09S | | |
| **Lab Sample ID:** | JB5665-7 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2D108985.D | 1 | 05/10/12 | ET | n/a | n/a | V2D4499 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.21 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | ND | 5.0 | 0.25 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.19 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-09S | | |
| **Lab Sample ID:** | JB5665-7 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.18 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | ND | 5.0 | 0.68 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | ND | 25 | 1.9 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 5.0 | 0.33 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.32 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.21 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 0.23 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.17 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 98% | | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-09S | | |
| **Lab Sample ID:** | JB5665-7 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 115% | | 70-127% |
| 2037-26-5 | Toluene-D8 | 96% | | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 93% | | 76-118% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-09S | | |
| **Lab Sample ID:** | JB5665-7 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | PF97447.D | 1 | 05/07/12 | DJ | n/a | n/a | GPF2736 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 78% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-09S | | |
| **Lab Sample ID:** | JB5665-7 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Y44768.D | 1 | 05/10/12 | CS | 05/07/12 | OP56782 | G2Y1837 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 980 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0036 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 78% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 67% | | 32-138% |
| 438-22-2 | 5a-Androstane | 76% | | 31-136% |

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-RW-19 | | |
| **Lab Sample ID:** | JB5665-8 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2D108986.D | 1 | 05/10/12 | ET | n/a | n/a | V2D4499 |
| Run #2 | 2D109002.D | 10 | 05/10/12 | ET | n/a | n/a | V2D4500 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | 0.83 | 1.0 | 0.22 | ug/l | J |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | 0.34 | 1.0 | 0.21 | ug/l | J |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | 5.3 | 5.0 | 0.25 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.19 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-RW-19 | | |
| **Lab Sample ID:** | JB5665-8 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 622 [a] | 10 | 1.8 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | ND | 5.0 | 0.68 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | 40.6 | 25 | 1.9 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | 5.0 | 5.0 | 0.33 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.32 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.21 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 0.23 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.17 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 98% | 99% | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-RW-19 | | |
| **Lab Sample ID:** | JB5665-8 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 115% | 115% | 70-127% |
| 2037-26-5 | Toluene-D8 | 95% | 96% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 94% | 93% | 76-118% |

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-RW-19 | | |
| **Lab Sample ID:** | JB5665-8 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | PF97449.D | 1 | 05/07/12 | DJ | n/a | n/a | GPF2736 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 0.693 | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 85% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-RW-19 | | |
| **Lab Sample ID:** | JB5665-8 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Y44771.D | 1 | 05/10/12 | CS | 05/07/12 | OP56782 | G2Y1837 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 84% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 72% | | 32-138% |
| 438-22-2 | 5a-Androstane | 85% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-RW-20 | | |
| **Lab Sample ID:** | JB5665-9 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2D108987.D | 5 | 05/10/12 | ET | n/a | n/a | V2D4499 |
| Run #2 | 2D109010.D | 25 | 05/10/12 | ET | n/a | n/a | V2D4500 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 50 | 25 | ug/l | |
| 71-43-2 | Benzene | 3.8 | 5.0 | 1.1 | ug/l | J |
| 108-86-1 | Bromobenzene | ND | 25 | 0.91 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 25 | 2.0 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 5.0 | 1.1 | ug/l | |
| 75-25-2 | Bromoform | ND | 20 | 1.2 | ug/l | |
| 74-83-9 | Bromomethane | ND | 10 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 50 | 15 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 25 | 1.7 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 25 | 1.0 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 25 | 1.2 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 5.0 | 0.97 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 5.0 | 1.1 | ug/l | |
| 75-00-3 | Chloroethane | ND | 5.0 | 1.8 | ug/l | |
| 67-66-3 | Chloroform | ND | 5.0 | 1.0 | ug/l | |
| 74-87-3 | Chloromethane | ND | 5.0 | 1.1 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 25 | 0.95 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 25 | 0.96 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | 9.1 | 25 | 1.3 | ug/l | J |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 50 | 6.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 5.0 | 1.0 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 10 | 1.0 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 5.0 | 0.92 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 5.0 | 1.4 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 5.0 | 1.3 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 25 | 1.6 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.0 | 0.96 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.0 | 0.90 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 5.0 | 1.4 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 5.0 | 1.1 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 5.0 | 1.6 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.0 | 1.1 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-RW-20 | | |
| **Lab Sample ID:** | JB5665-9 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 25 | 0.97 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 25 | 1.3 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 25 | 1.8 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.0 | 1.1 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.0 | 0.93 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 5.0 | 1.1 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 25 | 1.2 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 10 | 0.97 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 25 | 0.94 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 1440 [a] | 25 | 4.6 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 25 | 6.1 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 25 | 2.3 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 10 | 1.0 | ug/l | |
| 91-20-3 | Naphthalene | ND | 25 | 3.4 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 25 | 0.87 | ug/l | |
| 100-42-5 | Styrene | ND | 25 | 1.1 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | 133 | 130 | 9.3 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | 16.2 | 25 | 1.6 | ug/l | J |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 25 | 1.0 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 25 | 1.2 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.0 | 1.0 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 5.0 | 1.6 | ug/l | |
| 108-88-3 | Toluene | ND | 5.0 | 0.73 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 25 | 3.4 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 25 | 0.75 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.0 | 1.2 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.0 | 1.2 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 5.0 | 1.1 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 25 | 1.8 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 25 | 2.7 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 10 | 0.90 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 10 | 1.1 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 5.0 | 1.3 | ug/l | |
| | m,p-Xylene | ND | 5.0 | 1.6 | ug/l | |
| 95-47-6 | o-Xylene | ND | 5.0 | 0.87 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 5.0 | 0.87 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 98% | 98% | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-RW-20 | | |
| **Lab Sample ID:** | JB5665-9 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 117% | 111% | 70-127% |
| 2037-26-5 | Toluene-D8 | 95% | 96% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 94% | 94% | 76-118% |

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-RW-20 | | |
| **Lab Sample ID:** | JB5665-9 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | PF97450.D | 1 | 05/07/12 | DJ | n/a | n/a | GPF2736 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 1.78 | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 83% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-RW-20 | | |
| **Lab Sample ID:** | JB5665-9 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Y44772.D | 1 | 05/10/12 | CS | 05/07/12 | OP56782 | G2Y1837 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 79% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 70% | | 32-138% |
| 438-22-2 | 5a-Androstane | 81% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-RW-21 | | |
| **Lab Sample ID:** | JB5665-10 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2D108988.D | 1 | 05/10/12 | ET | n/a | n/a | V2D4499 |
| Run #2 | 2D109016.D | 10 | 05/10/12 | ET | n/a | n/a | V2D4500 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | 1.6 | 1.0 | 0.22 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | 0.48 | 1.0 | 0.21 | ug/l | J |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | 4.7 | 5.0 | 0.25 | ug/l | J |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.19 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-RW-21 | | |
| **Lab Sample ID:** | JB5665-10 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 386 [a] | 10 | 1.8 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | ND | 5.0 | 0.68 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | 24.9 | 25 | 1.9 | ug/l | J |
| 994-05-8 | tert-Amyl Methyl Ether | 4.7 | 5.0 | 0.33 | ug/l | J |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | 0.53 | 1.0 | 0.32 | ug/l | J |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | 0.23 | 1.0 | 0.21 | ug/l | J |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 0.23 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.17 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 99% | 99% | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-RW-21 | | |
| **Lab Sample ID:** | JB5665-10 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 118% | 118% | 70-127% |
| 2037-26-5 | Toluene-D8 | 96% | 96% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 91% | 95% | 76-118% |

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-RW-21 | | |
| **Lab Sample ID:** | JB5665-10 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | PF97448.D | 1 | 05/07/12 | DJ | n/a | n/a | GPF2736 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 0.489 | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 84% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-RW-21 | | |
| **Lab Sample ID:** | JB5665-10 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Y44773.D | 1 | 05/10/12 | CS | 05/07/12 | OP56782 | G2Y1837 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 78% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 67% | | 32-138% |
| 438-22-2 | 5a-Androstane | 80% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-RW-22 | | |
| **Lab Sample ID:** | JB5665-11 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2D108983.D | 10 | 05/10/12 | ET | n/a | n/a | V2D4499 |
| Run #2 | 2D109017.D | 50 | 05/10/12 | ET | n/a | n/a | V2D4500 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 100 | 50 | ug/l | |
| 71-43-2 | Benzene | 2.9 | 10 | 2.2 | ug/l | J |
| 108-86-1 | Bromobenzene | ND | 50 | 1.8 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 50 | 4.0 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 10 | 2.3 | ug/l | |
| 75-25-2 | Bromoform | ND | 40 | 2.4 | ug/l | |
| 74-83-9 | Bromomethane | ND | 20 | 3.1 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 100 | 29 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 50 | 3.3 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 50 | 2.0 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 50 | 2.4 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 10 | 1.9 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 10 | 2.2 | ug/l | |
| 75-00-3 | Chloroethane | ND | 10 | 3.7 | ug/l | |
| 67-66-3 | Chloroform | ND | 10 | 2.1 | ug/l | |
| 74-87-3 | Chloromethane | ND | 10 | 2.2 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 50 | 1.9 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 50 | 1.9 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | 24.1 | 50 | 2.5 | ug/l | J |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 100 | 13 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 10 | 2.0 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 20 | 2.1 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 10 | 1.8 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 10 | 2.9 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 10 | 2.6 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 50 | 3.1 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 10 | 1.9 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 10 | 1.8 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 10 | 2.8 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 10 | 2.2 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 10 | 3.1 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 10 | 2.2 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-RW-22 | | |
| **Lab Sample ID:** | JB5665-11 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 50 | 1.9 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 50 | 2.6 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 50 | 3.6 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 10 | 2.2 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 10 | 1.9 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 10 | 2.1 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 50 | 2.3 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 20 | 1.9 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 50 | 1.9 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 3620 [a] | 50 | 9.2 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 50 | 12 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 50 | 4.6 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 20 | 2.0 | ug/l | |
| 91-20-3 | Naphthalene | ND | 50 | 6.8 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 50 | 1.7 | ug/l | |
| 100-42-5 | Styrene | ND | 50 | 2.3 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | 1240 | 250 | 19 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | 62.9 | 50 | 3.3 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 50 | 2.0 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 50 | 2.4 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 10 | 2.0 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 10 | 3.2 | ug/l | |
| 108-88-3 | Toluene | ND | 10 | 1.5 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 50 | 6.9 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 50 | 1.5 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 10 | 2.4 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 10 | 2.3 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 10 | 2.1 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 50 | 3.5 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 50 | 5.4 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 20 | 1.8 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 20 | 2.3 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 10 | 2.7 | ug/l | |
| | m,p-Xylene | ND | 10 | 3.2 | ug/l | |
| 95-47-6 | o-Xylene | ND | 10 | 1.7 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 10 | 1.7 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 99% | 100% | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-RW-22 | | |
| **Lab Sample ID:** | JB5665-11 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 115% | 119% | 70-127% |
| 2037-26-5 | Toluene-D8 | 96% | 95% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 94% | 94% | 76-118% |

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-RW-22 | | |
| **Lab Sample ID:** | JB5665-11 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | PF97438.D | 1 | 05/07/12 | DJ | n/a | n/a | GPF2736 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 4.73 | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 89% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-RW-22 | | |
| **Lab Sample ID:** | JB5665-11 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Y44774.D | 1 | 05/10/12 | CS | 05/07/12 | OP56782 | G2Y1837 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 81% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 68% | | 32-138% |
| 438-22-2 | 5a-Androstane | 79% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-RW-23 | | |
| **Lab Sample ID:** | JB5665-12 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2D108989.D | 5 | 05/10/12 | ET | n/a | n/a | V2D4499 |
| Run #2 | 2D109018.D | 50 | 05/10/12 | ET | n/a | n/a | V2D4500 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 50 | 25 | ug/l | |
| 71-43-2 | Benzene | 8.4 | 5.0 | 1.1 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 25 | 0.91 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 25 | 2.0 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 5.0 | 1.1 | ug/l | |
| 75-25-2 | Bromoform | ND | 20 | 1.2 | ug/l | |
| 74-83-9 | Bromomethane | ND | 10 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 50 | 15 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 25 | 1.7 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 25 | 1.0 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 25 | 1.2 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 5.0 | 0.97 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 5.0 | 1.1 | ug/l | |
| 75-00-3 | Chloroethane | ND | 5.0 | 1.8 | ug/l | |
| 67-66-3 | Chloroform | ND | 5.0 | 1.0 | ug/l | |
| 74-87-3 | Chloromethane | ND | 5.0 | 1.1 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 25 | 0.95 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 25 | 0.96 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | 17.5 | 25 | 1.3 | ug/l | J |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 50 | 6.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 5.0 | 1.0 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 10 | 1.0 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 5.0 | 0.92 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 5.0 | 1.4 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 5.0 | 1.3 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 25 | 1.6 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.0 | 0.96 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.0 | 0.90 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 5.0 | 1.4 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 5.0 | 1.1 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 5.0 | 1.6 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.0 | 1.1 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-RW-23 | | |
| **Lab Sample ID:** | JB5665-12 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 25 | 0.97 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 25 | 1.3 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 25 | 1.8 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.0 | 1.1 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.0 | 0.93 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 5.0 | 1.1 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 25 | 1.2 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 10 | 0.97 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 25 | 0.94 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 2130 [a] | 50 | 9.2 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 25 | 6.1 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 25 | 2.3 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 10 | 1.0 | ug/l | |
| 91-20-3 | Naphthalene | ND | 25 | 3.4 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 25 | 0.87 | ug/l | |
| 100-42-5 | Styrene | ND | 25 | 1.1 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | 697 | 130 | 9.3 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | 32.3 | 25 | 1.6 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 25 | 1.0 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 25 | 1.2 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.0 | 1.0 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 5.0 | 1.6 | ug/l | |
| 108-88-3 | Toluene | ND | 5.0 | 0.73 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 25 | 3.4 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 25 | 0.75 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.0 | 1.2 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.0 | 1.2 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 5.0 | 1.1 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 25 | 1.8 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 25 | 2.7 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 10 | 0.90 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 10 | 1.1 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 5.0 | 1.3 | ug/l | |
| | m,p-Xylene | ND | 5.0 | 1.6 | ug/l | |
| 95-47-6 | o-Xylene | 2.6 | 5.0 | 0.87 | ug/l | J |
| 1330-20-7 | Xylene (total) | 2.6 | 5.0 | 0.87 | ug/l | J |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 101% | 100% | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-RW-23 | | |
| **Lab Sample ID:** | JB5665-12 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 119% | 120% | 70-127% |
| 2037-26-5 | Toluene-D8 | 95% | 96% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 94% | 95% | 76-118% |

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-RW-23 | | |
| **Lab Sample ID:** | JB5665-12 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | PF97437.D | 1 | 05/07/12 | DJ | n/a | n/a | GPF2736 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 2.65 | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 86% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-RW-23 | | |
| **Lab Sample ID:** | JB5665-12 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Y44775.D | 1 | 05/11/12 | CS | 05/07/12 | OP56782 | G2Y1837 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 77% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 66% | | 32-138% |
| 438-22-2 | 5a-Androstane | 77% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey

ACCUTEST LABORATORIES



# Misc. Forms

## Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

# Shell Oil Products Chain Of Custody Record

URS

**LAB (LOCATION)**
- [x] ACCUTEST ( )
- [ ] CALSCIENCE ( )
- [ ] TESTAMERICA ( )
- [ ] Other ( )

Lab Vendor # 1813640 (Accutest)

**Please Check Appropriate Box:**
- [x] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [ ] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER

Print Bill To Contact Name: Adriane Rogers

PO #

INCIDENT # (ENV SERVICES): 9 7 4 3 6 9 7 7

SAP #: 1 3 7 6 7 5

[ ] CHECK IF NO INCIDENT # APPLIES

DATE: 5-3-12

Page 1 of 3

SAMPLING COMPANY: URS CORPORATION

LOG CODE:

ADDRESS: 12420 Milestone Center Drive Suite 150, Germantown, MD 20876

PROJECT CONTACT (Hardcopy or PDF Report to): Adriane Rogers

TELEPHONE: 301-820-3000 FAX: 301-820-3409 Bill To Contact E-MAIL: adriane.rogers@urs.com

SITE ADDRESS: Street and City: 15541 New Hampshire Avenue, Silver Spring State: MD GLOBAL ID NO.:

EDF DELIVERABLE TO (Name, Company, Office Location): Adriane Rogers PHONE NO.: 301-820-3241 E-MAIL: adriane.rogers@urs.com CONSULTANT PROJECT NO.: 137675

SAMPLER NAME(S) (Print): Robert Burns

LAB USE ONLY: JB5665

TURNAROUND TIME (CALENDAR DAYS):
- [x] STANDARD (14 DAY)
- [ ] 5 DAYS
- [ ] 3 DAYS
- [ ] 2 DAYS
- [ ] 24 HOURS
- [ ] RESULTS NEEDED ON WEEKEND

- [ ] LA - RWQCB REPORT FORMAT
- [ ] UST AGENCY:

DELIVERABLES: [ ] LEVEL 1 [x] LEVEL 2 [ ] LEVEL 3 [ ] LEVEL 4 [ ] OTHER (SPECIFY)

TEMPERATURE ON RECEIPT C°: Cooler #1 Cooler #2 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES:

ALL SAMPLES RECEIVED PRESERVED AS APPLICABLE

- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [ ] RECEIPT VERIFICATION REQUESTED
- [ ] PROVIDE LEDD DISK

REQUESTED ANALYSIS

UNIT COST / NON-UNIT COST

FIELD NOTES:

TEMPERATURE ON RECEIPT C°: 4.2, 5.2 °C

Container PID Readings or Laboratory Notes: 48T, 267

| LAB USE ONLY | Field Sample Identification (5/4/12 TH) | SAMPLING DATE | SAMPLING TIME | MATRIX | HCL | HNO3 | H2SO4 | NONE | OTHER | NO. OF CONT. | BTEX, MTBE, Oxy 5 (8260B) | TPH-GRO | TPH-DRO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ~~137675 - 750 BND~~ | | | GW | X | | | | | ~~3~~ | X | | |
| | ~~137675 - 750 BNR~~ | | | GW | X | | | | | ~~3~~ | X | | |
| | ~~137675 - 750 BNS~~ | | | GW | X | | | | | ~~3~~ | X | | |
| 1 | 137675 - 730 BND | 5-3-12 | 1355 | GW | X | | | | | 7 | X | X | X |
| 2 | 137675 - 730 BNS | 5-3-12 | 1315 | GW | X | | | | | 7 | X | X | X |
| 3 | 137675 - MW-02 | 5-3-12 | 1455 | GW | X | | | | | 7 | X | X | X |
| 4 | 137675 - MW-04 | 5-3-12 | 1410 | GW | X | | | | | 7 | X | X | X |
| | ~~137675 - MW-05D~~ | | | GW | X | | | | | ~~3~~ | X | | |
| | ~~137675 - MW-05R~~ | | | GW | X | | | | | ~~3~~ | X | | |
| | 137675 - MW-05S | | | GW | X | | | | | ~~3~~ | X | | |

| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
|---|---|---|---|
| | Fed Ex | | |
| Fed Ex 8003 2508 8300 | M Ashura | 5/4/12 | 0930 |
| | | | |

05/2/08 Revision

**JB5665: Chain of Custody**
**Page 1 of 4**

# Shell Oil Products Chain Of Custody Record

URS

**LAB (LOCATION)**
- [x] ACCUTEST
- [ ] CALSCIENCE
- [ ] TESTAMERICA
- [ ] Other

Lab Vendor # 1813640 (Accutest)

**Please Check Appropriate Box:**
- [x] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [ ] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER

Print Bill To Contact Name: Adriane Rogers

INCIDENT # (ENV SERVICES): 9 7 4 3 6 9 7 7

[ ] CHECK IF NO INCIDENT # APPLIES

DATE: 5-3-12

PO #

SAP #: 1 3 7 6 7 5

Page 2 of 3

SAMPLING COMPANY: URS CORPORATION

LOG CODE:

ADDRESS: 12420 Milestone Center Drive Suite 150, Germantown, MD 20876

SITE ADDRESS: Street and City: 15541 New Hampshire Avenue, Silver Spring

State: MD

GLOBAL ID NO.:

PROJECT CONTACT (Hardcopy or PDF Report to): Adriane Rogers

EDF DELIVERABLE TO (Name, Company, Office Location): Adriane Rogers

PHONE NO.: 301-820-3241

E-MAIL: adriane.rogers@urs.com

CONSULTANT PROJECT NO.: 137675

TELEPHONE: 301-820-3000

FAX: 301-820-3409

Bill To Contact E-MAIL: adriane.rogers@urs.com

SAMPLER NAME(S) (Print): Robert Burns

LAB USE ONLY: JB5665

TURNAROUND TIME (CALENDAR DAYS):
- [x] STANDARD (14 DAY)
- [ ] 5 DAYS
- [ ] 3 DAYS
- [ ] 2 DAYS
- [ ] 24 HOURS
- [ ] RESULTS NEEDED ON WEEKEND

- [ ] LA - RWQCB REPORT FORMAT
- [ ] UST AGENCY:

DELIVERABLES:
- [ ] LEVEL 1
- [x] LEVEL 2
- [ ] LEVEL 3
- [ ] LEVEL 4
- [ ] OTHER (SPECIFY)

TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES:
- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [ ] RECEIPT VERIFICATION REQUESTED
- [ ] PROVIDE LEDD DISK

REQUESTED ANALYSIS

FIELD NOTES:

TEMPERATURE ON RECEIPT C°: 4°, 2°, 5°, 2° CS

| LAB USE ONLY | Field Sample Identification (5/4/12 TM) | SAMPLING DATE | SAMPLING TIME | MATRIX | PRESERVATIVE HCL | HNO3 | H2SO4 | NONE | OTHER | NO. OF CONT. | BTEX, MTBE, Oxy 5 (8260B) | TPH-GRO (Full List) | TPH-DRO (Short) | Container PID Readings or Laboratory Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ~~137675 - MW-06D~~ | | | GW | X | | | | | ~~3~~ | X | | | |
| | ~~137675 - MW-06R~~ | | | GW | X | | | | | ~~3~~ | X | | | |
| | ~~137675 - MW-06S~~ | | | GW | X | | | | | ~~3~~ | X | | | |
| | ~~137675 - MW-07D~~ | | | GW | X | | | | | ~~3~~ | X | | | |
| | ~~137675 - MW-07S~~ | | | GW | X | | | | | ~~3~~ | X | | | |
| 5 | 137675 - MW-08D | 5/3/12 | 1119 | GW | X | | | | | 7 | X | X | X | |
| | ~~137675 - MW-08S~~ | | | GW | X | | | | | ~~3~~ | X | | | |
| 6 | 137675 - MW-09D | 5/3/12 | 1315 | GW | X | | | | | 7 | X | X | X | |
| 7 | 137675 - MW-09S | 5/3/12 | 1300 | GW | X | | | | | 7 | X | X | X | |
| | ~~137675 - MW-11D~~ | | | GW | X | | | | | ~~3~~ | X | | | |

| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
|---|---|---|---|
| | FedEx | | |
| FedEx 8003 2508 8300 | M Cochran | 5/4/12 | 0930 |
| | | | |

05/2/06 Revision

**JB5665: Chain of Custody**
**Page 2 of 4**

# Shell Oil Products Chain Of Custody Record

URS

LAB (LOCATION)
- [x] ACCUTEST ( )
- [ ] CALSCIENCE ( )
- [ ] TESTAMERICA ( )
- [ ] Other ( )

Lab Vendor # 1813640 (Accutest)

Please Check Appropriate Box:
- [x] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [ ] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER

Print Bill To Contact Name: Adriane Rogers

PO #

INCIDENT # (ENV SERVICES): 9 7 4 3 6 9 7 7

SAP #: 1 3 7 6 7 5

[ ] CHECK IF NO INCIDENT # APPLIES

DATE: 5-3-12

Page 5 of 3 3 of 3

SAMPLING COMPANY: URS CORPORATION

LOG CODE:

ADDRESS: 12420 Milestone Center Drive Suite 150, Germantown, MD 20876

PROJECT CONTACT (Hardcopy or PDF Report to): Adriane Rogers

TELEPHONE: 301-820-3000 FAX: 301-820-3409 Bill To Contact E-MAIL: adriane.rogers@urs.com

SITE ADDRESS: Street and City: 15541 New Hampshire Avenue, Silver Spring State: MD GLOBAL ID NO.:

EDF DELIVERABLE TO (Name, Company, Office Location): Adriane Rogers PHONE NO.: 301-820-3241 E-MAIL: adriane.rogers@urs.com CONSULTANT PROJECT NO.: 137675

SAMPLER NAME(S) (Print): Robert Burns

LAB USE ONLY: JB 5665

TURNAROUND TIME (CALENDAR DAYS):
- [x] STANDARD (14 DAY)
- [ ] 5 DAYS
- [ ] 3 DAYS
- [ ] 2 DAYS
- [ ] 24 HOURS
- [ ] RESULTS NEEDED ON WEEKEND

- [ ] LA - RWQCB REPORT FORMAT
- [ ] UST AGENCY:

DELIVERABLES: [ ] LEVEL 1 [x] LEVEL 2 [ ] LEVEL 3 [ ] LEVEL 4 [ ] OTHER (SPECIFY)

TEMPERATURE ON RECEIPT C° Cooler #1 Cooler #2 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [ ] RECEIPT VERIFICATION REQUESTED
- [ ] PROVIDE EDD DISK

REQUESTED ANALYSIS

| LAB USE ONLY | Field Sample Identification | SAMPLING DATE | SAMPLING TIME | MATRIX | PRESERVATIVE HCL | HNO3 | H2SO4 | NONE | OTHER | NO. OF CONT. | BTEX, MTBE, Oxy 5 (8260B) | TPH-GRO Full List | TPH-DRO 8015 | UNIT COST | NON-UNIT COST | FIELD NOTES: Container PID Readings or Laboratory Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5/4/12 M | | | | | | | | | | | | | | | |
| | ~~137675 - MW-26D~~ | | | GW | X | | | | | ~~3~~ | X | | | | | |
| | ~~137675 - RW-01~~ | | | GW | X | | | | | ~~3~~ | X | | | | | |
| | ~~137675 - RW-03~~ | | | GW | X | | | | | ~~3~~ | X | | | | | |
| | ~~137675 - RW-10~~ | | | GW | X | | | | | ~~3~~ | X | | | | | |
| 8 | 137675 - RW-19 | 5/3/12 | 0700 | GW | X | | | | | 7 | X | X | X | | | |
| 9 | 137675 - RW-20 | 5/3/12 | 0703 | GW | X | | | | | 7 | X | X | X | | | |
| 10 | 137675 - RW-21 | 5/3/12 | 0706 | GW | X | | | | | 7 | X | X | X | | | |
| 11 | 137675 - RW-22 | 5/3/12 | 0712 | GW | X | | | | | 7 | X | X | X | | | |
| 12 | 137675 - RW-23 | 5/3/12 | 0709 | GW | X | | | | | 7 | X | X | X | | | |
| | ~~137675 - TF-01~~ | | | GW | X | | | | | ~~3~~ | X | | | | | |
| | ~~137675 - TF-02~~ | | | GW | X | | | | | ~~3~~ | X | | | | | |

| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
|---|---|---|---|
| | FED EX | | |
| FED EX | M Martin | 5/4/12 | 930 |
| | | | |

05/2/06 Revision

**JB5665: Chain of Custody**
**Page 3 of 4**

# Accutest Laboratories Sample Receipt Summary

**Accutest Job Number:** JB5665 **Client:** **Project:**

**Date / Time Received:** 5/4/2012 **Delivery Method:** **Airbill #'s:**

**Cooler Temps (Initial/Adjusted):** #1: (4/4); #2: (2/2); #3: (5/5); #4: (2/2); 0

| Cooler Security | Y | N | | Y | N |
|---|---|---|---|---|---|
| 1. Custody Seals Present: | ☑ | ☐ | 3. COC Present: | ☑ | ☐ |
| 2. Custody Seals Intact: | ☑ | ☐ | 4. Smpl Dates/Time OK | ☑ | ☐ |

| Cooler Temperature | Y | N |
|---|---|---|
| 1. Temp criteria achieved: | ☑ | ☐ |
| 2. Cooler temp verification: | Bar Therm | |
| 3. Cooler media: | Ice (Bag) | |
| 4. No. Coolers: | 4 | |

| Quality Control Preservation | Y | N | N/A |
|---|---|---|---|
| 1. Trip Blank present / cooler: | ☐ | ☑ | ☐ |
| 2. Trip Blank listed on COC: | ☐ | ☑ | ☐ |
| 3. Samples preserved properly: | ☑ | ☐ | |
| 4. VOCs headspace free: | ☑ | ☐ | ☐ |

| Sample Integrity - Documentation | Y | N |
|---|---|---|
| 1. Sample labels present on bottles: | ☑ | ☐ |
| 2. Container labeling complete: | ☑ | ☐ |
| 3. Sample container label / COC agree: | ☑ | ☐ |

| Sample Integrity - Condition | Y | N |
|---|---|---|
| 1. Sample recvd within HT: | ☑ | ☐ |
| 2. All containers accounted for: | ☑ | ☐ |
| 3. Condition of sample: | Intact | |

| Sample Integrity - Instructions | Y | N | N/A |
|---|---|---|---|
| 1. Analysis requested is clear: | ☑ | ☐ | |
| 2. Bottles received for unspecified tests | ☐ | ☑ | |
| 3. Sufficient volume recvd for analysis: | ☑ | ☐ | |
| 4. Compositing instructions clear: | ☐ | ☐ | ☑ |
| 5. Filtering instructions clear: | ☐ | ☐ | ☑ |

Comments

Accutest Laboratories
V:732.329.0200
2235 US Highway 130
F: 732.329.3499
Dayton, New Jersey
www/accutest.com



**JB5665: Chain of Custody**
**Page 4 of 4**

New Jersey

ACCUTEST LABORATORIES



# GC/MS Volatiles

## QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

# Method Blank Summary



**Job Number:** JB5665
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2B4312-MB | 2B95535.D | 1 | 05/08/12 | DR | n/a | n/a | V2B4312 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5665-1, JB5665-2, JB5665-3, JB5665-4, JB5665-5

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | ND | 5.0 | 0.25 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.18 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | ND | 25 | 1.9 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 5.0 | 0.33 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 108% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 110% | 70-127% |
| 2037-26-5 | Toluene-D8 | 113% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | 76-118% |

# Method Blank Summary



**Job Number:** JB5665
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2D4499-MB | 2D108978.D | 1 | 05/09/12 | ET | n/a | n/a | V2D4499 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5665-6, JB5665-7, JB5665-8, JB5665-9, JB5665-10, JB5665-11, JB5665-12

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.21 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | ND | 5.0 | 0.25 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.19 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |

# Method Blank Summary



**Job Number:** JB5665
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2D4499-MB | 2D108978.D | 1 | 05/09/12 | ET | n/a | n/a | V2D4499 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5665-6, JB5665-7, JB5665-8, JB5665-9, JB5665-10, JB5665-11, JB5665-12

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.18 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | ND | 5.0 | 0.68 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | ND | 25 | 1.9 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 5.0 | 0.33 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.32 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.21 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 0.23 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.17 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

# Method Blank Summary



**Job Number:** JB5665
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2D4499-MB | 2D108978.D | 1 | 05/09/12 | ET | n/a | n/a | V2D4499 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5665-6, JB5665-7, JB5665-8, JB5665-9, JB5665-10, JB5665-11, JB5665-12

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 100% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 117% | 70-127% |
| 2037-26-5 | Toluene-D8 | 96% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 95% | 76-118% |

# Method Blank Summary



**Job Number:** JB5665
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2D4500-MB | 2D109000.D | 1 | 05/10/12 | ET | n/a | n/a | V2D4500 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5665-8, JB5665-9, JB5665-10, JB5665-11, JB5665-12

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.18 | ug/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 99% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 116% | 70-127% |
| 2037-26-5 | Toluene-D8 | 96% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 94% | 76-118% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---|---|---|---|---|---|
| | Total TIC, Volatile | | 0 | ug/l | |

# Method Blank Summary



**Job Number:** JB5665
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2B4315-MB | 2B95598.D | 1 | 05/10/12 | DR | n/a | n/a | V2B4315 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5665-5

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.18 | ug/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 110% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 111% | 70-127% |
| 2037-26-5 | Toluene-D8 | 113% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | 76-118% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---|---|---|---|---|---|
| | Total TIC, Volatile | | 0 | ug/l | |

# Blank Spike Summary



**Job Number:** JB5665
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2B4312-BS | 2B95536.D | 1 | 05/08/12 | DR | n/a | n/a | V2B4312 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5665-1, JB5665-2, JB5665-3, JB5665-4, JB5665-5

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | 50 | 49.6 | 99 | 76-119 |
| 108-20-3 | Di-Isopropyl ether | 50 | 53.2 | 106 | 59-130 |
| 100-41-4 | Ethylbenzene | 50 | 47.8 | 96 | 77-119 |
| 1634-04-4 | Methyl Tert Butyl Ether | 100 | 101 | 101 | 72-125 |
| 75-65-0 | Tert Butyl Alcohol | 250 | 258 | 103 | 67-136 |
| 994-05-8 | tert-Amyl Methyl Ether | 50 | 47.9 | 96 | 69-125 |
| 637-92-3 | tert-Butyl Ethyl Ether | 50 | 48.9 | 98 | 67-129 |
| 108-88-3 | Toluene | 50 | 48.2 | 96 | 77-122 |
| 1330-20-7 | Xylene (total) | 150 | 143 | 95 | 78-121 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 108% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 109% | 70-127% |
| 2037-26-5 | Toluene-D8 | 113% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 103% | 76-118% |

# Blank Spike Summary



**Job Number:** JB5665
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2D4499-BS | 2D108979.D | 1 | 05/09/12 | ET | n/a | n/a | V2D4499 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5665-6, JB5665-7, JB5665-8, JB5665-9, JB5665-10, JB5665-11, JB5665-12

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | 50 | 48.6 | 97 | 49-142 |
| 71-43-2 | Benzene | 50 | 42.6 | 85 | 76-119 |
| 108-86-1 | Bromobenzene | 50 | 41.7 | 83 | 77-123 |
| 74-97-5 | Bromochloromethane | 50 | 44.9 | 90 | 77-129 |
| 75-27-4 | Bromodichloromethane | 50 | 49.3 | 99 | 81-133 |
| 75-25-2 | Bromoform | 50 | 47.0 | 94 | 72-139 |
| 74-83-9 | Bromomethane | 50 | 51.4 | 103 | 55-140 |
| 78-93-3 | 2-Butanone (MEK) | 50 | 45.5 | 91 | 64-132 |
| 104-51-8 | n-Butylbenzene | 50 | 41.6 | 83 | 74-130 |
| 135-98-8 | sec-Butylbenzene | 50 | 42.3 | 85 | 75-125 |
| 98-06-6 | tert-Butylbenzene | 50 | 42.2 | 84 | 76-127 |
| 56-23-5 | Carbon tetrachloride | 50 | 55.1 | 110 | 74-146 |
| 108-90-7 | Chlorobenzene | 50 | 42.7 | 85 | 79-120 |
| 75-00-3 | Chloroethane | 50 | 50.1 | 100 | 60-134 |
| 67-66-3 | Chloroform | 50 | 50.6 | 101 | 77-127 |
| 74-87-3 | Chloromethane | 50 | 33.9 | 68 | 50-128 |
| 95-49-8 | o-Chlorotoluene | 50 | 40.3 | 81 | 78-124 |
| 106-43-4 | p-Chlorotoluene | 50 | 41.1 | 82 | 75-120 |
| 108-20-3 | Di-Isopropyl ether | 50 | 43.0 | 86 | 59-130 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 50 | 52.4 | 105 | 64-137 |
| 124-48-1 | Dibromochloromethane | 50 | 45.9 | 92 | 77-131 |
| 106-93-4 | 1,2-Dibromoethane | 50 | 43.3 | 87 | 76-127 |
| 95-50-1 | 1,2-Dichlorobenzene | 50 | 43.3 | 87 | 78-123 |
| 541-73-1 | 1,3-Dichlorobenzene | 50 | 41.3 | 83 | 77-124 |
| 106-46-7 | 1,4-Dichlorobenzene | 50 | 42.2 | 84 | 76-121 |
| 75-71-8 | Dichlorodifluoromethane | 50 | 40.4 | 81 | 41-138 |
| 75-34-3 | 1,1-Dichloroethane | 50 | 46.2 | 92 | 74-124 |
| 107-06-2 | 1,2-Dichloroethane | 50 | 55.1 | 110 | 71-138 |
| 75-35-4 | 1,1-Dichloroethene | 50 | 45.9 | 92 | 68-126 |
| 156-59-2 | cis-1,2-Dichloroethene | 50 | 42.6 | 85 | 78-131 |
| 156-60-5 | trans-1,2-Dichloroethene | 50 | 43.0 | 86 | 64-119 |
| 78-87-5 | 1,2-Dichloropropane | 50 | 41.8 | 84 | 76-121 |
| 142-28-9 | 1,3-Dichloropropane | 50 | 42.6 | 85 | 77-120 |
| 594-20-7 | 2,2-Dichloropropane | 50 | 34.3 | 69 | 53-143 |
| 563-58-6 | 1,1-Dichloropropene | 50 | 45.9 | 92 | 77-125 |
| 10061-01-5 | cis-1,3-Dichloropropene | 50 | 38.3 | 77 | 76-123 |

# Blank Spike Summary

**Job Number:** JB5665
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2D4499-BS | 2D108979.D | 1 | 05/09/12 | ET | n/a | n/a | V2D4499 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5665-6, JB5665-7, JB5665-8, JB5665-9, JB5665-10, JB5665-11, JB5665-12

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 10061-02-6 | trans-1,3-Dichloropropene | 50 | 42.7 | 85 | 74-129 |
| 100-41-4 | Ethylbenzene | 50 | 43.8 | 88 | 77-119 |
| 87-68-3 | Hexachlorobutadiene | 50 | 43.1 | 86 | 66-137 |
| 98-82-8 | Isopropylbenzene | 50 | 41.2 | 82 | 74-125 |
| 99-87-6 | p-Isopropyltoluene | 50 | 43.3 | 87 | 78-128 |
| 1634-04-4 | Methyl Tert Butyl Ether | 100 | 92.1 | 92 | 72-125 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | 50 | 44.7 | 89 | 68-131 |
| 74-95-3 | Methylene bromide | 50 | 47.8 | 96 | 79-129 |
| 75-09-2 | Methylene chloride | 50 | 44.0 | 88 | 73-122 |
| 91-20-3 | Naphthalene | 50 | 46.7 | 93 | 61-136 |
| 103-65-1 | n-Propylbenzene | 50 | 42.2 | 84 | 73-121 |
| 100-42-5 | Styrene | 50 | 42.5 | 85 | 77-121 |
| 75-65-0 | Tert Butyl Alcohol | 250 | 200 | 80 | 67-136 |
| 994-05-8 | tert-Amyl Methyl Ether | 50 | 45.6 | 91 | 69-125 |
| 637-92-3 | tert-Butyl Ethyl Ether | 50 | 45.4 | 91 | 67-129 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 50 | 44.9 | 90 | 80-128 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 50 | 39.3 | 79 | 70-121 |
| 127-18-4 | Tetrachloroethene | 50 | 52.6 | 105 | 64-148 |
| 108-88-3 | Toluene | 50 | 42.9 | 86 | 77-122 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 50 | 47.5 | 95 | 69-136 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 50 | 45.1 | 90 | 73-133 |
| 71-55-6 | 1,1,1-Trichloroethane | 50 | 52.8 | 106 | 76-135 |
| 79-00-5 | 1,1,2-Trichloroethane | 50 | 43.0 | 86 | 79-125 |
| 79-01-6 | Trichloroethene | 50 | 45.2 | 90 | 80-129 |
| 75-69-4 | Trichlorofluoromethane | 50 | 57.5 | 115 | 66-145 |
| 96-18-4 | 1,2,3-Trichloropropane | 50 | 44.1 | 88 | 72-130 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 50 | 42.8 | 86 | 77-123 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 50 | 42.3 | 85 | 76-123 |
| 75-01-4 | Vinyl chloride | 50 | 39.5 | 79 | 56-133 |
| | m,p-Xylene | 100 | 84.4 | 84 | 77-121 |
| 95-47-6 | o-Xylene | 50 | 42.0 | 84 | 80-124 |
| 1330-20-7 | Xylene (total) | 150 | 126 | 84 | 78-121 |

# Blank Spike Summary



**Job Number:** JB5665
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2D4499-BS | 2D108979.D | 1 | 05/09/12 | ET | n/a | n/a | V2D4499 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5665-6, JB5665-7, JB5665-8, JB5665-9, JB5665-10, JB5665-11, JB5665-12

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 97% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 115% | 70-127% |
| 2037-26-5 | Toluene-D8 | 96% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 94% | 76-118% |

# Blank Spike Summary



**Job Number:** JB5665
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2D4500-BS | 2D109001.D | 1 | 05/10/12 | ET | n/a | n/a | V2D4500 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5665-8, JB5665-9, JB5665-10, JB5665-11, JB5665-12

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 1634-04-4 | Methyl Tert Butyl Ether | 100 | 99.6 | 100 | 72-125 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 98% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 114% | 70-127% |
| 2037-26-5 | Toluene-D8 | 97% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 94% | 76-118% |

# Blank Spike Summary



**Job Number:** JB5665
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2B4315-BS | 2B95599.D | 1 | 05/10/12 | DR | n/a | n/a | V2B4315 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5665-5

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 1634-04-4 | Methyl Tert Butyl Ether | 100 | 108 | 108 | 72-125 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 111% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 109% | 70-127% |
| 2037-26-5 | Toluene-D8 | 114% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 101% | 76-118% |

# Matrix Spike Summary



**Job Number:** JB5665
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5665-4MS | 2B95537.D | 1 | 05/08/12 | DR | n/a | n/a | V2B4312 |
| JB5665-4 | 2B95539.D | 1 | 05/08/12 | DR | n/a | n/a | V2B4312 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5665-1, JB5665-2, JB5665-3, JB5665-4, JB5665-5

| CAS No. | Compound | JB5665-4 ug/l | Q | Spike ug/l | MS ug/l | MS % | Limits |
|---|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 50 | 60.0 | 120 | 40-139 |
| 108-20-3 | Di-Isopropyl ether | ND | | 50 | 63.0 | 126 | 51-136 |
| 100-41-4 | Ethylbenzene | ND | | 50 | 58.1 | 116 | 40-140 |
| 1634-04-4 | Methyl Tert Butyl Ether | 1.2 | | 50 | 59.6 | 117 | 54-136 |
| 75-65-0 | Tert Butyl Alcohol | ND | | 250 | 307 | 123 | 57-153 |
| 994-05-8 | tert-Amyl Methyl Ether | ND | | 50 | 55.8 | 112 | 60-133 |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | | 50 | 59.9 | 120 | 59-134 |
| 108-88-3 | Toluene | ND | | 50 | 59.3 | 119 | 47-140 |
| 1330-20-7 | Xylene (total) | ND | | 150 | 173 | 115 | 42-140 |

| CAS No. | Surrogate Recoveries | MS | JB5665-4 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 110% | 109% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 108% | 110% | 70-127% |
| 2037-26-5 | Toluene-D8 | 113% | 111% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 103% | 101% | 76-118% |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB5665
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5665-11MS | 2D108980.D | 10 | 05/09/12 | ET | n/a | n/a | V2D4499 |
| JB5665-11MSD | 2D108981.D | 10 | 05/09/12 | ET | n/a | n/a | V2D4499 |
| JB5665-11 | 2D108983.D | 10 | 05/10/12 | ET | n/a | n/a | V2D4499 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5665-6, JB5665-7, JB5665-8, JB5665-9, JB5665-10, JB5665-11, JB5665-12

| CAS No. | Compound | JB5665-11 ug/l | Q | Spike ug/l | MS ug/l | MS % | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | | 500 | 425 | 85 | 440 | 88 | 3 | 39-150/20 |
| 71-43-2 | Benzene | 2.9 | J | 500 | 398 | 79 | 404 | 80 | 1 | 40-139/12 |
| 108-86-1 | Bromobenzene | ND | | 500 | 384 | 77 | 396 | 79 | 3 | 67-131/12 |
| 74-97-5 | Bromochloromethane | ND | | 500 | 415 | 83 | 417 | 83 | 0 | 67-134/12 |
| 75-27-4 | Bromodichloromethane | ND | | 500 | 456 | 91 | 460 | 92 | 1 | 68-135/12 |
| 75-25-2 | Bromoform | ND | | 500 | 431 | 86 | 429 | 86 | 0 | 55-141/14 |
| 74-83-9 | Bromomethane | ND | | 500 | 582 | 116 | 590 | 118 | 1 | 49-145/16 |
| 78-93-3 | 2-Butanone (MEK) | ND | | 500 | 431 | 86 | 422 | 84 | 2 | 55-141/15 |
| 104-51-8 | n-Butylbenzene | ND | | 500 | 387 | 77 | 406 | 81 | 5 | 55-139/15 |
| 135-98-8 | sec-Butylbenzene | ND | | 500 | 396 | 79 | 411 | 82 | 4 | 55-137/14 |
| 98-06-6 | tert-Butylbenzene | ND | | 500 | 394 | 79 | 407 | 81 | 3 | 58-137/15 |
| 56-23-5 | Carbon tetrachloride | ND | | 500 | 499 | 100 | 516 | 103 | 3 | 52-155/16 |
| 108-90-7 | Chlorobenzene | ND | | 500 | 394 | 79 | 401 | 80 | 2 | 66-129/11 |
| 75-00-3 | Chloroethane | ND | | 500 | 553 | 111 | 560 | 112 | 1 | 50-140/16 |
| 67-66-3 | Chloroform | ND | | 500 | 451 | 90 | 455 | 91 | 1 | 63-133/13 |
| 74-87-3 | Chloromethane | ND | | 500 | 427 | 85 | 432 | 86 | 1 | 43-138/17 |
| 95-49-8 | o-Chlorotoluene | ND | | 500 | 374 | 75 | 385 | 77 | 3 | 62-132/13 |
| 106-43-4 | p-Chlorotoluene | ND | | 500 | 384 | 77 | 399 | 80 | 4 | 62-129/13 |
| 108-20-3 | Di-Isopropyl ether | 24.1 | J | 500 | 468 | 89 | 467 | 89 | 0 | 51-136/11 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | | 500 | 472 | 94 | 476 | 95 | 1 | 57-142/14 |
| 124-48-1 | Dibromochloromethane | ND | | 500 | 429 | 86 | 433 | 87 | 1 | 64-136/12 |
| 106-93-4 | 1,2-Dibromoethane | ND | | 500 | 404 | 81 | 410 | 82 | 1 | 69-132/11 |
| 95-50-1 | 1,2-Dichlorobenzene | ND | | 500 | 401 | 80 | 415 | 83 | 3 | 69-129/11 |
| 541-73-1 | 1,3-Dichlorobenzene | ND | | 500 | 378 | 76 | 392 | 78 | 4 | 66-130/12 |
| 106-46-7 | 1,4-Dichlorobenzene | ND | | 500 | 392 | 78 | 404 | 81 | 3 | 66-127/12 |
| 75-71-8 | Dichlorodifluoromethane | ND | | 500 | 557 | 111 | 567 | 113 | 2 | 31-166/20 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 500 | 415 | 83 | 425 | 85 | 2 | 58-132/13 |
| 107-06-2 | 1,2-Dichloroethane | ND | | 500 | 505 | 101 | 500 | 100 | 1 | 62-145/12 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 500 | 418 | 84 | 431 | 86 | 3 | 43-142/17 |
| 156-59-2 | cis-1,2-Dichloroethene | ND | | 500 | 400 | 80 | 406 | 81 | 1 | 55-132/12 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 500 | 389 | 78 | 405 | 81 | 4 | 53-132/14 |
| 78-87-5 | 1,2-Dichloropropane | ND | | 500 | 389 | 78 | 400 | 80 | 3 | 65-128/12 |
| 142-28-9 | 1,3-Dichloropropane | ND | | 500 | 396 | 79 | 388 | 78 | 2 | 68-127/11 |
| 594-20-7 | 2,2-Dichloropropane | ND | | 500 | 362 | 72 | 365 | 73 | 1 | 41-146/16 |
| 563-58-6 | 1,1-Dichloropropene | ND | | 500 | 426 | 85 | 437 | 87 | 3 | 54-139/15 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 500 | 378 | 76 | 384 | 77 | 2 | 66-130/12 |

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** JB5665
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5665-11MS | 2D108980.D | 10 | 05/09/12 | ET | n/a | n/a | V2D4499 |
| JB5665-11MSD | 2D108981.D | 10 | 05/09/12 | ET | n/a | n/a | V2D4499 |
| JB5665-11 | 2D108983.D | 10 | 05/10/12 | ET | n/a | n/a | V2D4499 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5665-6, JB5665-7, JB5665-8, JB5665-9, JB5665-10, JB5665-11, JB5665-12

| CAS No. | Compound | JB5665-11 ug/l | Q | Spike ug/l | MS ug/l | MS % | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 500 | 395 | 79 | 400 | 80 | 1 | 64-135/13 |
| 100-41-4 | Ethylbenzene | ND | | 500 | 410 | 82 | 412 | 82 | 0 | 40-140/12 |
| 87-68-3 | Hexachlorobutadiene | ND | | 500 | 419 | 84 | 448 | 90 | 7 | 51-141/16 |
| 98-82-8 | Isopropylbenzene | ND | | 500 | 384 | 77 | 399 | 80 | 4 | 56-138/13 |
| 99-87-6 | p-Isopropyltoluene | ND | | 500 | 390 | 78 | 404 | 81 | 4 | 58-136/14 |
| 1634-04-4 | Methyl Tert Butyl Ether | 4140 | E | 500 | 4320 | 36* [a] | 4270 | 26* [a] | 1 | 54-136/12 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | | 500 | 412 | 82 | 402 | 80 | 2 | 61-138/14 |
| 74-95-3 | Methylene bromide | ND | | 500 | 426 | 85 | 433 | 87 | 2 | 70-134/12 |
| 75-09-2 | Methylene chloride | ND | | 500 | 406 | 81 | 418 | 84 | 3 | 60-130/13 |
| 91-20-3 | Naphthalene | ND | | 500 | 439 | 88 | 452 | 90 | 3 | 51-149/14 |
| 103-65-1 | n-Propylbenzene | ND | | 500 | 385 | 77 | 399 | 80 | 4 | 51-138/14 |
| 100-42-5 | Styrene | ND | | 500 | 393 | 79 | 393 | 79 | 0 | 59-132/13 |
| 75-65-0 | Tert Butyl Alcohol | 1240 | | 2500 | 3920 | 107 | 3910 | 107 | 0 | 57-153/16 |
| 994-05-8 | tert-Amyl Methyl Ether | 62.9 | | 500 | 529 | 93 | 519 | 91 | 2 | 60-133/11 |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | | 500 | 487 | 97 | 481 | 96 | 1 | 59-134/11 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | | 500 | 419 | 84 | 421 | 84 | 0 | 69-134/12 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 500 | 380 | 76 | 381 | 76 | 0 | 65-128/12 |
| 127-18-4 | Tetrachloroethene | ND | | 500 | 414 | 83 | 427 | 85 | 3 | 52-143/15 |
| 108-88-3 | Toluene | ND | | 500 | 402 | 80 | 417 | 83 | 4 | 47-140/12 |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | | 500 | 446 | 89 | 460 | 92 | 3 | 62-137/14 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | | 500 | 408 | 82 | 436 | 87 | 7 | 64-136/14 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 500 | 480 | 96 | 481 | 96 | 0 | 55-146/15 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | | 500 | 401 | 80 | 396 | 79 | 1 | 70-129/12 |
| 79-01-6 | Trichloroethene | ND | | 500 | 410 | 82 | 429 | 86 | 5 | 54-142/14 |
| 75-69-4 | Trichlorofluoromethane | ND | | 500 | 616 | 123 | 615 | 123 | 0 | 45-159/19 |
| 96-18-4 | 1,2,3-Trichloropropane | ND | | 500 | 416 | 83 | 418 | 84 | 0 | 64-137/13 |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | | 500 | 392 | 78 | 403 | 81 | 3 | 40-147/12 |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | | 500 | 391 | 78 | 404 | 81 | 3 | 50-142/13 |
| 75-01-4 | Vinyl chloride | ND | | 500 | 474 | 95 | 476 | 95 | 0 | 42-145/18 |
| | m,p-Xylene | ND | | 1000 | 791 | 79 | 799 | 80 | 1 | 39-141/12 |
| 95-47-6 | o-Xylene | ND | | 500 | 389 | 78 | 387 | 77 | 1 | 51-138/12 |
| 1330-20-7 | Xylene (total) | ND | | 1500 | 1180 | 79 | 1190 | 79 | 1 | 42-140/12 |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB5665
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5665-11MS | 2D108980.D | 10 | 05/09/12 | ET | n/a | n/a | V2D4499 |
| JB5665-11MSD | 2D108981.D | 10 | 05/09/12 | ET | n/a | n/a | V2D4499 |
| JB5665-11 | 2D108983.D | 10 | 05/10/12 | ET | n/a | n/a | V2D4499 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5665-6, JB5665-7, JB5665-8, JB5665-9, JB5665-10, JB5665-11, JB5665-12

| CAS No. | Surrogate Recoveries | MS | MSD | JB5665-11 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 99% | 98% | 99% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 113% | 110% | 115% | 70-127% |
| 2037-26-5 | Toluene-D8 | 96% | 99% | 96% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 93% | 94% | 94% | 76-118% |

(a) Outside control limits due to high level in sample relative to spike amount.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB5665
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5819-1MS | 2D109008.D | 1 | 05/10/12 | ET | n/a | n/a | V2D4500 |
| JB5819-1MSD | 2D109009.D | 1 | 05/10/12 | ET | n/a | n/a | V2D4500 |
| JB5819-1 | 2D109003.D | 1 | 05/10/12 | ET | n/a | n/a | V2D4500 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5665-8, JB5665-9, JB5665-10, JB5665-11, JB5665-12

| CAS No. | Compound | JB5819-1 ug/l | Q | Spike ug/l | MS ug/l | MS % | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| 1634-04-4 | Methyl Tert Butyl Ether | 0.29 | J | 50 | 49.0 | 97 | 48.9 | 97 | 0 | 54-136/12 |

| CAS No. | Surrogate Recoveries | MS | MSD | JB5819-1 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 98% | 99% | 100% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 113% | 113% | 117% | 70-127% |
| 2037-26-5 | Toluene-D8 | 96% | 96% | 96% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 94% | 95% | 94% | 76-118% |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB5665
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5584-5MS | 2B95608.D | 1 | 05/10/12 | DR | n/a | n/a | V2B4315 |
| JB5584-5MSD | 2B95609.D | 1 | 05/10/12 | DR | n/a | n/a | V2B4315 |
| JB5584-5 | 2B95603.D | 1 | 05/10/12 | DR | n/a | n/a | V2B4315 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5665-5

| CAS No. | Compound | JB5584-5 ug/l | Q | Spike ug/l | MS ug/l | MS % | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 50 | 48.2 | 96 | 49.9 | 100 | 3 | 54-136/12 |

| CAS No. | Surrogate Recoveries | MS | MSD | JB5584-5 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 110% | 109% | 112% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 108% | 107% | 111% | 70-127% |
| 2037-26-5 | Toluene-D8 | 112% | 113% | 111% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 102% | 102% | 101% | 76-118% |

# Duplicate Summary



**Job Number:** JB5665
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5665-1DUP | 2B95540.D | 1 | 05/08/12 | DR | n/a | n/a | V2B4312 |
| JB5665-1 | 2B95541.D | 1 | 05/08/12 | DR | n/a | n/a | V2B4312 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5665-1, JB5665-2, JB5665-3, JB5665-4, JB5665-5

| CAS No. | Compound | JB5665-1 ug/l | Q | DUP ug/l | Q | RPD | Limits |
|---|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | ND | | nc | 10 |
| 108-20-3 | Di-Isopropyl ether | ND | | ND | | nc | 10 |
| 100-41-4 | Ethylbenzene | ND | | ND | | nc | 12 |
| 1634-04-4 | Methyl Tert Butyl Ether | 2.3 | | 2.2 | | 4 | 16 |
| 75-65-0 | Tert Butyl Alcohol | ND | | ND | | nc | 11 |
| 994-05-8 | tert-Amyl Methyl Ether | ND | | ND | | nc | 10 |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | | ND | | nc | 10 |
| 108-88-3 | Toluene | ND | | ND | | nc | 10 |
| 1330-20-7 | Xylene (total) | ND | | ND | | nc | 13 |

| CAS No. | Surrogate Recoveries | DUP | JB5665-1 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 108% | 111% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 111% | 110% | 70-127% |
| 2037-26-5 | Toluene-D8 | 112% | 113% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 101% | 101% | 76-118% |

# Instrument Performance Check (BFB)



**Job Number:** JB5665
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Sample:** V2B4212-BFB
**Lab File ID:** 2B93453.D
**Instrument ID:** GCMS2B
**Injection Date:** 03/09/12
**Injection Time:** 09:57



| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 21824 | 19.4 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 54306 | 48.3 | | Pass |
| 95 | Base peak, 100% relative abundance | 112544 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 7566 | 6.72 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 150.0% of mass 95 | 110706 | 98.4 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 8263 | 7.34 | (7.46) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 107354 | 95.4 | (97.0) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 7173 | 6.37 | (6.68) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2B4212-IC4212 | 2B93454.D | 03/09/12 | 10:25 | 00:28 | Initial cal 0.5 |
| V2B4212-IC4212 | 2B93455.D | 03/09/12 | 10:56 | 00:59 | Initial cal 1 |
| V2B4212-IC4212 | 2B93456.D | 03/09/12 | 11:27 | 01:30 | Initial cal 2 |
| V2B4212-IC4212 | 2B93457.D | 03/09/12 | 11:59 | 02:02 | Initial cal 5 |
| V2B4212-IC4212 | 2B93458.D | 03/09/12 | 12:30 | 02:33 | Initial cal 10 |
| V2B4212-IC4212 | 2B93459.D | 03/09/12 | 13:01 | 03:04 | Initial cal 20 |
| V2B4212-ICC4212 | 2B93460.D | 03/09/12 | 13:33 | 03:36 | Initial cal 50 |
| V2B4212-IC4212 | 2B93461.D | 03/09/12 | 14:04 | 04:07 | Initial cal 100 |
| V2B4212-IC4212 | 2B93462.D | 03/09/12 | 14:35 | 04:38 | Initial cal 200 |
| V2B4212-ICV4212 | 2B93465.D | 03/09/12 | 16:09 | 06:12 | Initial cal verification 50 |
| V2B4212-ICV4212 | 2B93466.D | 03/09/12 | 17:18 | 07:21 | Initial cal verification 50 |

# Instrument Performance Check (BFB)



**Job Number:** JB5665
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Sample:** V2B4312-BFB
**Lab File ID:** 2B95532.D
**Instrument ID:** GCMS2B
**Injection Date:** 05/08/12
**Injection Time:** 17:06



| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 17854 | 19.4 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 43474 | 47.2 | | Pass |
| 95 | Base peak, 100% relative abundance | 92130 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 6088 | 6.61 | | Pass |
| 173 | Less than 2.0% of mass 174 | 803 | 0.87 | (0.93) [a] | Pass |
| 174 | 50.0 - 150.0% of mass 95 | 86416 | 93.8 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 6431 | 6.98 | (7.44) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 85173 | 92.4 | (98.6) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 5489 | 5.96 | (6.44) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2B4312-CC4212 | 2B95533.D | 05/08/12 | 17:33 | 00:27 | Continuing cal 50 |
| V2B4312-MB | 2B95535.D | 05/08/12 | 18:36 | 01:30 | Method Blank |
| V2B4312-BS | 2B95536.D | 05/08/12 | 19:07 | 02:01 | Blank Spike |
| JB5665-4MS | 2B95537.D | 05/08/12 | 19:39 | 02:33 | Matrix Spike |
| JB5665-4 | 2B95539.D | 05/08/12 | 20:41 | 03:35 | 137675-MW-04 |
| JB5665-1DUP | 2B95540.D | 05/08/12 | 21:13 | 04:07 | Duplicate |
| JB5665-1 | 2B95541.D | 05/08/12 | 21:44 | 04:38 | 137675-730 BND |
| JB5665-2 | 2B95542.D | 05/08/12 | 22:16 | 05:10 | 137675-730 BNS |
| JB5665-3 | 2B95543.D | 05/08/12 | 22:47 | 05:41 | 137675-MW-02 |
| JB5665-5 | 2B95544.D | 05/08/12 | 23:18 | 06:12 | 137675-MW-08D |
| JB5665-5 | 2B95545.D | 05/08/12 | 23:50 | 06:44 | 137675-MW-08D |
| ZZZZZZ | 2B95546.D | 05/09/12 | 00:21 | 07:15 | (unrelated sample) |
| ZZZZZZ | 2B95547.D | 05/09/12 | 00:52 | 07:46 | (unrelated sample) |
| ZZZZZZ | 2B95548.D | 05/09/12 | 01:24 | 08:18 | (unrelated sample) |
| ZZZZZZ | 2B95549.D | 05/09/12 | 01:55 | 08:49 | (unrelated sample) |
| ZZZZZZ | 2B95550.D | 05/09/12 | 02:27 | 09:21 | (unrelated sample) |
| ZZZZZZ | 2B95551.D | 05/09/12 | 02:59 | 09:53 | (unrelated sample) |
| ZZZZZZ | 2B95552.D | 05/09/12 | 03:30 | 10:24 | (unrelated sample) |
| ZZZZZZ | 2B95553.D | 05/09/12 | 04:02 | 10:56 | (unrelated sample) |

# Instrument Performance Check (BFB)



**Job Number:** JB5665
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Sample:** V2B4315-BFB
**Lab File ID:** 2B95595.D
**Instrument ID:** GCMS2B
**Injection Date:** 05/10/12
**Injection Time:** 09:37



| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 21016 | 19.9 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 51392 | 48.6 | | Pass |
| 95 | Base peak, 100% relative abundance | 105848 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 6984 | 6.60 | | Pass |
| 173 | Less than 2.0% of mass 174 | 308 | 0.29 | (0.31) [a] | Pass |
| 174 | 50.0 - 150.0% of mass 95 | 97794 | 92.4 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 7620 | 7.20 | (7.79) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 95482 | 90.2 | (97.6) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 6226 | 5.88 | (6.52) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2B4315-CC4212 | 2B95596.D | 05/10/12 | 10:22 | 00:45 | Continuing cal 20 |
| V2B4315-MB | 2B95598.D | 05/10/12 | 11:32 | 01:55 | Method Blank |
| V2B4315-BS | 2B95599.D | 05/10/12 | 12:04 | 02:27 | Blank Spike |
| ZZZZZZ | 2B95601.D | 05/10/12 | 13:19 | 03:42 | (unrelated sample) |
| ZZZZZZ | 2B95602.D | 05/10/12 | 13:51 | 04:14 | (unrelated sample) |
| JB5584-5 | 2B95603.D | 05/10/12 | 14:22 | 04:45 | (used for QC only; not part of job JB5665) |
| ZZZZZZ | 2B95604.D | 05/10/12 | 14:54 | 05:17 | (unrelated sample) |
| ZZZZZZ | 2B95605.D | 05/10/12 | 15:25 | 05:48 | (unrelated sample) |
| ZZZZZZ | 2B95606.D | 05/10/12 | 15:57 | 06:20 | (unrelated sample) |
| ZZZZZZ | 2B95607.D | 05/10/12 | 16:28 | 06:51 | (unrelated sample) |
| JB5584-5MS | 2B95608.D | 05/10/12 | 16:59 | 07:22 | Matrix Spike |
| JB5584-5MSD | 2B95609.D | 05/10/12 | 17:31 | 07:54 | Matrix Spike Duplicate |
| JB5665-5 | 2B95611.D | 05/10/12 | 18:34 | 08:57 | 137675-MW-08D |
| ZZZZZZ | 2B95612.D | 05/10/12 | 19:05 | 09:28 | (unrelated sample) |
| ZZZZZZ | 2B95613.D | 05/10/12 | 19:37 | 10:00 | (unrelated sample) |
| ZZZZZZ | 2B95614.D | 05/10/12 | 20:08 | 10:31 | (unrelated sample) |
| ZZZZZZ | 2B95615.D | 05/10/12 | 20:40 | 11:03 | (unrelated sample) |
| ZZZZZZ | 2B95616.D | 05/10/12 | 21:11 | 11:34 | (unrelated sample) |

# Instrument Performance Check (BFB)



**Job Number:** JB5665
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Sample:** V2D4362-BFB
**Lab File ID:** 2D105948.D
**Instrument ID:** GCMS2D
**Injection Date:** 02/14/12
**Injection Time:** 15:58



| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 10839 | 16.3 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 29099 | 43.7 | | Pass |
| 95 | Base peak, 100% relative abundance | 66538 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 4372 | 6.57 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 66106 | 99.4 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 5131 | 7.71 | (7.76) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 64706 | 97.2 | (97.9) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 4288 | 6.44 | (6.63) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2D4362-IC4362 | 2D105949.D | 02/14/12 | 17:21 | 01:23 | Initial cal 0.5 |
| V2D4362-IC4362 | 2D105950.D | 02/14/12 | 17:53 | 01:55 | Initial cal 1 |
| V2D4362-IC4362 | 2D105951.D | 02/14/12 | 18:25 | 02:27 | Initial cal 2 |
| V2D4362-IC4362 | 2D105952.D | 02/14/12 | 18:57 | 02:59 | Initial cal 5 |
| V2D4362-IC4362 | 2D105953.D | 02/14/12 | 19:29 | 03:31 | Initial cal 10 |
| V2D4362-IC4362 | 2D105954.D | 02/14/12 | 20:01 | 04:03 | Initial cal 20 |
| V2D4362-ICC4362 | 2D105955.D | 02/14/12 | 20:33 | 04:35 | Initial cal 50 |
| V2D4362-IC4362 | 2D105956.D | 02/14/12 | 21:05 | 05:07 | Initial cal 100 |
| V2D4362-IC4362 | 2D105957.D | 02/14/12 | 21:37 | 05:39 | Initial cal 200 |

# Instrument Performance Check (BFB)



**Job Number:** JB5665
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Sample:** V2D4499-BFB
**Lab File ID:** 2D108975.D
**Instrument ID:** GCMS2D
**Injection Date:** 05/09/12
**Injection Time:** 20:44



| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 11021 | 19.6 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 26869 | 47.7 | | Pass |
| 95 | Base peak, 100% relative abundance | 56304 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 3795 | 6.74 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 56941 | 101.1 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 4356 | 7.74 | (7.65) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 55424 | 98.4 | (97.3) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 3706 | 6.58 | (6.69) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2D4499-CC4362 | 2D108976.D | 05/09/12 | 21:14 | 00:30 | Continuing cal 50 |
| V2D4499-MB | 2D108978.D | 05/09/12 | 22:14 | 01:30 | Method Blank |
| V2D4499-BS | 2D108979.D | 05/09/12 | 22:44 | 02:00 | Blank Spike |
| JB5665-11MS | 2D108980.D | 05/09/12 | 23:14 | 02:30 | Matrix Spike |
| JB5665-11MSD | 2D108981.D | 05/09/12 | 23:44 | 03:00 | Matrix Spike Duplicate |
| JB5665-11 | 2D108983.D | 05/10/12 | 00:44 | 04:00 | 137675-RW-22 |
| JB5665-6 | 2D108984.D | 05/10/12 | 01:14 | 04:30 | 137675-MW-09D |
| JB5665-7 | 2D108985.D | 05/10/12 | 01:44 | 05:00 | 137675-MW-09S |
| JB5665-8 | 2D108986.D | 05/10/12 | 02:14 | 05:30 | 137675-RW-19 |
| JB5665-9 | 2D108987.D | 05/10/12 | 02:44 | 06:00 | 137675-RW-20 |
| JB5665-10 | 2D108988.D | 05/10/12 | 03:15 | 06:31 | 137675-RW-21 |
| JB5665-12 | 2D108989.D | 05/10/12 | 03:45 | 07:01 | 137675-RW-23 |
| ZZZZZZ | 2D108990.D | 05/10/12 | 04:15 | 07:31 | (unrelated sample) |
| ZZZZZZ | 2D108991.D | 05/10/12 | 04:45 | 08:01 | (unrelated sample) |
| ZZZZZZ | 2D108992.D | 05/10/12 | 05:15 | 08:31 | (unrelated sample) |
| ZZZZZZ | 2D108993.D | 05/10/12 | 05:45 | 09:01 | (unrelated sample) |
| ZZZZZZ | 2D108994.D | 05/10/12 | 06:16 | 09:32 | (unrelated sample) |
| ZZZZZZ | 2D108995.D | 05/10/12 | 06:46 | 10:02 | (unrelated sample) |

# Instrument Performance Check (BFB)



**Job Number:** JB5665
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Sample:** V2D4500-BFB
**Lab File ID:** 2D108996.D
**Instrument ID:** GCMS2D
**Injection Date:** 05/10/12
**Injection Time:** 08:49



| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 11457 | 18.2 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 30085 | 47.7 | | Pass |
| 95 | Base peak, 100% relative abundance | 63018 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 3964 | 6.29 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 61810 | 98.1 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 4690 | 7.44 | (7.59) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 59026 | 93.7 | (95.5) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 3840 | 6.09 | (6.51) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2D4500-CC4362 | 2D108998.D | 05/10/12 | 10:02 | 01:13 | Continuing cal 20 |
| V2D4500-MB | 2D109000.D | 05/10/12 | 11:09 | 02:20 | Method Blank |
| V2D4500-BS | 2D109001.D | 05/10/12 | 11:47 | 02:58 | Blank Spike |
| JB5665-8 | 2D109002.D | 05/10/12 | 12:25 | 03:36 | 137675-RW-19 |
| JB5819-1 | 2D109003.D | 05/10/12 | 12:55 | 04:06 | (used for QC only; not part of job JB5665) |
| ZZZZZZ | 2D109004.D | 05/10/12 | 13:25 | 04:36 | (unrelated sample) |
| ZZZZZZ | 2D109005.D | 05/10/12 | 13:55 | 05:06 | (unrelated sample) |
| ZZZZZZ | 2D109006.D | 05/10/12 | 14:25 | 05:36 | (unrelated sample) |
| ZZZZZZ | 2D109007.D | 05/10/12 | 14:55 | 06:06 | (unrelated sample) |
| JB5819-1MS | 2D109008.D | 05/10/12 | 15:25 | 06:36 | Matrix Spike |
| JB5819-1MSD | 2D109009.D | 05/10/12 | 15:56 | 07:07 | Matrix Spike Duplicate |
| JB5665-9 | 2D109010.D | 05/10/12 | 16:26 | 07:37 | 137675-RW-20 |
| ZZZZZZ | 2D109011.D | 05/10/12 | 16:56 | 08:07 | (unrelated sample) |
| ZZZZZZ | 2D109012.D | 05/10/12 | 17:26 | 08:37 | (unrelated sample) |
| ZZZZZZ | 2D109013.D | 05/10/12 | 17:56 | 09:07 | (unrelated sample) |
| ZZZZZZ | 2D109014.D | 05/10/12 | 18:25 | 09:36 | (unrelated sample) |
| ZZZZZZ | 2D109015.D | 05/10/12 | 18:55 | 10:06 | (unrelated sample) |
| JB5665-10 | 2D109016.D | 05/10/12 | 19:25 | 10:36 | 137675-RW-21 |
| JB5665-11 | 2D109017.D | 05/10/12 | 19:55 | 11:06 | 137675-RW-22 |
| JB5665-12 | 2D109018.D | 05/10/12 | 20:25 | 11:36 | 137675-RW-23 |

# Volatile Surrogate Recovery Summary



**Job Number:** JB5665
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Method:** SW846 8260B **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 | S2 | S3 | S4 |
|---|---|---|---|---|---|
| JB5665-1 | 2B95541.D | 111.0 | 110.0 | 113.0 | 101.0 |
| JB5665-2 | 2B95542.D | 111.0 | 111.0 | 112.0 | 101.0 |
| JB5665-3 | 2B95543.D | 108.0 | 111.0 | 112.0 | 103.0 |
| JB5665-4 | 2B95539.D | 109.0 | 110.0 | 111.0 | 101.0 |
| JB5665-5 | 2B95545.D | 106.0 | 109.0 | 112.0 | 102.0 |
| JB5665-5 | 2B95611.D | 109.0 | 108.0 | 111.0 | 102.0 |
| JB5665-5 | 2B95544.D | 109.0 | 111.0 | 113.0 | 101.0 |
| JB5665-6 | 2D108984.D | 98.0 | 114.0 | 97.0 | 95.0 |
| JB5665-7 | 2D108985.D | 98.0 | 115.0 | 96.0 | 93.0 |
| JB5665-8 | 2D109002.D | 99.0 | 115.0 | 96.0 | 93.0 |
| JB5665-8 | 2D108986.D | 98.0 | 115.0 | 95.0 | 94.0 |
| JB5665-9 | 2D109010.D | 98.0 | 111.0 | 96.0 | 94.0 |
| JB5665-9 | 2D108987.D | 98.0 | 117.0 | 95.0 | 94.0 |
| JB5665-10 | 2D109016.D | 99.0 | 118.0 | 96.0 | 95.0 |
| JB5665-10 | 2D108988.D | 99.0 | 118.0 | 96.0 | 91.0 |
| JB5665-11 | 2D109017.D | 100.0 | 119.0 | 95.0 | 94.0 |
| JB5665-11 | 2D108983.D | 99.0 | 115.0 | 96.0 | 94.0 |
| JB5665-12 | 2D109018.D | 100.0 | 120.0 | 96.0 | 95.0 |
| JB5665-12 | 2D108989.D | 101.0 | 119.0 | 95.0 | 94.0 |
| JB5584-5MS | 2B95608.D | 110.0 | 108.0 | 112.0 | 102.0 |
| JB5584-5MSD | 2B95609.D | 109.0 | 107.0 | 113.0 | 102.0 |
| JB5665-11MS | 2D108980.D | 99.0 | 113.0 | 96.0 | 93.0 |
| JB5665-11MSD | 2D108981.D | 98.0 | 110.0 | 99.0 | 94.0 |
| JB5665-1DUP | 2B95540.D | 108.0 | 111.0 | 112.0 | 101.0 |
| JB5665-4MS | 2B95537.D | 110.0 | 108.0 | 113.0 | 103.0 |
| JB5819-1MS | 2D109008.D | 98.0 | 113.0 | 96.0 | 94.0 |
| JB5819-1MSD | 2D109009.D | 99.0 | 113.0 | 96.0 | 95.0 |
| V2B4312-BS | 2B95536.D | 108.0 | 109.0 | 113.0 | 103.0 |
| V2B4312-MB | 2B95535.D | 108.0 | 110.0 | 113.0 | 100.0 |
| V2B4315-BS | 2B95599.D | 111.0 | 109.0 | 114.0 | 101.0 |
| V2B4315-MB | 2B95598.D | 110.0 | 111.0 | 113.0 | 99.0 |
| V2D4499-BS | 2D108979.D | 97.0 | 115.0 | 96.0 | 94.0 |
| V2D4499-MB | 2D108978.D | 100.0 | 117.0 | 96.0 | 95.0 |
| V2D4500-BS | 2D109001.D | 98.0 | 114.0 | 97.0 | 94.0 |
| V2D4500-MB | 2D109000.D | 99.0 | 116.0 | 96.0 | 94.0 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = Dibromofluoromethane | 77-120% |

# Volatile Surrogate Recovery Summary



**Job Number:** JB5665
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Method:** SW846 8260B **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S2** = 1,2-Dichloroethane-D4 | 70-127% |
| **S3** = Toluene-D8 | 79-120% |
| **S4** = 4-Bromofluorobenzene | 76-118% |

New Jersey

ACCUTEST LABORATORIES



# GC Volatiles

## QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

# Method Blank Summary



**Job Number:** JB5665
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| GPF2736-MB1 | PF97434.D | 1 | 05/07/12 | DJ | n/a | n/a | GPF2736 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB5665-1, JB5665-3, JB5665-4, JB5665-5, JB5665-11, JB5665-12

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 84% | 68-114% |

# Method Blank Summary



**Job Number:** JB5665
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| GPF2736-MB2 | PF97445.D | 1 | 05/07/12 | DJ | n/a | n/a | GPF2736 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB5665-6, JB5665-7, JB5665-8, JB5665-9, JB5665-10

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 80% | 68-114% |

# Method Blank Summary



**Job Number:** JB5665
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| GPF2736-MB3 | PF97456.D | 1 | 05/07/12 | DJ | n/a | n/a | GPF2736 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB5665-2

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 81% | 68-114% |

# Blank Spike Summary



**Job Number:** JB5665
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| GPF2736-BS | PF97443.D | 1 | 05/07/12 | DJ | n/a | n/a | GPF2736 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB5665-1, JB5665-2, JB5665-3, JB5665-4, JB5665-5, JB5665-6, JB5665-7, JB5665-8, JB5665-9, JB5665-10, JB5665-11, JB5665-12

| CAS No. | Compound | Spike mg/l | BSP mg/l | BSP % | Limits |
|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 8 | 7.61 | 95 | 72-125 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 109% | 68-114% |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB5665
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5665-4MS | PF97441.D | 1 | 05/07/12 | DJ | n/a | n/a | GPF2736 |
| JB5665-4MSD | PF97442.D | 1 | 05/07/12 | DJ | n/a | n/a | GPF2736 |
| JB5665-4 | PF97436.D | 1 | 05/07/12 | DJ | n/a | n/a | GPF2736 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB5665-1, JB5665-2, JB5665-3, JB5665-4, JB5665-5, JB5665-6, JB5665-7, JB5665-8, JB5665-9, JB5665-10, JB5665-11, JB5665-12

| CAS No. | Compound | JB5665-4 mg/l | Q | Spike mg/l | MS mg/l | MS % | MSD mg/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | | 8 | 8.81 | 110 | 9.08 | 114 | 3 | 46-131/20 |

| CAS No. | Surrogate Recoveries | MS | MSD | JB5665-4 | Limits |
|---|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 102% | 103% | 80% | 68-114% |

# Volatile Surrogate Recovery Summary



**Job Number:** JB5665
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Method:** SW846 8015C **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 [a] |
|---|---|---|
| JB5665-1 | PF97440.D | 80.0 |
| JB5665-2 | PF97461.D | 77.0 |
| JB5665-3 | PF97435.D | 82.0 |
| JB5665-4 | PF97436.D | 80.0 |
| JB5665-5 | PF97439.D | 86.0 |
| JB5665-6 | PF97446.D | 79.0 |
| JB5665-7 | PF97447.D | 78.0 |
| JB5665-8 | PF97449.D | 85.0 |
| JB5665-9 | PF97450.D | 83.0 |
| JB5665-10 | PF97448.D | 84.0 |
| JB5665-11 | PF97438.D | 89.0 |
| JB5665-12 | PF97437.D | 86.0 |
| GPF2736-BS | PF97443.D | 109.0 |
| GPF2736-MB1 | PF97434.D | 84.0 |
| GPF2736-MB2 | PF97445.D | 80.0 |
| GPF2736-MB3 | PF97456.D | 81.0 |
| JB5665-4MS | PF97441.D | 102.0 |
| JB5665-4MSD | PF97442.D | 103.0 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = aaa-Trifluorotoluene | 68-114% |

(a) Recovery from GC signal #1

New Jersey
ACCUTEST LABORATORIES

# GC Semi-volatiles

## QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

# Method Blank Summary



**Job Number:** JB5665
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP56782-MB1 | 2Y44749.D | 1 | 05/10/12 | CS | 05/07/12 | OP56782 | G2Y1837 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB5665-1, JB5665-2, JB5665-3, JB5665-4, JB5665-5, JB5665-6, JB5665-7, JB5665-8, JB5665-9, JB5665-10, JB5665-11, JB5665-12

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 84-15-1 | o-Terphenyl | 77% | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 65% | 32-138% |
| 438-22-2 | 5a-Androstane | 76% | 31-136% |

# Blank Spike Summary



**Job Number:** JB5665
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP56782-BS1 | 2Y44750.D | 1 | 05/10/12 | CS | 05/07/12 | OP56782 | G2Y1837 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB5665-1, JB5665-2, JB5665-3, JB5665-4, JB5665-5, JB5665-6, JB5665-7, JB5665-8, JB5665-9, JB5665-10, JB5665-11, JB5665-12

| CAS No. | Compound | Spike mg/l | BSP mg/l | BSP % | Limits |
|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | 1 | 0.873 | 87 | 15-111 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 84-15-1 | o-Terphenyl | 87% | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 74% | 32-138% |
| 438-22-2 | 5a-Androstane | 88% | 31-136% |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB5665
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP56782-MS | 2Y44751.D | 1 | 05/10/12 | CS | 05/07/12 | OP56782 | G2Y1837 |
| OP56782-MSD | 2Y44752.D | 1 | 05/10/12 | CS | 05/07/12 | OP56782 | G2Y1837 |
| JB5665-1 | 2Y44762.D | 1 | 05/10/12 | CS | 05/07/12 | OP56782 | G2Y1837 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB5665-1, JB5665-2, JB5665-3, JB5665-4, JB5665-5, JB5665-6, JB5665-7, JB5665-8, JB5665-9, JB5665-10, JB5665-11, JB5665-12

| CAS No. | Compound | JB5665-1 mg/l | Q | Spike mg/l | MS mg/l | MS % | MSD mg/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | | 2.08 | 1.81 | 87 | 1.91 | 92 | 5 | 23-160/31 |

| CAS No. | Surrogate Recoveries | MS | MSD | JB5665-1 | Limits |
|---|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 80% | 84% | 90% | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 64% | 65% | 67% | 32-138% |
| 438-22-2 | 5a-Androstane | 75% | 77% | 78% | 31-136% |

# Semivolatile Surrogate Recovery Summary



**Job Number:** JB5665
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Method:** SW846 8015C **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 [a] | S2 [a] | S3 [a] |
|---|---|---|---|---|
| JB5665-1 | 2Y44762.D | 90.0 | 67.0 | 78.0 |
| JB5665-2 | 2Y44763.D | 97.0 | 72.0 | 86.0 |
| JB5665-3 | 2Y44764.D | 84.0 | 71.0 | 83.0 |
| JB5665-4 | 2Y44765.D | 85.0 | 72.0 | 84.0 |
| JB5665-5 | 2Y44766.D | 75.0 | 59.0 | 70.0 |
| JB5665-6 | 2Y44767.D | 79.0 | 66.0 | 78.0 |
| JB5665-7 | 2Y44768.D | 78.0 | 67.0 | 76.0 |
| JB5665-8 | 2Y44771.D | 84.0 | 72.0 | 85.0 |
| JB5665-9 | 2Y44772.D | 79.0 | 70.0 | 81.0 |
| JB5665-10 | 2Y44773.D | 78.0 | 67.0 | 80.0 |
| JB5665-11 | 2Y44774.D | 81.0 | 68.0 | 79.0 |
| JB5665-12 | 2Y44775.D | 77.0 | 66.0 | 77.0 |
| OP56782-BS1 | 2Y44750.D | 87.0 | 74.0 | 88.0 |
| OP56782-MB1 | 2Y44749.D | 77.0 | 65.0 | 76.0 |
| OP56782-MS | 2Y44751.D | 80.0 | 64.0 | 75.0 |
| OP56782-MSD | 2Y44752.D | 84.0 | 65.0 | 77.0 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = o-Terphenyl | 36-144% |
| **S2** = Tetracosane-d50 | 32-138% |
| **S3** = 5a-Androstane | 31-136% |

(a) Recovery from GC signal #1

New Jersey
ACCUTEST LABORATORIES

05/16/12

Technical Report for

Shell Oil Products US

URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

INC#97436977

Accutest Job Number: JB5843

Sampling Date: 05/04/12

Report to:

URS Corporation
12420 Milestone Center Drive Suite 150
Germantown, MD 20876
jenna_anthony@urscorp.com; adriane_rogers@urscorp.com

ATTN: Jenna Anthony

Total number of pages in report: **81**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul Ioannidis
Lab Director

Client Service contact: Marty Vitanza 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.



Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

# Table of Contents

-1-

**Section 1: Sample Summary** ..... **3**
**Section 2: Case Narrative/Conformance Summary** ..... **4**
**Section 3: Sample Results** ..... **6**
**3.1:** JB5843-1: 137675-750 BND ..... 7
**3.2:** JB5843-2: 137675-450 BNR ..... 12
**3.3:** JB5843-3: 137675-MW-08S ..... 17
**3.4:** JB5843-4: 137675-RW-01 ..... 22
**3.5:** JB5843-5: 137675-RW-03 ..... 27
**3.6:** JB5843-6: 137675-TF-01 ..... 32
**3.7:** JB5843-7: 137675-TF-02 ..... 37
**Section 4: Misc. Forms** ..... **42**
**4.1:** Chain of Custody ..... 43
**Section 5: GC/MS Volatiles - QC Data Summaries** ..... **47**
**5.1:** Method Blank Summary ..... 48
**5.2:** Blank Spike Summary ..... 54
**5.3:** Matrix Spike/Matrix Spike Duplicate Summary ..... 60
**5.4:** Instrument Performance Checks (BFB) ..... 66
**5.5:** Surrogate Recovery Summaries ..... 70
**Section 6: GC Volatiles - QC Data Summaries** ..... **71**
**6.1:** Method Blank Summary ..... 72
**6.2:** Blank Spike Summary ..... 74
**6.3:** Matrix Spike/Matrix Spike Duplicate Summary ..... 75
**6.4:** Surrogate Recovery Summaries ..... 76
**Section 7: GC Semi-volatiles - QC Data Summaries** ..... **77**
**7.1:** Method Blank Summary ..... 78
**7.2:** Blank Spike Summary ..... 79
**7.3:** Matrix Spike/Matrix Spike Duplicate Summary ..... 80
**7.4:** Surrogate Recovery Summaries ..... 81

Accutest Laboratories

# Sample Summary

Shell Oil Products US

**Job No:** JB5843

URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD
Project No: INC#97436977

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| JB5843-1 | 05/04/12 | 07:10 | RB | 05/05/12 | AQ | Ground Water | 137675-750 BND |
| JB5843-2 | 05/04/12 | 07:00 | RB | 05/05/12 | AQ | Ground Water | 137675-450 BNR |
| JB5843-3 | 05/04/12 | 07:30 | RB | 05/05/12 | AQ | Ground Water | 137675-MW-08S |
| JB5843-4 | 05/04/12 | 09:28 | RB | 05/05/12 | AQ | Ground Water | 137675-RW-01 |
| JB5843-5 | 05/04/12 | 09:15 | RB | 05/05/12 | AQ | Ground Water | 137675-RW-03 |
| JB5843-6 | 05/04/12 | 09:55 | RB | 05/05/12 | AQ | Ground Water | 137675-TF-01 |
| JB5843-7 | 05/04/12 | 09:30 | RB | 05/05/12 | AQ | Ground Water | 137675-TF-02 |

# CASE NARRATIVE / CONFORMANCE SUMMARY

| | | | |
|---|---|---|---|
| **Client:** | Shell Oil Products US | **Job No** | JB5843 |
| **Site:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Sprin | **Report Date** | 5/16/2012 10:23:07 A |

On 05/05/2012, 7 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 1 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB5843 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

## Volatiles by GCMS By Method SW846 8260B

**Matrix:** AQ **Batch ID:** V2B4317

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB5978-1MS, JB5978-1MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for Acetone are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- JB5843-2: (pH=12)Sample pH did not satisfy field preservation criteria.

**Matrix:** AQ **Batch ID:** V2C4359

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB5843-6MS, JB5843-6MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane, Benzene are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 1,2-Dibromo-3-chloropropane, Benzene are outside control limits. Outside control limits due to matrix interference.

## Volatiles by GC By Method SW846 8015C

**Matrix:** AQ **Batch ID:** GUV3869

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB5849-5MS, JB5849-5MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JB5843-2: (pH=11Sample pH did not satisfy field preservation criteria.

## Extractables by GC By Method SW846 8015C

**Matrix:** AQ **Batch ID:** OP56816

- All samples were extracted within the recommended method holding time.
- Sample(s) JB5843-1MS, JB5843-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety.  Data release is authorized by Accutest Laboratories indicated via signature on the report cover

New Jersey

ACCUTEST LABORATORIES



## Sample Results

Report of Analysis

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-750 BND | | |
| **Lab Sample ID:** | JB5843-1 | **Date Sampled:** | 05/04/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/05/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2C95451.D | 5 | 05/10/12 | DR | n/a | n/a | V2C4359 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 50 | 25 | ug/l | |
| 71-43-2 | Benzene | ND | 5.0 | 1.1 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 25 | 0.91 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 25 | 2.0 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 5.0 | 1.1 | ug/l | |
| 75-25-2 | Bromoform | ND | 20 | 1.2 | ug/l | |
| 74-83-9 | Bromomethane | ND | 10 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 50 | 15 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 25 | 1.7 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 25 | 1.0 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 25 | 1.2 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 5.0 | 0.97 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 5.0 | 1.1 | ug/l | |
| 75-00-3 | Chloroethane | ND | 5.0 | 1.8 | ug/l | |
| 67-66-3 | Chloroform | ND | 5.0 | 1.0 | ug/l | |
| 74-87-3 | Chloromethane | ND | 5.0 | 1.1 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 25 | 0.95 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 25 | 0.96 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | 12.6 | 25 | 1.3 | ug/l | J |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 50 | 6.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 5.0 | 1.0 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 10 | 1.0 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 5.0 | 0.92 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 5.0 | 1.4 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 5.0 | 1.3 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 25 | 1.6 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.0 | 0.96 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.0 | 0.90 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 5.0 | 1.4 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 5.0 | 1.1 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 5.0 | 1.6 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.0 | 1.1 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-750 BND | | |
| **Lab Sample ID:** | JB5843-1 | **Date Sampled:** | 05/04/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/05/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 25 | 0.97 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 25 | 1.3 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 25 | 1.8 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.0 | 1.1 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.0 | 0.93 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 5.0 | 1.1 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 25 | 1.2 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 10 | 0.97 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 25 | 0.94 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 958 | 5.0 | 0.92 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 25 | 6.1 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 25 | 2.3 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 10 | 1.0 | ug/l | |
| 91-20-3 | Naphthalene | ND | 25 | 3.4 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 25 | 0.87 | ug/l | |
| 100-42-5 | Styrene | ND | 25 | 1.1 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | ND | 130 | 9.3 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | 7.6 | 25 | 1.6 | ug/l | J |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 25 | 1.0 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 25 | 1.2 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.0 | 1.0 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 5.0 | 1.6 | ug/l | |
| 108-88-3 | Toluene | ND | 5.0 | 0.73 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 25 | 3.4 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 25 | 0.75 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.0 | 1.2 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.0 | 1.2 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 5.0 | 1.1 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 25 | 1.8 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 25 | 2.7 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 10 | 0.90 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 10 | 1.1 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 5.0 | 1.3 | ug/l | |
| | m,p-Xylene | ND | 5.0 | 1.6 | ug/l | |
| 95-47-6 | o-Xylene | ND | 5.0 | 0.87 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 5.0 | 0.87 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 98% | | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-750 BND | | |
| **Lab Sample ID:** | JB5843-1 | **Date Sampled:** | 05/04/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/05/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 95% | | 70-127% |
| 2037-26-5 | Toluene-D8 | 102% | | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 94% | | 76-118% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-750 BND | | |
| **Lab Sample ID:** | JB5843-1 | **Date Sampled:** | 05/04/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/05/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV98156.D | 1 | 05/12/12 | XPL | n/a | n/a | GUV3869 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 1.34 | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 80% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-750 BND | | |
| **Lab Sample ID:** | JB5843-1 | **Date Sampled:** | 05/04/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/05/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Z23642.D | 1 | 05/11/12 | CS | 05/08/12 | OP56816 | G2Z976 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 75% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 67% | | 32-138% |
| 438-22-2 | 5a-Androstane | 72% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-450 BNR | | |
| **Lab Sample ID:** | JB5843-2 | **Date Sampled:** | 05/04/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/05/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | 2B95647.D | 1 | 05/11/12 | DR | n/a | n/a | V2B4317 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | 12.8 | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.21 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | 0.97 | 5.0 | 0.25 | ug/l | J |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.19 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-450 BNR | | |
| **Lab Sample ID:** | JB5843-2 | **Date Sampled:** | 05/04/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/05/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 50.5 | 1.0 | 0.18 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | ND | 5.0 | 0.68 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | ND | 25 | 1.9 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | 0.40 | 5.0 | 0.33 | ug/l | J |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.32 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.21 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 0.23 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.17 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 102% | | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-450 BNR | | |
| **Lab Sample ID:** | JB5843-2 | **Date Sampled:** | 05/04/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/05/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 112% | | 70-127% |
| 2037-26-5 | Toluene-D8 | 111% | | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | | 76-118% |

(a) (pH= 12)Sample pH did not satisfy field preservation criteria.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-450 BNR | | |
| **Lab Sample ID:** | JB5843-2 | **Date Sampled:** | 05/04/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/05/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | UV98157.D | 1 | 05/12/12 | XPL | n/a | n/a | GUV3869 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 79% | | 68-114% |

(a) (pH= 11Sample pH did not satisfy field preservation criteria.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-450 BNR | | |
| **Lab Sample ID:** | JB5843-2 | **Date Sampled:** | 05/04/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/05/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Z23643.D | 1 | 05/11/12 | CS | 05/08/12 | OP56816 | G2Z976 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | 0.122 | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 72% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 68% | | 32-138% |
| 438-22-2 | 5a-Androstane | 72% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-08S | | |
| **Lab Sample ID:** | JB5843-3 | **Date Sampled:** | 05/04/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/05/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2C95446.D | 1 | 05/10/12 | DR | n/a | n/a | V2C4359 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.21 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | ND | 5.0 | 0.25 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.19 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-08S | | |
| **Lab Sample ID:** | JB5843-3 | **Date Sampled:** | 05/04/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/05/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 15.8 | 1.0 | 0.18 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | ND | 5.0 | 0.68 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | ND | 25 | 1.9 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 5.0 | 0.33 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.32 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.21 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 0.23 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.17 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 95% | | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-08S | | |
| **Lab Sample ID:** | JB5843-3 | **Date Sampled:** | 05/04/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/05/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 93% | | 70-127% |
| 2037-26-5 | Toluene-D8 | 100% | | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 92% | | 76-118% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-08S | | |
| **Lab Sample ID:** | JB5843-3 | **Date Sampled:** | 05/04/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/05/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV98153.D | 1 | 05/12/12 | XPL | n/a | n/a | GUV3869 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 81% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-MW-08S | | |
| **Lab Sample ID:** | JB5843-3 | **Date Sampled:** | 05/04/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/05/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Z23644.D | 1 | 05/11/12 | CS | 05/08/12 | OP56816 | G2Z976 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 83% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 73% | | 32-138% |
| 438-22-2 | 5a-Androstane | 83% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-RW-01 | | |
| **Lab Sample ID:** | JB5843-4 | **Date Sampled:** | 05/04/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/05/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2C95450.D | 1 | 05/10/12 | DR | n/a | n/a | V2C4359 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | 0.27 | 1.0 | 0.22 | ug/l | J |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.21 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | ND | 5.0 | 0.25 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.19 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-RW-01 | | |
| **Lab Sample ID:** | JB5843-4 | **Date Sampled:** | 05/04/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/05/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | 0.35 | 1.0 | 0.21 | ug/l | J |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.18 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | 2.7 | 5.0 | 0.68 | ug/l | J |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | ND | 25 | 1.9 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 5.0 | 0.33 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.32 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.21 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 3.0 | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 2.2 | 2.0 | 0.23 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | 2.4 | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | 5.4 | 1.0 | 0.17 | ug/l | |
| 1330-20-7 | Xylene (total) | 7.8 | 1.0 | 0.17 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 97% | | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-RW-01 | | |
| **Lab Sample ID:** | JB5843-4 | **Date Sampled:** | 05/04/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/05/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 97% | | 70-127% |
| 2037-26-5 | Toluene-D8 | 104% | | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 92% | | 76-118% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-RW-01 | | |
| **Lab Sample ID:** | JB5843-4 | **Date Sampled:** | 05/04/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/05/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV98154.D | 1 | 05/12/12 | XPL | n/a | n/a | GUV3869 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 81% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-RW-01 | | |
| **Lab Sample ID:** | JB5843-4 | **Date Sampled:** | 05/04/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/05/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Z23651.D | 1 | 05/11/12 | CS | 05/08/12 | OP56816 | G2Z977 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | 0.150 | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 87% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 80% | | 32-138% |
| 438-22-2 | 5a-Androstane | 89% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-RW-03 | | |
| **Lab Sample ID:** | JB5843-5 | **Date Sampled:** | 05/04/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/05/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2C95447.D | 1 | 05/10/12 | DR | n/a | n/a | V2C4359 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | 2.0 | 1.0 | 0.22 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.21 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | 1.8 | 5.0 | 0.25 | ug/l | J |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.19 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-RW-03 | | |
| **Lab Sample ID:** | JB5843-5 | **Date Sampled:** | 05/04/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/05/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 1.1 | 1.0 | 0.18 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | ND | 5.0 | 0.68 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | ND | 25 | 1.9 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 5.0 | 0.33 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.32 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.21 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 0.23 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.17 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 96% | | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-RW-03 | | |
| **Lab Sample ID:** | JB5843-5 | **Date Sampled:** | 05/04/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/05/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 96% | | 70-127% |
| 2037-26-5 | Toluene-D8 | 100% | | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 93% | | 76-118% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-RW-03 | | |
| **Lab Sample ID:** | JB5843-5 | **Date Sampled:** | 05/04/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/05/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV98155.D | 1 | 05/12/12 | XPL | n/a | n/a | GUV3869 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 81% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-RW-03 | | |
| **Lab Sample ID:** | JB5843-5 | **Date Sampled:** | 05/04/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/05/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Z23652.D | 1 | 05/11/12 | CS | 05/08/12 | OP56816 | G2Z977 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 900 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.11 | 0.0039 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 85% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 79% | | 32-138% |
| 438-22-2 | 5a-Androstane | 89% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-TF-01 | | |
| **Lab Sample ID:** | JB5843-6 | **Date Sampled:** | 05/04/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/05/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2C95448.D | 1 | 05/10/12 | DR | n/a | n/a | V2C4359 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | 81.9 | 1.0 | 0.22 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.21 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | 6.6 | 5.0 | 0.25 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.19 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-TF-01 | | |
| **Lab Sample ID:** | JB5843-6 | **Date Sampled:** | 05/04/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/05/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | 0.27 | 1.0 | 0.21 | ug/l | J |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 5.5 | 1.0 | 0.18 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | ND | 5.0 | 0.68 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | ND | 25 | 1.9 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 5.0 | 0.33 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.32 | ug/l | |
| 108-88-3 | Toluene | 43.1 | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.21 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.28 | 2.0 | 0.18 | ug/l | J |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.26 | 2.0 | 0.23 | ug/l | J |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | 4.4 | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | 7.4 | 1.0 | 0.17 | ug/l | |
| 1330-20-7 | Xylene (total) | 11.8 | 1.0 | 0.17 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 96% | | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-TF-01 | | |
| **Lab Sample ID:** | JB5843-6 | **Date Sampled:** | 05/04/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/05/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 95% | | 70-127% |
| 2037-26-5 | Toluene-D8 | 101% | | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 94% | | 76-118% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-TF-01 | | |
| **Lab Sample ID:** | JB5843-6 | **Date Sampled:** | 05/04/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/05/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV98158.D | 1 | 05/12/12 | XPL | n/a | n/a | GUV3869 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 0.218 | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 80% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-TF-01 | | |
| **Lab Sample ID:** | JB5843-6 | **Date Sampled:** | 05/04/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/05/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Z23653.D | 1 | 05/11/12 | CS | 05/08/12 | OP56816 | G2Z977 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | 0.328 | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 75% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 71% | | 32-138% |
| 438-22-2 | 5a-Androstane | 79% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-TF-02 | | |
| **Lab Sample ID:** | JB5843-7 | **Date Sampled:** | 05/04/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/05/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2C95449.D | 1 | 05/10/12 | DR | n/a | n/a | V2C4359 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | 4.8 | 1.0 | 0.22 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.21 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | 15.9 | 5.0 | 0.25 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.19 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-TF-02 | | |
| **Lab Sample ID:** | JB5843-7 | **Date Sampled:** | 05/04/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/05/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 9.4 | 1.0 | 0.18 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | ND | 5.0 | 0.68 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | 198 | 25 | 1.9 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | 1.2 | 5.0 | 0.33 | ug/l | J |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.32 | ug/l | |
| 108-88-3 | Toluene | 3.3 | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.21 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.84 | 2.0 | 0.23 | ug/l | J |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | 5.2 | 1.0 | 0.17 | ug/l | |
| 1330-20-7 | Xylene (total) | 5.5 | 1.0 | 0.17 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 98% | | 77-120% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-TF-02 | | |
| **Lab Sample ID:** | JB5843-7 | **Date Sampled:** | 05/04/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/05/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 96% | | 70-127% |
| 2037-26-5 | Toluene-D8 | 101% | | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 93% | | 76-118% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-TF-02 | | |
| **Lab Sample ID:** | JB5843-7 | **Date Sampled:** | 05/04/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/05/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV98159.D | 1 | 05/12/12 | XPL | n/a | n/a | GUV3869 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 79% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-TF-02 | | |
| **Lab Sample ID:** | JB5843-7 | **Date Sampled:** | 05/04/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/05/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Z23654.D | 1 | 05/11/12 | CS | 05/08/12 | OP56816 | G2Z977 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 925 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | 0.499 | 0.11 | 0.0038 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 84% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 77% | | 32-138% |
| 438-22-2 | 5a-Androstane | 87% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey

4

# Misc. Forms

## Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

GW

# Shell Oil Products Chain Of Custody Record

URS

**LAB (LOCATION)**
- [x] ACCUTEST ( )
- [ ] CALSCIENCE ( )
- [ ] TESTAMERICA ( )
- [ ] Other ( )

Lab Vendor # 1813640 (Accutest)

**Please Check Appropriate Box:**
- [x] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [ ] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER

Print Bill To Contact Name: Adriane Rogers

INCIDENT # (ENV SERVICES): 9 7 4 3 6 9 7 7

PO #

SAP #: 1 3 7 6 7 5

[ ] CHECK IF NO INCIDENT # APPLIES

DATE: 5-4-12

Page 1 of 3

SAMPLING COMPANY: URS CORPORATION

LOG CODE:

ADDRESS: 12420 Milestone Center Drive Suite 150, Germantown, MD 20876

PROJECT CONTACT (Hardcopy or PDF Report to): Adriane Rogers

TELEPHONE: 301-820-3000 | FAX: 301-820-3409 | Bill To Contact E-MAIL: adriane.rogers@urs.com

SITE ADDRESS: Street and City: 15541 New Hampshire Avenue, Silver Spring | State: MD | GLOBAL ID NO.:

EDF DELIVERABLE TO (Name, Company, Office Location): Adriane Rogers | PHONE NO.: 301-820-3241 | E-MAIL: adriane.rogers@urs.com | CONSULTANT PROJECT NO.: 137675

SAMPLER NAME(S) (Print): Robert Brown

LAB USE ONLY: JB5843

TURNAROUND TIME (CALENDAR DAYS):
- [x] STANDARD (14 DAY)
- [ ] 5 DAYS
- [ ] 3 DAYS
- [ ] 2 DAYS
- [ ] 24 HOURS
- [ ] RESULTS NEEDED ON WEEKEND

- [ ] LA - RWQCB REPORT FORMAT
- [ ] UST AGENCY:

DELIVERABLES:
- [ ] LEVEL 1
- [x] LEVEL 2
- [ ] LEVEL 3
- [ ] LEVEL 4
- [ ] OTHER (SPECIFY)

TEMPERATURE ON RECEIPT C°: Cooler #1 1.0° C3 | Cooler #2 1.0° C2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :

Seq# 672, 674 Extract

- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [ ] RECEIPT VERIFICATION REQUESTED
- [ ] PROVIDE LEDD DISK

REQUESTED ANALYSIS

| LAB USE ONLY | Field Sample Identification | SAMPLING DATE | SAMPLING TIME | MATRIX | PRESERVATIVE HCL | HNO3 | H2SO4 | NONE | OTHER | NO. OF CONT. | BTEX, MTBE, Oxy 5 (8260B) Full list | TPH-GRO | TPH-DRO-SGC | UNIT COST | NON-UNIT COST | FIELD NOTES: Container PID Readings or Laboratory Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -1 | 137675 - 750 BND | 5-4-12 | 0700 | GW | X | | | | | 7 | X | X | X | | | 48F |
| -2 | 137675 - 750 BNR | 5-4-12 | 0700 | GW | X | | | | | 7 | X | X | X | | | 48G |
| | 137675 - 750 BNS | | | GW | X | | | | | 3 | X | | | | | 2199A |
| | 137675 - 730 BND | | | GW | X | | | | | 3 | X | | | | | |
| | 137675 - 730 BNS | | | GW | X | | | | | 3 | X | | | | | |
| | 137675 - MW-02 | | | GW | X | | | | | 3 | X | | | | | |
| | 137675 - MW-04 | | | GW | X | | | | | 3 | X | | | | | |
| | 137675 - MW-05D | | | GW | X | | | | | 3 | X | | | | | |
| | 137675 - MW-05R | | | GW | X | | | | | 3 | X | | | | | |
| | 137675 - MW-05S | | | GW | X | | | | | 3 | X | | | | | |

FIELD NOTES: TEMPERATURE ON RECEIPT C°

| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
|---|---|---|---|
| | FedEx | | |
| FedEx | | | |
| | | 5/5/12 | 1030 |

05/2/06 Revision

ALL SAMPLES RECEIVED IN PRESERVED AS APPLICABLE

**JB5843: Chain of Custody**
**Page 1 of 4**

# Shell Oil Products Chain Of Custody Record

URS

LAB (LOCATION)
- [x] ACCUTEST ( )
- [ ] CALSCIENCE ( )
- [ ] TESTAMERICA ( )
- [ ] Other ( )

Lab Vendor # 1813640 (Accutest)

Please Check Appropriate Box:
- [x] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [ ] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER

Print Bill To Contact Name: Adriane Rogers

PO #

INCIDENT # (ENV SERVICES): 9 7 4 3 6 9 7 7

SAP #: 1 3 7 6 7 5

[ ] CHECK IF NO INCIDENT # APPLIES

DATE: 5-4-12

Page 2 of 3

SAMPLING COMPANY: URS CORPORATION

LOG CODE:

SITE ADDRESS: Street and City: 15541 New Hampshire Avenue, Silver Spring

State: MD

GLOBAL ID NO.:

ADDRESS: 12420 Milestone Center Drive Suite 150, Germantown, MD 20876

EDF DELIVERABLE TO (Name, Company, Office Location): Adriane Rogers

PHONE NO.: 301-820-3241

E-MAIL: adriane.rogers@urs.com

CONSULTANT PROJECT NO.: 137675

PROJECT CONTACT (Hardcopy or PDF Report to): Adriane Rogers

TELEPHONE: 301-820-3000

FAX: 301-820-3409

Bill To Contact E-MAIL: adriane.rogers@urs.com

SAMPLER NAME(S) (Print): Robert Burns

LAB USE ONLY: JB5843

TURNAROUND TIME (CALENDAR DAYS):
- [x] STANDARD (14 DAY)
- [ ] 5 DAYS
- [ ] 3 DAYS
- [ ] 2 DAYS
- [ ] 24 HOURS
- [ ] RESULTS NEEDED ON WEEKEND

- [ ] LA - RWQCB REPORT FORMAT
- [ ] UST AGENCY:

DELIVERABLES:
- [ ] LEVEL 1
- [x] LEVEL 2
- [ ] LEVEL 3
- [ ] LEVEL 4
- [ ] OTHER (SPECIFY)

TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [ ] RECEIPT VERIFICATION REQUESTED
- [ ] PROVIDE LEDD DISK

REQUESTED ANALYSIS

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

Container PID Readings or Laboratory Notes

| LAB USE ONLY | Field Sample Identification | SAMPLING DATE | SAMPLING TIME | MATRIX | HCL | HNO3 | H2SO4 | NONE | OTHER | NO. OF CONT. | BTEX, MTBE, Oxy 5 (8260B) | Full List | TPH-GRO | TPH-DRO RGO | UNIT COST | NON-UNIT COST |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 137675 - MW-06D | | | GW | X | | | | | 3 | X | | | | | |
| | 137675 - MW-06R | | | GW | X | | | | | 3 | X | | | | | |
| | 137675 - MW-06S | | | GW | X | | | | | 3 | X | | | | | |
| | 137675 - MW-07D | | | GW | X | | | | | 3 | X | | | | | |
| | 137675 - MW-07S | | | GW | X | | | | | 3 | X | | | | | |
| | 137675 - MW-08D | | | GW | X | | | | | 3 | X | | | | | |
| -3 | 137675 - MW-08S | 5-4-12 | 0730 | GW | X | | | | | 7 | X | X | X | | | |
| | 137675 - MW-09D | | | GW | X | | | | | 3 | X | | | | | |
| | ~~137675 - MW-09S~~ | | | GW | X | | | | | 3 | X | | | | | |
| | ~~137675 - MW-11D~~ | | | GW | X | | | | | 3 | X | | | | | |

| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
|---|---|---|---|
| | FED EX | | |
| FED EX | | 5/5/12 | 1030 |
| | | | |

05/2/06 Revision

**JB5843: Chain of Custody**
**Page 2 of 4**

# Shell Oil Products Chain Of Custody Record

URS

LAB (LOCATION)
- [x] ACCUTEST ( )
- [ ] CALSCIENCE ( )
- [ ] TESTAMERICA ( )
- [ ] Other ( )

Lab Vendor # 1813640 (Accutest)

Please Check Appropriate Box:
- [x] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [ ] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER

Print Bill To Contact Name: Adriane Rogers

INCIDENT # (ENV SERVICES): 9 7 4 3 6 9 7 7

[ ] CHECK IF NO INCIDENT # APPLIES

DATE: 5-4-12

PO #

SAP # 1 3 7 6 7 5

Page 6 of 8 3 of 3

SAMPLING COMPANY: URS CORPORATION

LOG CODE:

SITE ADDRESS: Street and City: 15541 New Hampshire Avenue, Silver Spring

State: MD

GLOBAL ID NO.:

ADDRESS: 12420 Milestone Center Drive Suite 150, Germantown, MD 20876

EDF DELIVERABLE TO (Name, Company, Office Location): Adriane Rogers

PHONE NO.: 301-820-3241

E-MAIL: adriane.rogers@urs.com

CONSULTANT PROJECT NO.: 137675

PROJECT CONTACT (Hardcopy or PDF Report to): Adriane Rogers

TELEPHONE: 301-820-3000

FAX: 301-820-3409

Bill To Contact E-MAIL: adriane.rogers@urs.com

SAMPLER NAME(S) (Print): Robert Burns

LAB USE ONLY: JB5843

TURNAROUND TIME (CALENDAR DAYS):
- [x] STANDARD (14 DAY)
- [ ] 5 DAYS
- [ ] 3 DAYS
- [ ] 2 DAYS
- [ ] 24 HOURS
- [ ] RESULTS NEEDED ON WEEKEND

- [ ] LA - RWQCB REPORT FORMAT
- [ ] UST AGENCY:

DELIVERABLES:
- [ ] LEVEL 1
- [x] LEVEL 2
- [ ] LEVEL 3
- [ ] LEVEL 4
- [ ] OTHER (SPECIFY)

TEMPERATURE ON RECEIPT C*: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [ ] RECEIPT VERIFICATION REQUESTED
- [ ] PROVIDE EEDD DISK

REQUESTED ANALYSIS

FIELD NOTES:

TEMPERATURE ON RECEIPT C*

Container PID Readings or Laboratory Notes

| LAB USE ONLY | Field Sample Identification | SAMPLING DATE | SAMPLING TIME | MATRIX | PRESERVATIVE HCL | HNO3 | H2SO4 | NONE | OTHER | NO. OF CONT. | BTEX, MTBE, Oxy 5 (8260B) | TPH GRO | TPH DRO-ext |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 137675 - MW-26D | | | GW | X | | | | | 3 | X | | |
| -4 | 137675 - RW-01 | 5-4-12 | 0928 | GW | X | | | | | 7 | X | X | X |
| -5 | 137675 - RW-03 | 5-4-12 | 0915 | GW | X | | | | | 7 | X | X | X |
| | 137675 - RW-10 | | | GW | X | | | | | 3 | X | | |
| | 137675 - RW-19 | | | GW | X | | | | | 3 | X | | |
| | 137675 - RW-20 | | | GW | X | | | | | 3 | X | | |
| | 137675 - RW-21 | | | GW | X | | | | | 3 | X | | |
| | 137675 - RW-22 | | | GW | X | | | | | 3 | X | | |
| | 137675 - RW-23 | | | GW | X | | | | | 3 | X | | |
| -6 | 137675 - TF-01 | 5-4-12 | 0955 | GW | X | | | | | 7 | X | X | X |
| -7 | 137675 - TF-02 | 5-4-12 | 0930 | GW | X | | | | | 7 | X | X | X |

| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
|---|---|---|---|
| | FED EX | | |
| FED EX | | 5/5/12 | 1030 |
| | | | |

05/2/06 Revision

**JB5843: Chain of Custody**
**Page 3 of 4**

# Accutest Laboratories Sample Receipt Summary

**Accutest Job Number:** JB5843 **Client:** **Project:**

**Date / Time Received:** 5/5/2012 **Delivery Method:** **Airbill #'s:**

**Cooler Temps (Initial/Adjusted):** #1: (1/1); #2: (1/1); 0

| Cooler Security | Y | or | N |
|---|---|---|---|
| 1. Custody Seals Present: | ☑ | | ☐ |
| 2. Custody Seals Intact: | ☑ | | ☐ |
| 3. COC Present: | ☑ | | ☐ |
| 4. Smpl Dates/Time OK | ☑ | | ☐ |

| Cooler Temperature | Y | or | N |
|---|---|---|---|
| 1. Temp criteria achieved: | ☑ | | ☐ |
| 2. Cooler temp verification: | Bar Therm | | |
| 3. Cooler media: | Ice (Bag) | | |
| 4. No. Coolers: | 2 | | |

| Quality Control Preservation | Y | or | N | N/A |
|---|---|---|---|---|
| 1. Trip Blank present / cooler: | ☐ | | ☑ | ☐ |
| 2. Trip Blank listed on COC: | ☐ | | ☑ | ☐ |
| 3. Samples preserved properly: | ☑ | | ☐ | |
| 4. VOCs headspace free: | ☑ | | ☐ | ☐ |

| Sample Integrity - Documentation | Y | or | N |
|---|---|---|---|
| 1. Sample labels present on bottles: | ☑ | | ☐ |
| 2. Container labeling complete: | ☑ | | ☐ |
| 3. Sample container label / COC agree: | ☑ | | ☐ |

| Sample Integrity - Condition | Y | or | N |
|---|---|---|---|
| 1. Sample recvd within HT: | ☑ | | ☐ |
| 2. All containers accounted for: | ☑ | | ☐ |
| 3. Condition of sample: | Intact | | |

| Sample Integrity - Instructions | Y | or | N | N/A |
|---|---|---|---|---|
| 1. Analysis requested is clear: | ☑ | | ☐ | |
| 2. Bottles received for unspecified tests | ☐ | | ☑ | |
| 3. Sufficient volume recvd for analysis: | ☑ | | ☐ | |
| 4. Compositing instructions clear: | ☐ | | ☐ | ☑ |
| 5. Filtering instructions clear: | ☐ | | ☐ | ☑ |

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com



**JB5843: Chain of Custody**
**Page 4 of 4**

New Jersey
ACCUTEST LABORATORIES



# GC/MS Volatiles

## QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

# Method Blank Summary



**Job Number:** JB5843
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2C4359-MB | 2C95443.D | 1 | 05/10/12 | DR | n/a | n/a | V2C4359 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5843-1, JB5843-3, JB5843-4, JB5843-5, JB5843-6, JB5843-7

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.21 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | ND | 5.0 | 0.25 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.19 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |

# Method Blank Summary



**Job Number:** JB5843
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2C4359-MB | 2C95443.D | 1 | 05/10/12 | DR | n/a | n/a | V2C4359 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5843-1, JB5843-3, JB5843-4, JB5843-5, JB5843-6, JB5843-7

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.18 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | ND | 5.0 | 0.68 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | ND | 25 | 1.9 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 5.0 | 0.33 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.32 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.21 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 0.23 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.17 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

# Method Blank Summary



**Job Number:** JB5843
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2C4359-MB | 2C95443.D | 1 | 05/10/12 | DR | n/a | n/a | V2C4359 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5843-1, JB5843-3, JB5843-4, JB5843-5, JB5843-6, JB5843-7

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 96% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 92% | 70-127% |
| 2037-26-5 | Toluene-D8 | 102% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 90% | 76-118% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---|---|---|---|---|---|
| | Total TIC, Volatile | | 0 | ug/l | |

# Method Blank Summary



**Job Number:** JB5843
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2B4317-MB | 2B95642.D | 1 | 05/11/12 | DR | n/a | n/a | V2B4317 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5843-2

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.18 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.40 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.23 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 0.24 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 0.31 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.9 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.33 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.20 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.24 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.19 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.22 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.37 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.21 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.22 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.19 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | ND | 5.0 | 0.25 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.20 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.21 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.18 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.29 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.26 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.31 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.19 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.28 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.22 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.31 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.22 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.19 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.26 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.36 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.22 | ug/l | |

# Method Blank Summary



**Job Number:** JB5843
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2B4317-MB | 2B95642.D | 1 | 05/11/12 | DR | n/a | n/a | V2B4317 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5843-2

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.19 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.23 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 0.19 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.19 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.18 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.2 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.46 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | ND | 5.0 | 0.68 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.17 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 0.23 | ug/l | |
| 75-65-0 | Tert Butyl Alcohol | ND | 25 | 1.9 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 5.0 | 0.33 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.20 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.20 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.32 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.69 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.15 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.24 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.23 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.21 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.35 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 0.54 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.18 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 0.23 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.27 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.32 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.17 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

# Method Blank Summary



**Job Number:** JB5843
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2B4317-MB | 2B95642.D | 1 | 05/11/12 | DR | n/a | n/a | V2B4317 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5843-2

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 112% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 112% | 70-127% |
| 2037-26-5 | Toluene-D8 | 111% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 101% | 76-118% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---|---|---|---|---|---|
| | Total TIC, Volatile | | 0 | ug/l | |

# Blank Spike Summary



**Job Number:** JB5843
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2C4359-BS | 2C95444.D | 1 | 05/10/12 | DR | n/a | n/a | V2C4359 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5843-1, JB5843-3, JB5843-4, JB5843-5, JB5843-6, JB5843-7

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | 50 | 29.9 | 60 | 49-142 |
| 71-43-2 | Benzene | 50 | 49.6 | 99 | 76-119 |
| 108-86-1 | Bromobenzene | 50 | 45.7 | 91 | 77-123 |
| 74-97-5 | Bromochloromethane | 50 | 46.8 | 94 | 77-129 |
| 75-27-4 | Bromodichloromethane | 50 | 48.1 | 96 | 81-133 |
| 75-25-2 | Bromoform | 50 | 42.9 | 86 | 72-139 |
| 74-83-9 | Bromomethane | 50 | 49.6 | 99 | 55-140 |
| 78-93-3 | 2-Butanone (MEK) | 50 | 40.3 | 81 | 64-132 |
| 104-51-8 | n-Butylbenzene | 50 | 53.1 | 106 | 74-130 |
| 135-98-8 | sec-Butylbenzene | 50 | 50.4 | 101 | 75-125 |
| 98-06-6 | tert-Butylbenzene | 50 | 48.9 | 98 | 76-127 |
| 56-23-5 | Carbon tetrachloride | 50 | 48.9 | 98 | 74-146 |
| 108-90-7 | Chlorobenzene | 50 | 45.9 | 92 | 79-120 |
| 75-00-3 | Chloroethane | 50 | 43.9 | 88 | 60-134 |
| 67-66-3 | Chloroform | 50 | 51.7 | 103 | 77-127 |
| 74-87-3 | Chloromethane | 50 | 39.2 | 78 | 50-128 |
| 95-49-8 | o-Chlorotoluene | 50 | 48.0 | 96 | 78-124 |
| 106-43-4 | p-Chlorotoluene | 50 | 46.8 | 94 | 75-120 |
| 108-20-3 | Di-Isopropyl ether | 50 | 54.1 | 108 | 59-130 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 50 | 37.4 | 75 | 64-137 |
| 124-48-1 | Dibromochloromethane | 50 | 42.5 | 85 | 77-131 |
| 106-93-4 | 1,2-Dibromoethane | 50 | 42.8 | 86 | 76-127 |
| 95-50-1 | 1,2-Dichlorobenzene | 50 | 45.1 | 90 | 78-123 |
| 541-73-1 | 1,3-Dichlorobenzene | 50 | 47.0 | 94 | 77-124 |
| 106-46-7 | 1,4-Dichlorobenzene | 50 | 45.9 | 92 | 76-121 |
| 75-71-8 | Dichlorodifluoromethane | 50 | 25.1 | 50 | 41-138 |
| 75-34-3 | 1,1-Dichloroethane | 50 | 54.2 | 108 | 74-124 |
| 107-06-2 | 1,2-Dichloroethane | 50 | 45.6 | 91 | 71-138 |
| 75-35-4 | 1,1-Dichloroethene | 50 | 51.7 | 103 | 68-126 |
| 156-59-2 | cis-1,2-Dichloroethene | 50 | 50.2 | 100 | 78-131 |
| 156-60-5 | trans-1,2-Dichloroethene | 50 | 51.0 | 102 | 64-119 |
| 78-87-5 | 1,2-Dichloropropane | 50 | 51.4 | 103 | 76-121 |
| 142-28-9 | 1,3-Dichloropropane | 50 | 44.0 | 88 | 77-120 |
| 594-20-7 | 2,2-Dichloropropane | 50 | 52.3 | 105 | 53-143 |
| 563-58-6 | 1,1-Dichloropropene | 50 | 50.8 | 102 | 77-125 |
| 10061-01-5 | cis-1,3-Dichloropropene | 50 | 46.2 | 92 | 76-123 |

# Blank Spike Summary



**Job Number:** JB5843
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2C4359-BS | 2C95444.D | 1 | 05/10/12 | DR | n/a | n/a | V2C4359 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5843-1, JB5843-3, JB5843-4, JB5843-5, JB5843-6, JB5843-7

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 10061-02-6 | trans-1,3-Dichloropropene | 50 | 48.6 | 97 | 74-129 |
| 100-41-4 | Ethylbenzene | 50 | 48.8 | 98 | 77-119 |
| 87-68-3 | Hexachlorobutadiene | 50 | 46.7 | 93 | 66-137 |
| 98-82-8 | Isopropylbenzene | 50 | 48.8 | 98 | 74-125 |
| 99-87-6 | p-Isopropyltoluene | 50 | 51.0 | 102 | 78-128 |
| 1634-04-4 | Methyl Tert Butyl Ether | 100 | 92.6 | 93 | 72-125 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | 50 | 42.7 | 85 | 68-131 |
| 74-95-3 | Methylene bromide | 50 | 47.7 | 95 | 79-129 |
| 75-09-2 | Methylene chloride | 50 | 47.7 | 95 | 73-122 |
| 91-20-3 | Naphthalene | 50 | 40.5 | 81 | 61-136 |
| 103-65-1 | n-Propylbenzene | 50 | 51.4 | 103 | 73-121 |
| 100-42-5 | Styrene | 50 | 51.1 | 102 | 77-121 |
| 75-65-0 | Tert Butyl Alcohol | 250 | 267 | 107 | 67-136 |
| 994-05-8 | tert-Amyl Methyl Ether | 50 | 46.7 | 93 | 69-125 |
| 637-92-3 | tert-Butyl Ethyl Ether | 50 | 49.6 | 99 | 67-129 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 50 | 46.3 | 93 | 80-128 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 50 | 39.9 | 80 | 70-121 |
| 127-18-4 | Tetrachloroethene | 50 | 47.6 | 95 | 64-148 |
| 108-88-3 | Toluene | 50 | 49.6 | 99 | 77-122 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 50 | 43.3 | 87 | 69-136 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 50 | 47.3 | 95 | 73-133 |
| 71-55-6 | 1,1,1-Trichloroethane | 50 | 51.5 | 103 | 76-135 |
| 79-00-5 | 1,1,2-Trichloroethane | 50 | 48.1 | 96 | 79-125 |
| 79-01-6 | Trichloroethene | 50 | 51.3 | 103 | 80-129 |
| 75-69-4 | Trichlorofluoromethane | 50 | 44.0 | 88 | 66-145 |
| 96-18-4 | 1,2,3-Trichloropropane | 50 | 42.7 | 85 | 72-130 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 50 | 49.1 | 98 | 77-123 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 50 | 48.5 | 97 | 76-123 |
| 75-01-4 | Vinyl chloride | 50 | 45.6 | 91 | 56-133 |
| | m,p-Xylene | 100 | 95.6 | 96 | 77-121 |
| 95-47-6 | o-Xylene | 50 | 49.8 | 100 | 80-124 |
| 1330-20-7 | Xylene (total) | 150 | 145 | 97 | 78-121 |

# Blank Spike Summary



**Job Number:** JB5843
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2C4359-BS | 2C95444.D | 1 | 05/10/12 | DR | n/a | n/a | V2C4359 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5843-1, JB5843-3, JB5843-4, JB5843-5, JB5843-6, JB5843-7

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 98% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 94% | 70-127% |
| 2037-26-5 | Toluene-D8 | 102% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 89% | 76-118% |

# Blank Spike Summary



**Job Number:** JB5843
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2B4317-BS | 2B95643.D | 1 | 05/11/12 | DR | n/a | n/a | V2B4317 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5843-2

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | 50 | 63.1 | 126 | 49-142 |
| 71-43-2 | Benzene | 50 | 54.7 | 109 | 76-119 |
| 108-86-1 | Bromobenzene | 50 | 51.3 | 103 | 77-123 |
| 74-97-5 | Bromochloromethane | 50 | 55.4 | 111 | 77-129 |
| 75-27-4 | Bromodichloromethane | 50 | 53.6 | 107 | 81-133 |
| 75-25-2 | Bromoform | 50 | 49.7 | 99 | 72-139 |
| 74-83-9 | Bromomethane | 50 | 50.4 | 101 | 55-140 |
| 78-93-3 | 2-Butanone (MEK) | 50 | 57.7 | 115 | 64-132 |
| 104-51-8 | n-Butylbenzene | 50 | 57.4 | 115 | 74-130 |
| 135-98-8 | sec-Butylbenzene | 50 | 55.0 | 110 | 75-125 |
| 98-06-6 | tert-Butylbenzene | 50 | 55.1 | 110 | 76-127 |
| 56-23-5 | Carbon tetrachloride | 50 | 54.7 | 109 | 74-146 |
| 108-90-7 | Chlorobenzene | 50 | 51.8 | 104 | 79-120 |
| 75-00-3 | Chloroethane | 50 | 56.6 | 113 | 60-134 |
| 67-66-3 | Chloroform | 50 | 57.3 | 115 | 77-127 |
| 74-87-3 | Chloromethane | 50 | 54.7 | 109 | 50-128 |
| 95-49-8 | o-Chlorotoluene | 50 | 52.7 | 105 | 78-124 |
| 106-43-4 | p-Chlorotoluene | 50 | 51.2 | 102 | 75-120 |
| 108-20-3 | Di-Isopropyl ether | 50 | 58.1 | 116 | 59-130 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 50 | 52.1 | 104 | 64-137 |
| 124-48-1 | Dibromochloromethane | 50 | 50.5 | 101 | 77-131 |
| 106-93-4 | 1,2-Dibromoethane | 50 | 51.6 | 103 | 76-127 |
| 95-50-1 | 1,2-Dichlorobenzene | 50 | 50.8 | 102 | 78-123 |
| 541-73-1 | 1,3-Dichlorobenzene | 50 | 51.0 | 102 | 77-124 |
| 106-46-7 | 1,4-Dichlorobenzene | 50 | 50.0 | 100 | 76-121 |
| 75-71-8 | Dichlorodifluoromethane | 50 | 45.7 | 91 | 41-138 |
| 75-34-3 | 1,1-Dichloroethane | 50 | 59.4 | 119 | 74-124 |
| 107-06-2 | 1,2-Dichloroethane | 50 | 52.6 | 105 | 71-138 |
| 75-35-4 | 1,1-Dichloroethene | 50 | 58.3 | 117 | 68-126 |
| 156-59-2 | cis-1,2-Dichloroethene | 50 | 55.5 | 111 | 78-131 |
| 156-60-5 | trans-1,2-Dichloroethene | 50 | 55.6 | 111 | 64-119 |
| 78-87-5 | 1,2-Dichloropropane | 50 | 56.4 | 113 | 76-121 |
| 142-28-9 | 1,3-Dichloropropane | 50 | 52.7 | 105 | 77-120 |
| 594-20-7 | 2,2-Dichloropropane | 50 | 57.3 | 115 | 53-143 |
| 563-58-6 | 1,1-Dichloropropene | 50 | 54.9 | 110 | 77-125 |
| 10061-01-5 | cis-1,3-Dichloropropene | 50 | 52.6 | 105 | 76-123 |

# Blank Spike Summary

**Job Number:** JB5843
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2B4317-BS | 2B95643.D | 1 | 05/11/12 | DR | n/a | n/a | V2B4317 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5843-2

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 10061-02-6 | trans-1,3-Dichloropropene | 50 | 53.4 | 107 | 74-129 |
| 100-41-4 | Ethylbenzene | 50 | 52.0 | 104 | 77-119 |
| 87-68-3 | Hexachlorobutadiene | 50 | 52.7 | 105 | 66-137 |
| 98-82-8 | Isopropylbenzene | 50 | 54.1 | 108 | 74-125 |
| 99-87-6 | p-Isopropyltoluene | 50 | 56.6 | 113 | 78-128 |
| 1634-04-4 | Methyl Tert Butyl Ether | 100 | 109 | 109 | 72-125 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | 50 | 55.1 | 110 | 68-131 |
| 74-95-3 | Methylene bromide | 50 | 54.8 | 110 | 79-129 |
| 75-09-2 | Methylene chloride | 50 | 55.8 | 112 | 73-122 |
| 91-20-3 | Naphthalene | 50 | 54.6 | 109 | 61-136 |
| 103-65-1 | n-Propylbenzene | 50 | 55.7 | 111 | 73-121 |
| 100-42-5 | Styrene | 50 | 51.8 | 104 | 77-121 |
| 75-65-0 | Tert Butyl Alcohol | 250 | 290 | 116 | 67-136 |
| 994-05-8 | tert-Amyl Methyl Ether | 50 | 51.9 | 104 | 69-125 |
| 637-92-3 | tert-Butyl Ethyl Ether | 50 | 52.6 | 105 | 67-129 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 50 | 53.0 | 106 | 80-128 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 50 | 49.6 | 99 | 70-121 |
| 127-18-4 | Tetrachloroethene | 50 | 53.6 | 107 | 64-148 |
| 108-88-3 | Toluene | 50 | 53.4 | 107 | 77-122 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 50 | 53.7 | 107 | 69-136 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 50 | 56.3 | 113 | 73-133 |
| 71-55-6 | 1,1,1-Trichloroethane | 50 | 55.5 | 111 | 76-135 |
| 79-00-5 | 1,1,2-Trichloroethane | 50 | 54.0 | 108 | 79-125 |
| 79-01-6 | Trichloroethene | 50 | 56.0 | 112 | 80-129 |
| 75-69-4 | Trichlorofluoromethane | 50 | 54.9 | 110 | 66-145 |
| 96-18-4 | 1,2,3-Trichloropropane | 50 | 48.1 | 96 | 72-130 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 50 | 53.5 | 107 | 77-123 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 50 | 53.1 | 106 | 76-123 |
| 75-01-4 | Vinyl chloride | 50 | 55.9 | 112 | 56-133 |
| | m,p-Xylene | 100 | 104 | 104 | 77-121 |
| 95-47-6 | o-Xylene | 50 | 51.8 | 104 | 80-124 |
| 1330-20-7 | Xylene (total) | 150 | 156 | 104 | 78-121 |

# Blank Spike Summary



**Job Number:** JB5843
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2B4317-BS | 2B95643.D | 1 | 05/11/12 | DR | n/a | n/a | V2B4317 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5843-2

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 110% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 109% | 70-127% |
| 2037-26-5 | Toluene-D8 | 115% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 101% | 76-118% |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB5843
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5843-6MS | 2C95452.D | 1 | 05/10/12 | DR | n/a | n/a | V2C4359 |
| JB5843-6MSD | 2C95453.D | 1 | 05/10/12 | DR | n/a | n/a | V2C4359 |
| JB5843-6 | 2C95448.D | 1 | 05/10/12 | DR | n/a | n/a | V2C4359 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5843-1, JB5843-3, JB5843-4, JB5843-5, JB5843-6, JB5843-7

| CAS No. | Compound | JB5843-6 ug/l | Q | Spike ug/l | MS ug/l | MS % | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | | 50 | 25.9 | 52 | 26.7 | 53 | 3 | 39-150/20 |
| 71-43-2 | Benzene | 81.9 | | 50 | 99.1 | 34* [a] | 97.8 | 32* [a] | 1 | 40-139/12 |
| 108-86-1 | Bromobenzene | ND | | 50 | 36.6 | 73 | 36.7 | 73 | 0 | 67-131/12 |
| 74-97-5 | Bromochloromethane | ND | | 50 | 37.9 | 76 | 36.6 | 73 | 3 | 67-134/12 |
| 75-27-4 | Bromodichloromethane | ND | | 50 | 38.2 | 76 | 38.6 | 77 | 1 | 68-135/12 |
| 75-25-2 | Bromoform | ND | | 50 | 33.1 | 66 | 33.0 | 66 | 0 | 55-141/14 |
| 74-83-9 | Bromomethane | ND | | 50 | 56.7 | 113 | 55.3 | 111 | 3 | 49-145/16 |
| 78-93-3 | 2-Butanone (MEK) | ND | | 50 | 31.3 | 63 | 31.2 | 62 | 0 | 55-141/15 |
| 104-51-8 | n-Butylbenzene | ND | | 50 | 35.5 | 71 | 35.7 | 71 | 1 | 55-139/15 |
| 135-98-8 | sec-Butylbenzene | ND | | 50 | 35.2 | 70 | 35.3 | 71 | 0 | 55-137/14 |
| 98-06-6 | tert-Butylbenzene | ND | | 50 | 34.4 | 69 | 34.8 | 70 | 1 | 58-137/15 |
| 56-23-5 | Carbon tetrachloride | ND | | 50 | 32.5 | 65 | 31.6 | 63 | 3 | 52-155/16 |
| 108-90-7 | Chlorobenzene | ND | | 50 | 35.6 | 71 | 35.9 | 72 | 1 | 66-129/11 |
| 75-00-3 | Chloroethane | ND | | 50 | 49.1 | 98 | 47.5 | 95 | 3 | 50-140/16 |
| 67-66-3 | Chloroform | ND | | 50 | 39.5 | 79 | 38.4 | 77 | 3 | 63-133/13 |
| 74-87-3 | Chloromethane | ND | | 50 | 53.7 | 107 | 52.4 | 105 | 2 | 43-138/17 |
| 95-49-8 | o-Chlorotoluene | ND | | 50 | 37.3 | 75 | 37.1 | 74 | 1 | 62-132/13 |
| 106-43-4 | p-Chlorotoluene | ND | | 50 | 36.8 | 74 | 36.6 | 73 | 1 | 62-129/13 |
| 108-20-3 | Di-Isopropyl ether | 6.6 | | 50 | 59.9 | 107 | 58.6 | 104 | 2 | 51-136/11 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | | 50 | 27.0 | 54* [a] | 28.2 | 56* [a] | 4 | 57-142/14 |
| 124-48-1 | Dibromochloromethane | ND | | 50 | 34.2 | 68 | 34.6 | 69 | 1 | 64-136/12 |
| 106-93-4 | 1,2-Dibromoethane | ND | | 50 | 34.6 | 69 | 35.1 | 70 | 1 | 69-132/11 |
| 95-50-1 | 1,2-Dichlorobenzene | ND | | 50 | 34.7 | 69 | 34.7 | 69 | 0 | 69-129/11 |
| 541-73-1 | 1,3-Dichlorobenzene | ND | | 50 | 35.5 | 71 | 35.4 | 71 | 0 | 66-130/12 |
| 106-46-7 | 1,4-Dichlorobenzene | ND | | 50 | 35.1 | 70 | 35.2 | 70 | 0 | 66-127/12 |
| 75-71-8 | Dichlorodifluoromethane | ND | | 50 | 44.2 | 88 | 44.8 | 90 | 1 | 31-166/20 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 50 | 39.6 | 79 | 38.5 | 77 | 3 | 58-132/13 |
| 107-06-2 | 1,2-Dichloroethane | ND | | 50 | 37.5 | 75 | 37.4 | 75 | 0 | 62-145/12 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 50 | 30.5 | 61 | 29.6 | 59 | 3 | 43-142/17 |
| 156-59-2 | cis-1,2-Dichloroethene | ND | | 50 | 38.5 | 77 | 37.7 | 75 | 2 | 55-132/12 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 50 | 35.1 | 70 | 34.4 | 69 | 2 | 53-132/14 |
| 78-87-5 | 1,2-Dichloropropane | ND | | 50 | 40.6 | 81 | 40.6 | 81 | 0 | 65-128/12 |
| 142-28-9 | 1,3-Dichloropropane | ND | | 50 | 35.8 | 72 | 36.5 | 73 | 2 | 68-127/11 |
| 594-20-7 | 2,2-Dichloropropane | ND | | 50 | 37.9 | 76 | 36.6 | 73 | 3 | 41-146/16 |
| 563-58-6 | 1,1-Dichloropropene | ND | | 50 | 34.5 | 69 | 34.5 | 69 | 0 | 54-139/15 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 50 | 38.3 | 77 | 38.2 | 76 | 0 | 66-130/12 |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB5843
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5843-6MS | 2C95452.D | 1 | 05/10/12 | DR | n/a | n/a | V2C4359 |
| JB5843-6MSD | 2C95453.D | 1 | 05/10/12 | DR | n/a | n/a | V2C4359 |
| JB5843-6 | 2C95448.D | 1 | 05/10/12 | DR | n/a | n/a | V2C4359 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5843-1, JB5843-3, JB5843-4, JB5843-5, JB5843-6, JB5843-7

| CAS No. | Compound | JB5843-6 ug/l | Q | Spike ug/l | MS ug/l | MS % | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 50 | 38.4 | 77 | 38.1 | 76 | 1 | 64-135/13 |
| 100-41-4 | Ethylbenzene | 0.27 | J | 50 | 37.3 | 74 | 37.3 | 74 | 0 | 40-140/12 |
| 87-68-3 | Hexachlorobutadiene | ND | | 50 | 28.2 | 56 | 29.6 | 59 | 5 | 51-141/16 |
| 98-82-8 | Isopropylbenzene | ND | | 50 | 36.3 | 73 | 36.6 | 73 | 1 | 56-138/13 |
| 99-87-6 | p-Isopropyltoluene | ND | | 50 | 34.6 | 69 | 34.8 | 70 | 1 | 58-136/14 |
| 1634-04-4 | Methyl Tert Butyl Ether | 5.5 | | 50 | 41.1 | 71 | 40.2 | 69 | 2 | 54-136/12 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | | 50 | 33.6 | 67 | 33.8 | 68 | 1 | 61-138/14 |
| 74-95-3 | Methylene bromide | ND | | 50 | 37.1 | 74 | 37.3 | 75 | 1 | 70-134/12 |
| 75-09-2 | Methylene chloride | ND | | 50 | 36.7 | 73 | 34.9 | 70 | 5 | 60-130/13 |
| 91-20-3 | Naphthalene | ND | | 50 | 28.3 | 57 | 30.8 | 62 | 8 | 51-149/14 |
| 103-65-1 | n-Propylbenzene | ND | | 50 | 37.2 | 74 | 37.3 | 75 | 0 | 51-138/14 |
| 100-42-5 | Styrene | ND | | 50 | 40.5 | 81 | 39.7 | 79 | 2 | 59-132/13 |
| 75-65-0 | Tert Butyl Alcohol | ND | | 250 | 268 | 107 | 269 | 108 | 0 | 57-153/16 |
| 994-05-8 | tert-Amyl Methyl Ether | ND | | 50 | 45.8 | 92 | 44.6 | 89 | 3 | 60-133/11 |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | | 50 | 50.5 | 101 | 49.4 | 99 | 2 | 59-134/11 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | | 50 | 36.1 | 72 | 36.3 | 73 | 1 | 69-134/12 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 50 | 32.6 | 65 | 32.7 | 65 | 0 | 65-128/12 |
| 127-18-4 | Tetrachloroethene | ND | | 50 | 34.3 | 69 | 35.3 | 71 | 3 | 52-143/15 |
| 108-88-3 | Toluene | 43.1 | | 50 | 70.2 | 54 | 70.4 | 55 | 0 | 47-140/12 |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | | 50 | 29.2 | 58* [a] | 30.9 | 62 | 6 | 62-137/14 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | | 50 | 30.9 | 62* [a] | 32.7 | 65 | 6 | 64-136/14 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 50 | 36.5 | 73 | 35.9 | 72 | 2 | 55-146/15 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | | 50 | 39.1 | 78 | 39.0 | 78 | 0 | 70-129/12 |
| 79-01-6 | Trichloroethene | ND | | 50 | 37.0 | 74 | 37.2 | 74 | 1 | 54-142/14 |
| 75-69-4 | Trichlorofluoromethane | ND | | 50 | 46.2 | 92 | 46.1 | 92 | 0 | 45-159/19 |
| 96-18-4 | 1,2,3-Trichloropropane | ND | | 50 | 34.2 | 68 | 34.2 | 68 | 0 | 64-137/13 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.28 | J | 50 | 36.7 | 73 | 36.4 | 72 | 1 | 40-147/12 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.26 | J | 50 | 36.1 | 72 | 36.3 | 72 | 1 | 50-142/13 |
| 75-01-4 | Vinyl chloride | ND | | 50 | 55.2 | 110 | 55.2 | 110 | 0 | 42-145/18 |
| | m,p-Xylene | 4.4 | | 100 | 76.1 | 72 | 76.2 | 72 | 0 | 39-141/12 |
| 95-47-6 | o-Xylene | 7.4 | | 50 | 44.0 | 73 | 43.8 | 73 | 0 | 51-138/12 |
| 1330-20-7 | Xylene (total) | 11.8 | | 150 | 120 | 72 | 120 | 72 | 0 | 42-140/12 |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB5843
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5843-6MS | 2C95452.D | 1 | 05/10/12 | DR | n/a | n/a | V2C4359 |
| JB5843-6MSD | 2C95453.D | 1 | 05/10/12 | DR | n/a | n/a | V2C4359 |
| JB5843-6 | 2C95448.D | 1 | 05/10/12 | DR | n/a | n/a | V2C4359 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5843-1, JB5843-3, JB5843-4, JB5843-5, JB5843-6, JB5843-7

| CAS No. | Surrogate Recoveries | MS | MSD | JB5843-6 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 101% | 99% | 96% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 99% | 97% | 95% | 70-127% |
| 2037-26-5 | Toluene-D8 | 102% | 102% | 101% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 91% | 91% | 94% | 76-118% |

(a) Outside control limits due to matrix interference.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB5843
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5978-1MS | 2B95650.D | 1 | 05/11/12 | DR | n/a | n/a | V2B4317 |
| JB5978-1MSD | 2B95651.D | 1 | 05/11/12 | DR | n/a | n/a | V2B4317 |
| JB5978-1 | 2B95645.D | 1 | 05/11/12 | DR | n/a | n/a | V2B4317 |
| JB5978-1 | 2B95652.D | 10 | 05/11/12 | DR | n/a | n/a | V2B4317 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5843-2

| CAS No. | Compound | JB5978-1 ug/l | Q | Spike ug/l | MS ug/l | MS % | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | 239 [b] | | 50 | 336 | 194* [a] | 347 | 216* [a] | 3 | 39-150/20 |
| 71-43-2 | Benzene | ND | | 50 | 45.5 | 91 | 47.5 | 95 | 4 | 40-139/12 |
| 108-86-1 | Bromobenzene | ND | | 50 | 46.7 | 93 | 47.5 | 95 | 2 | 67-131/12 |
| 74-97-5 | Bromochloromethane | ND | | 50 | 50.6 | 101 | 52.2 | 104 | 3 | 67-134/12 |
| 75-27-4 | Bromodichloromethane | ND | | 50 | 47.3 | 95 | 48.5 | 97 | 3 | 68-135/12 |
| 75-25-2 | Bromoform | ND | | 50 | 43.4 | 87 | 44.9 | 90 | 3 | 55-141/14 |
| 74-83-9 | Bromomethane | ND | | 50 | 45.2 | 90 | 47.2 | 94 | 4 | 49-145/16 |
| 78-93-3 | 2-Butanone (MEK) | ND | | 50 | 65.3 | 131 | 69.1 | 138 | 6 | 55-141/15 |
| 104-51-8 | n-Butylbenzene | ND | | 50 | 44.8 | 90 | 46.8 | 94 | 4 | 55-139/15 |
| 135-98-8 | sec-Butylbenzene | ND | | 50 | 44.1 | 88 | 46.1 | 92 | 4 | 55-137/14 |
| 98-06-6 | tert-Butylbenzene | ND | | 50 | 43.8 | 88 | 47.4 | 95 | 8 | 58-137/15 |
| 56-23-5 | Carbon tetrachloride | ND | | 50 | 42.7 | 85 | 45.5 | 91 | 6 | 52-155/16 |
| 108-90-7 | Chlorobenzene | ND | | 50 | 45.5 | 91 | 47.0 | 94 | 3 | 66-129/11 |
| 75-00-3 | Chloroethane | ND | | 50 | 49.9 | 100 | 52.5 | 105 | 5 | 50-140/16 |
| 67-66-3 | Chloroform | ND | | 50 | 47.9 | 96 | 49.7 | 99 | 4 | 63-133/13 |
| 74-87-3 | Chloromethane | ND | | 50 | 50.9 | 102 | 53.0 | 106 | 4 | 43-138/17 |
| 95-49-8 | o-Chlorotoluene | ND | | 50 | 45.9 | 92 | 47.0 | 94 | 2 | 62-132/13 |
| 106-43-4 | p-Chlorotoluene | ND | | 50 | 45.1 | 90 | 46.0 | 92 | 2 | 62-129/13 |
| 108-20-3 | Di-Isopropyl ether | ND | | 50 | 51.6 | 103 | 52.8 | 106 | 2 | 51-136/11 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | | 50 | 52.7 | 105 | 54.0 | 108 | 2 | 57-142/14 |
| 124-48-1 | Dibromochloromethane | ND | | 50 | 45.4 | 91 | 47.1 | 94 | 4 | 64-136/12 |
| 106-93-4 | 1,2-Dibromoethane | ND | | 50 | 49.6 | 99 | 51.5 | 103 | 4 | 69-132/11 |
| 95-50-1 | 1,2-Dichlorobenzene | ND | | 50 | 45.3 | 91 | 46.7 | 93 | 3 | 69-129/11 |
| 541-73-1 | 1,3-Dichlorobenzene | ND | | 50 | 44.4 | 89 | 45.6 | 91 | 3 | 66-130/12 |
| 106-46-7 | 1,4-Dichlorobenzene | ND | | 50 | 44.4 | 89 | 44.9 | 90 | 1 | 66-127/12 |
| 75-71-8 | Dichlorodifluoromethane | ND | | 50 | 45.5 | 91 | 48.2 | 96 | 6 | 31-166/20 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 50 | 48.9 | 98 | 50.4 | 101 | 3 | 58-132/13 |
| 107-06-2 | 1,2-Dichloroethane | ND | | 50 | 47.6 | 95 | 49.7 | 99 | 4 | 62-145/12 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 50 | 44.9 | 90 | 47.4 | 95 | 5 | 43-142/17 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.54 | J | 50 | 48.6 | 96 | 50.2 | 99 | 3 | 55-132/12 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 50 | 46.1 | 92 | 47.7 | 95 | 3 | 53-132/14 |
| 78-87-5 | 1,2-Dichloropropane | ND | | 50 | 48.7 | 97 | 50.8 | 102 | 4 | 65-128/12 |
| 142-28-9 | 1,3-Dichloropropane | ND | | 50 | 49.6 | 99 | 50.8 | 102 | 2 | 68-127/11 |
| 594-20-7 | 2,2-Dichloropropane | ND | | 50 | 46.7 | 93 | 48.2 | 96 | 3 | 41-146/16 |
| 563-58-6 | 1,1-Dichloropropene | ND | | 50 | 44.3 | 89 | 47.1 | 94 | 6 | 54-139/15 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 50 | 46.7 | 93 | 48.5 | 97 | 4 | 66-130/12 |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB5843
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5978-1MS | 2B95650.D | 1 | 05/11/12 | DR | n/a | n/a | V2B4317 |
| JB5978-1MSD | 2B95651.D | 1 | 05/11/12 | DR | n/a | n/a | V2B4317 |
| JB5978-1 | 2B95645.D | 1 | 05/11/12 | DR | n/a | n/a | V2B4317 |
| JB5978-1 | 2B95652.D | 10 | 05/11/12 | DR | n/a | n/a | V2B4317 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5843-2

| CAS No. | Compound | JB5978-1 ug/l | Q | Spike ug/l | MS ug/l | MS % | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 50 | 44.8 | 90 | 46.5 | 93 | 4 | 64-135/13 |
| 100-41-4 | Ethylbenzene | ND | | 50 | 43.7 | 87 | 45.2 | 90 | 3 | 40-140/12 |
| 87-68-3 | Hexachlorobutadiene | ND | | 50 | 39.9 | 80 | 42.7 | 85 | 7 | 51-141/16 |
| 98-82-8 | Isopropylbenzene | ND | | 50 | 45.4 | 91 | 47.1 | 94 | 4 | 56-138/13 |
| 99-87-6 | p-Isopropyltoluene | ND | | 50 | 44.8 | 90 | 46.3 | 93 | 3 | 58-136/14 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 50 | 51.1 | 102 | 52.8 | 106 | 3 | 54-136/12 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | | 50 | 63.5 | 127 | 66.4 | 133 | 4 | 61-138/14 |
| 74-95-3 | Methylene bromide | ND | | 50 | 50.6 | 101 | 52.1 | 104 | 3 | 70-134/12 |
| 75-09-2 | Methylene chloride | ND | | 50 | 48.3 | 97 | 49.8 | 100 | 3 | 60-130/13 |
| 91-20-3 | Naphthalene | ND | | 50 | 55.1 | 110 | 56.8 | 114 | 3 | 51-149/14 |
| 103-65-1 | n-Propylbenzene | ND | | 50 | 45.2 | 90 | 46.7 | 93 | 3 | 51-138/14 |
| 100-42-5 | Styrene | ND | | 50 | 40.9 | 82 | 42.1 | 84 | 3 | 59-132/13 |
| 75-65-0 | Tert Butyl Alcohol | ND | | 250 | 274 | 110 | 285 | 114 | 4 | 57-153/16 |
| 994-05-8 | tert-Amyl Methyl Ether | ND | | 50 | 49.4 | 99 | 51.1 | 102 | 3 | 60-133/11 |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | | 50 | 49.5 | 99 | 51.4 | 103 | 4 | 59-134/11 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | | 50 | 47.0 | 94 | 48.3 | 97 | 3 | 69-134/12 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 50 | 50.9 | 102 | 52.5 | 105 | 3 | 65-128/12 |
| 127-18-4 | Tetrachloroethene | ND | | 50 | 44.6 | 89 | 46.7 | 93 | 5 | 52-143/15 |
| 108-88-3 | Toluene | ND | | 50 | 44.0 | 88 | 45.9 | 92 | 4 | 47-140/12 |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | | 50 | 47.5 | 95 | 49.6 | 99 | 4 | 62-137/14 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | | 50 | 47.2 | 94 | 49.0 | 98 | 4 | 64-136/14 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 50 | 44.9 | 90 | 47.4 | 95 | 5 | 55-146/15 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | | 50 | 49.0 | 98 | 51.0 | 102 | 4 | 70-129/12 |
| 79-01-6 | Trichloroethene | 1.7 | | 50 | 47.0 | 91 | 49.1 | 95 | 4 | 54-142/14 |
| 75-69-4 | Trichlorofluoromethane | ND | | 50 | 48.8 | 98 | 51.5 | 103 | 5 | 45-159/19 |
| 96-18-4 | 1,2,3-Trichloropropane | ND | | 50 | 48.3 | 97 | 50.8 | 102 | 5 | 64-137/13 |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | | 50 | 45.6 | 91 | 47.0 | 94 | 3 | 40-147/12 |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | | 50 | 44.4 | 89 | 45.7 | 91 | 3 | 50-142/13 |
| 75-01-4 | Vinyl chloride | ND | | 50 | 49.5 | 99 | 52.5 | 105 | 6 | 42-145/18 |
| | m,p-Xylene | ND | | 100 | 86.6 | 87 | 91.3 | 91 | 5 | 39-141/12 |
| 95-47-6 | o-Xylene | ND | | 50 | 43.8 | 88 | 45.8 | 92 | 4 | 51-138/12 |
| 1330-20-7 | Xylene (total) | ND | | 150 | 130 | 87 | 137 | 91 | 5 | 42-140/12 |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB5843
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5978-1MS | 2B95650.D | 1 | 05/11/12 | DR | n/a | n/a | V2B4317 |
| JB5978-1MSD | 2B95651.D | 1 | 05/11/12 | DR | n/a | n/a | V2B4317 |
| JB5978-1 | 2B95645.D | 1 | 05/11/12 | DR | n/a | n/a | V2B4317 |
| JB5978-1 | 2B95652.D | 10 | 05/11/12 | DR | n/a | n/a | V2B4317 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB5843-2

| CAS No. | Surrogate Recoveries | MS | MSD | JB5978-1 | JB5978-1 | Limits |
|---|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 110% | 110% | 113% | 110% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 110% | 110% | 114% | 110% | 70-127% |
| 2037-26-5 | Toluene-D8 | 113% | 113% | 107% | 111% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 103% | 102% | 100% | 101% | 76-118% |

(a) Outside control limits due to high level in sample relative to spike amount.
(b) Result is from Run #2.

# Instrument Performance Check (BFB)



**Job Number:** JB5843
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Sample:** V2B4212-BFB
**Lab File ID:** 2B93453.D
**Instrument ID:** GCMS2B
**Injection Date:** 03/09/12
**Injection Time:** 09:57

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 21824 | 19.4 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 54306 | 48.3 | | Pass |
| 95 | Base peak, 100% relative abundance | 112544 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 7566 | 6.72 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 150.0% of mass 95 | 110706 | 98.4 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 8263 | 7.34 | (7.46) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 107354 | 95.4 | (97.0) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 7173 | 6.37 | (6.68) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2B4212-IC4212 | 2B93454.D | 03/09/12 | 10:25 | 00:28 | Initial cal 0.5 |
| V2B4212-IC4212 | 2B93455.D | 03/09/12 | 10:56 | 00:59 | Initial cal 1 |
| V2B4212-IC4212 | 2B93456.D | 03/09/12 | 11:27 | 01:30 | Initial cal 2 |
| V2B4212-IC4212 | 2B93457.D | 03/09/12 | 11:59 | 02:02 | Initial cal 5 |
| V2B4212-IC4212 | 2B93458.D | 03/09/12 | 12:30 | 02:33 | Initial cal 10 |
| V2B4212-IC4212 | 2B93459.D | 03/09/12 | 13:01 | 03:04 | Initial cal 20 |
| V2B4212-ICC4212 | 2B93460.D | 03/09/12 | 13:33 | 03:36 | Initial cal 50 |
| V2B4212-IC4212 | 2B93461.D | 03/09/12 | 14:04 | 04:07 | Initial cal 100 |
| V2B4212-IC4212 | 2B93462.D | 03/09/12 | 14:35 | 04:38 | Initial cal 200 |
| V2B4212-ICV4212 | 2B93465.D | 03/09/12 | 16:09 | 06:12 | Initial cal verification 50 |
| V2B4212-ICV4212 | 2B93466.D | 03/09/12 | 17:18 | 07:21 | Initial cal verification 50 |

# Instrument Performance Check (BFB)



**Job Number:** JB5843
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Sample:** V2B4317-BFB
**Lab File ID:** 2B95638.D
**Instrument ID:** GCMS2B
**Injection Date:** 05/11/12
**Injection Time:** 08:58



| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 16442 | 19.7 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 40800 | 48.9 | | Pass |
| 95 | Base peak, 100% relative abundance | 83501 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 5692 | 6.82 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 150.0% of mass 95 | 78602 | 94.1 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 5904 | 7.07 | (7.51) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 77488 | 92.8 | (98.6) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 5070 | 6.07 | (6.54) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2B4317-CC4212 | 2B95640.D | 05/11/12 | 10:42 | 01:44 | Continuing cal 20 |
| V2B4317-MB | 2B95642.D | 05/11/12 | 11:48 | 02:50 | Method Blank |
| V2B4317-BS | 2B95643.D | 05/11/12 | 12:20 | 03:22 | Blank Spike |
| JB5978-1 | 2B95645.D | 05/11/12 | 13:33 | 04:35 | (used for QC only; not part of job JB5843) |
| ZZZZZZ | 2B95646.D | 05/11/12 | 14:04 | 05:06 | (unrelated sample) |
| JB5843-2 | 2B95647.D | 05/11/12 | 14:36 | 05:38 | 137675-450 BNR |
| ZZZZZZ | 2B95648.D | 05/11/12 | 15:07 | 06:09 | (unrelated sample) |
| ZZZZZZ | 2B95649.D | 05/11/12 | 15:39 | 06:41 | (unrelated sample) |
| JB5978-1MS | 2B95650.D | 05/11/12 | 16:10 | 07:12 | Matrix Spike |
| JB5978-1MSD | 2B95651.D | 05/11/12 | 16:42 | 07:44 | Matrix Spike Duplicate |
| JB5978-1 | 2B95652.D | 05/11/12 | 17:13 | 08:15 | (used for QC only; not part of job JB5843) |
| ZZZZZZ | 2B95653.D | 05/11/12 | 17:44 | 08:46 | (unrelated sample) |
| ZZZZZZ | 2B95654.D | 05/11/12 | 18:15 | 09:17 | (unrelated sample) |
| ZZZZZZ | 2B95655.D | 05/11/12 | 18:47 | 09:49 | (unrelated sample) |
| ZZZZZZ | 2B95656.D | 05/11/12 | 19:18 | 10:20 | (unrelated sample) |
| ZZZZZZ | 2B95657.D | 05/11/12 | 19:49 | 10:51 | (unrelated sample) |
| ZZZZZZ | 2B95658.D | 05/11/12 | 20:21 | 11:23 | (unrelated sample) |
| ZZZZZZ | 2B95659.D | 05/11/12 | 20:52 | 11:54 | (unrelated sample) |

# Instrument Performance Check (BFB)



**Job Number:** JB5843
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Sample:** V2C4340-BFB
**Lab File ID:** 2C95025.D
**Instrument ID:** GCMS2C
**Injection Date:** 04/26/12
**Injection Time:** 16:30



| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 10208 | 17.6 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 26349 | 45.4 | | Pass |
| 95 | Base peak, 100% relative abundance | 58021 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 3820 | 6.58 | | Pass |
| 173 | Less than 2.0% of mass 174 | 335 | 0.58 | (0.66) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 51061 | 88.0 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 3881 | 6.69 | (7.60) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 49290 | 85.0 | (96.5) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 3300 | 5.69 | (6.70) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2C4340-IC4340 | 2C95026.D | 04/26/12 | 17:11 | 00:41 | Initial cal 0.5 |
| V2C4340-IC4340 | 2C95027.D | 04/26/12 | 17:41 | 01:11 | Initial cal 1 |
| V2C4340-IC4340 | 2C95028.D | 04/26/12 | 18:11 | 01:41 | Initial cal 2 |
| V2C4340-IC4340 | 2C95029.D | 04/26/12 | 18:42 | 02:12 | Initial cal 5 |
| V2C4340-IC4340 | 2C95030.D | 04/26/12 | 19:12 | 02:42 | Initial cal 10 |
| V2C4340-IC4340 | 2C95031.D | 04/26/12 | 19:43 | 03:13 | Initial cal 20 |
| V2C4340-ICC4340 | 2C95032.D | 04/26/12 | 20:13 | 03:43 | Initial cal 50 |
| V2C4340-IC4340 | 2C95033.D | 04/26/12 | 20:43 | 04:13 | Initial cal 100 |
| V2C4340-IC4340 | 2C95034.D | 04/26/12 | 21:14 | 04:44 | Initial cal 200 |
| V2C4340-ICV4340 | 2C95037.D | 04/26/12 | 22:45 | 06:15 | Initial cal verification 50 |

# Instrument Performance Check (BFB)



**Job Number:** JB5843
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Sample:** V2C4359-BFB
**Lab File ID:** 2C95439.D
**Instrument ID:** GCMS2C
**Injection Date:** 05/10/12
**Injection Time:** 10:01



| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 9928 | 18.6 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 24938 | 46.8 | | Pass |
| 95 | Base peak, 100% relative abundance | 53296 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 3549 | 6.66 | | Pass |
| 173 | Less than 2.0% of mass 174 | 270 | 0.51 | (0.54) [a] | Pass |
| 174 | 50.0 - 150.0% of mass 95 | 50162 | 94.1 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 3655 | 6.86 | (7.29) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 48949 | 91.8 | (97.6) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 3246 | 6.09 | (6.63) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2C4359-CC4340 | 2C95441.D | 05/10/12 | 11:27 | 01:26 | Continuing cal 20 |
| V2C4359-MB | 2C95443.D | 05/10/12 | 12:35 | 02:34 | Method Blank |
| V2C4359-BS | 2C95444.D | 05/10/12 | 13:05 | 03:04 | Blank Spike |
| JB5843-3 | 2C95446.D | 05/10/12 | 14:17 | 04:16 | 137675-MW-08S |
| JB5843-5 | 2C95447.D | 05/10/12 | 14:47 | 04:46 | 137675-RW-03 |
| JB5843-6 | 2C95448.D | 05/10/12 | 15:17 | 05:16 | 137675-TF-01 |
| JB5843-7 | 2C95449.D | 05/10/12 | 15:48 | 05:47 | 137675-TF-02 |
| JB5843-4 | 2C95450.D | 05/10/12 | 16:18 | 06:17 | 137675-RW-01 |
| JB5843-1 | 2C95451.D | 05/10/12 | 16:48 | 06:47 | 137675-750 BND |
| JB5843-6MS | 2C95452.D | 05/10/12 | 17:19 | 07:18 | Matrix Spike |
| JB5843-6MSD | 2C95453.D | 05/10/12 | 17:49 | 07:48 | Matrix Spike Duplicate |
| ZZZZZZ | 2C95455.D | 05/10/12 | 18:50 | 08:49 | (unrelated sample) |
| ZZZZZZ | 2C95456.D | 05/10/12 | 19:20 | 09:19 | (unrelated sample) |
| ZZZZZZ | 2C95457.D | 05/10/12 | 19:50 | 09:49 | (unrelated sample) |

# Volatile Surrogate Recovery Summary



**Job Number:** JB5843
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Method:** SW846 8260B **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 | S2 | S3 | S4 |
|---|---|---|---|---|---|
| JB5843-1 | 2C95451.D | 98.0 | 95.0 | 102.0 | 94.0 |
| JB5843-2 | 2B95647.D | 102.0 | 112.0 | 111.0 | 100.0 |
| JB5843-3 | 2C95446.D | 95.0 | 93.0 | 100.0 | 92.0 |
| JB5843-4 | 2C95450.D | 97.0 | 97.0 | 104.0 | 92.0 |
| JB5843-5 | 2C95447.D | 96.0 | 96.0 | 100.0 | 93.0 |
| JB5843-6 | 2C95448.D | 96.0 | 95.0 | 101.0 | 94.0 |
| JB5843-7 | 2C95449.D | 98.0 | 96.0 | 101.0 | 93.0 |
| JB5843-6MS | 2C95452.D | 101.0 | 99.0 | 102.0 | 91.0 |
| JB5843-6MSD | 2C95453.D | 99.0 | 97.0 | 102.0 | 91.0 |
| JB5978-1MS | 2B95650.D | 110.0 | 110.0 | 113.0 | 103.0 |
| JB5978-1MSD | 2B95651.D | 110.0 | 110.0 | 113.0 | 102.0 |
| V2B4317-BS | 2B95643.D | 110.0 | 109.0 | 115.0 | 101.0 |
| V2B4317-MB | 2B95642.D | 112.0 | 112.0 | 111.0 | 101.0 |
| V2C4359-BS | 2C95444.D | 98.0 | 94.0 | 102.0 | 89.0 |
| V2C4359-MB | 2C95443.D | 96.0 | 92.0 | 102.0 | 90.0 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = Dibromofluoromethane | 77-120% |
| **S2** = 1,2-Dichloroethane-D4 | 70-127% |
| **S3** = Toluene-D8 | 79-120% |
| **S4** = 4-Bromofluorobenzene | 76-118% |

New Jersey
ACCUTEST LABORATORIES



# GC Volatiles

## QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

# Method Blank Summary



**Job Number:** JB5843
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| GUV3869-MB2 | UV98152.D | 1 | 05/12/12 | XPL | n/a | n/a | GUV3869 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB5843-1, JB5843-2, JB5843-3, JB5843-4, JB5843-5, JB5843-6, JB5843-7

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 81% | 68-114% |

# Method Blank Summary



**Job Number:** JB5843
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| GUV3869-MB1 | UV98142.D | 1 | 05/12/12 | XPL | n/a | n/a | GUV3869 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

GUV3869-BS, JB5849-5MS, JB5849-5MSD

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 81% | 68-114% |

# Blank Spike Summary



**Job Number:** JB5843
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| GUV3869-BS | UV98143.D | 1 | 05/12/12 | XPL | n/a | n/a | GUV3869 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB5843-1, JB5843-2, JB5843-3, JB5843-4, JB5843-5, JB5843-6, JB5843-7

| CAS No. | Compound | Spike mg/l | BSP mg/l | BSP % | Limits |
|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 8 | 8.58 | 107 | 72-125 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 108% | 68-114% |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB5843
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5849-5MS | UV98149.D | 1 | 05/12/12 | XPL | n/a | n/a | GUV3869 |
| JB5849-5MSD | UV98150.D | 1 | 05/12/12 | XPL | n/a | n/a | GUV3869 |
| JB5849-5 | UV98145.D | 1 | 05/12/12 | XPL | n/a | n/a | GUV3869 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB5843-1, JB5843-2, JB5843-3, JB5843-4, JB5843-5, JB5843-6, JB5843-7

| CAS No. | Compound | JB5849-5 mg/l | Q | Spike mg/l | MS mg/l | MS % | MSD mg/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | | 8 | 7.76 | 97 | 7.65 | 96 | 1 | 46-131/20 |

| CAS No. | Surrogate Recoveries | MS | MSD | JB5849-5 | Limits |
|---|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 97% | 96% | 81% | 68-114% |

# Volatile Surrogate Recovery Summary



**Job Number:** JB5843
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Method:** SW846 8015C **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 [a] |
|---|---|---|
| JB5843-1 | UV98156.D | 80.0 |
| JB5843-2 | UV98157.D | 79.0 |
| JB5843-3 | UV98153.D | 81.0 |
| JB5843-4 | UV98154.D | 81.0 |
| JB5843-5 | UV98155.D | 81.0 |
| JB5843-6 | UV98158.D | 80.0 |
| JB5843-7 | UV98159.D | 79.0 |
| GUV3869-BS | UV98143.D | 108.0 |
| GUV3869-MB2 | UV98152.D | 81.0 |
| JB5849-5MS | UV98149.D | 97.0 |
| JB5849-5MSD | UV98150.D | 96.0 |
| GUV3869-MB1 | UV98142.D | 81.0 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = aaa-Trifluorotoluene | 68-114% |

(a) Recovery from GC signal #1

New Jersey
ACCUTEST LABORATORIES



# GC Semi-volatiles

## QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

# Method Blank Summary



**Job Number:** JB5843
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP56816-MB1 | 2Z23633.D | 1 | 05/10/12 | CS | 05/08/12 | OP56816 | G2Z976 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB5843-1, JB5843-2, JB5843-3, JB5843-4, JB5843-5, JB5843-6, JB5843-7

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 84-15-1 | o-Terphenyl | 81% | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 54% | 32-138% |
| 438-22-2 | 5a-Androstane | 63% | 31-136% |

# Blank Spike Summary



**Job Number:** JB5843
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP56816-BS1 | 2Z23634.D | 1 | 05/10/12 | CS | 05/08/12 | OP56816 | G2Z976 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB5843-1, JB5843-2, JB5843-3, JB5843-4, JB5843-5, JB5843-6, JB5843-7

| CAS No. | Compound | Spike mg/l | BSP mg/l | BSP % | Limits |
|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | 1 | 0.809 | 81 | 15-111 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 84-15-1 | o-Terphenyl | 78% | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 58% | 32-138% |
| 438-22-2 | 5a-Androstane | 67% | 31-136% |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB5843
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP56816-MS | 2Z23635.D | 1 | 05/11/12 | CS | 05/08/12 | OP56816 | G2Z976 |
| OP56816-MSD | 2Z23636.D | 1 | 05/11/12 | CS | 05/08/12 | OP56816 | G2Z976 |
| JB5843-1 | 2Z23642.D | 1 | 05/11/12 | CS | 05/08/12 | OP56816 | G2Z976 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB5843-1, JB5843-2, JB5843-3, JB5843-4, JB5843-5, JB5843-6, JB5843-7

| CAS No. | Compound | JB5843-1 mg/l | Q | Spike mg/l | MS mg/l | MS % | MSD mg/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | | 2 | 1.67 | 84 | 1.44 | 72 | 15 | 23-160/31 |

| CAS No. | Surrogate Recoveries | MS | MSD | JB5843-1 | Limits |
|---|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 86% | 77% | 75% | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 77% | 69% | 67% | 32-138% |
| 438-22-2 | 5a-Androstane | 88% | 79% | 72% | 31-136% |

# Semivolatile Surrogate Recovery Summary



**Job Number:** JB5843
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Method:** SW846 8015C **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 [a] | S2 [a] | S3 [a] |
|---|---|---|---|---|
| JB5843-1 | 2Z23642.D | 75.0 | 67.0 | 72.0 |
| JB5843-2 | 2Z23643.D | 72.0 | 68.0 | 72.0 |
| JB5843-3 | 2Z23644.D | 83.0 | 73.0 | 83.0 |
| JB5843-4 | 2Z23651.D | 87.0 | 80.0 | 89.0 |
| JB5843-5 | 2Z23652.D | 85.0 | 79.0 | 89.0 |
| JB5843-6 | 2Z23653.D | 75.0 | 71.0 | 79.0 |
| JB5843-7 | 2Z23654.D | 84.0 | 77.0 | 87.0 |
| OP56816-BS1 | 2Z23634.D | 78.0 | 58.0 | 67.0 |
| OP56816-MB1 | 2Z23633.D | 81.0 | 54.0 | 63.0 |
| OP56816-MS | 2Z23635.D | 86.0 | 77.0 | 88.0 |
| OP56816-MSD | 2Z23636.D | 77.0 | 69.0 | 79.0 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = o-Terphenyl | 36-144% |
| **S2** = Tetracosane-d50 | 32-138% |
| **S3** = 5a-Androstane | 31-136% |

(a) Recovery from GC signal #1

New Jersey
ACCUTEST LABORATORIES

05/10/12

# Technical Report for

## Shell Oil Products US

URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

INC#97436977

Accutest Job Number: JB5593

Sampling Dates: 04/30/12 - 05/02/12

Report to:

URS Corporation
12420 Milestone Center Drive Suite 150
Germantown, MD 20876
jenna_anthony@urscorp.com; adriane_rogers@urscorp.com

ATTN: Jenna Anthony

Total number of pages in report: **82**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul Ioannidis
Lab Director

Client Service contact: Marty Vitanza 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.



Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

# Table of Contents

-1-


**Section 1: Sample Summary** ..... **3**
**Section 2: Case Narrative/Conformance Summary** ..... **4**
**Section 3: Sample Results** ..... **5**
- **3.1:** JB5593-1: 600 BRYANTS NURSERY ..... 6
- **3.2:** JB5593-2: 601 BRYANTS NURSERY ..... 11
- **3.3:** JB5593-3: 610 BRYANTS NURSERY ..... 16
- **3.4:** JB5593-4: 611 BRYANTS NURSERY ..... 21
- **3.5:** JB5593-5: 621 BRYANTS NURSERY ..... 26
- **3.6:** JB5593-6: 651 BRYANTS NURSERY ..... 31
- **3.7:** JB5593-7: 660 BRYANTS NURSERY ..... 36
- **3.8:** JB5593-8: 661 BRYANTS NURSERY ..... 41
- **3.9:** JB5593-9: 670 BRYANTS NURSERY ..... 46

**Section 4: Misc. Forms** ..... **51**
- **4.1:** Chain of Custody ..... 52

**Section 5: GC/MS Volatiles - QC Data Summaries** ..... **56**
- **5.1:** Method Blank Summary ..... 57
- **5.2:** Blank Spike Summary ..... 60
- **5.3:** Matrix Spike Summary ..... 63
- **5.4:** Duplicate Summary ..... 66
- **5.5:** Instrument Performance Checks (BFB) ..... 69
- **5.6:** Surrogate Recovery Summaries ..... 71

**Section 6: GC Volatiles - QC Data Summaries** ..... **72**
- **6.1:** Method Blank Summary ..... 73
- **6.2:** Blank Spike Summary ..... 75
- **6.3:** Matrix Spike/Matrix Spike Duplicate Summary ..... 76
- **6.4:** Surrogate Recovery Summaries ..... 77

**Section 7: GC Semi-volatiles - QC Data Summaries** ..... **78**
- **7.1:** Method Blank Summary ..... 79
- **7.2:** Blank Spike Summary ..... 80
- **7.3:** Matrix Spike/Matrix Spike Duplicate Summary ..... 81
- **7.4:** Surrogate Recovery Summaries ..... 82

# Sample Summary

Shell Oil Products US

**Job No:** JB5593

URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD
Project No: INC#97436977

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| JB5593-1 | 05/01/12 | 10:00 | DB | 05/03/12 | DW | Drinking Water | 600 BRYANTS NURSERY |
| JB5593-2 | 05/02/12 | 09:30 | DB | 05/03/12 | DW | Drinking Water | 601 BRYANTS NURSERY |
| JB5593-3 | 05/01/12 | 11:20 | DB | 05/03/12 | DW | Drinking Water | 610 BRYANTS NURSERY |
| JB5593-4 | 05/01/12 | 11:05 | DB | 05/03/12 | DW | Drinking Water | 611 BRYANTS NURSERY |
| JB5593-5 | 04/30/12 | 18:00 | DB | 05/03/12 | DW | Drinking Water | 621 BRYANTS NURSERY |
| JB5593-6 | 05/01/12 | 09:00 | DB | 05/03/12 | DW | Drinking Water | 651 BRYANTS NURSERY |
| JB5593-7 | 05/01/12 | 09:30 | DB | 05/03/12 | DW | Drinking Water | 660 BRYANTS NURSERY |
| JB5593-8 | 05/01/12 | 08:20 | DB | 05/03/12 | DW | Drinking Water | 661 BRYANTS NURSERY |
| JB5593-9 | 05/01/12 | 08:35 | DB | 05/03/12 | DW | Drinking Water | 670 BRYANTS NURSERY |

# CASE NARRATIVE / CONFORMANCE SUMMARY

| | | | |
|---|---|---|---|
| **Client:** | Shell Oil Products US | **Job No** | JB5593 |
| **Site:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Sprin | **Report Date** | 5/10/2012 8:57:23 AM |

On 05/03/2012, 9 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 2 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB5593 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

## Volatiles by GCMS By Method EPA 524.2 REV 4.1

**Matrix:** AQ **Batch ID:** V1B3152

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB5593-8MS, JB5593-9DUP were used as the QC samples indicated.

## Volatiles by GC By Method SW846 8015C

**Matrix:** AQ **Batch ID:** GUV3864

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB5604-30MS, JB5604-30MSD were used as the QC samples indicated.

## Extractables by GC By Method SW846 8015C

**Matrix:** AQ **Batch ID:** OP56760

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB5593-4MS, JB5593-4MSD were used as the QC samples indicated.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

New Jersey

ACCUTEST LABORATORIES



## Sample Results

Report of Analysis

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 600 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5593-1 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/03/12 |
| **Method:** | EPA 524.2 REV 4.1 SW846 5035 | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 1B67902.D | 1 | 05/04/12 | MFH | n/a | n/a | V1B3152 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA List**

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | | 5.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone | ND | | 5.0 | 1.6 | ug/l | |
| 71-43-2 | Benzene | ND | 5.0 | 0.50 | 0.047 | ug/l | |
| 108-86-1 | Bromobenzene | ND | | 0.50 | 0.13 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | | 0.50 | 0.13 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | | 0.50 | 0.088 | ug/l | |
| 75-25-2 | Bromoform | ND | | 0.50 | 0.11 | ug/l | |
| 74-83-9 | Bromomethane | ND | | 0.50 | 0.11 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | | 0.50 | 0.11 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | | 0.50 | 0.12 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | | 0.50 | 0.062 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | | 0.50 | 0.10 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 100 | 0.50 | 0.046 | ug/l | |
| 75-00-3 | Chloroethane | ND | | 0.50 | 0.16 | ug/l | |
| 67-66-3 | Chloroform | ND | | 0.50 | 0.069 | ug/l | |
| 74-87-3 | Chloromethane | ND | | 0.50 | 0.095 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | | 0.50 | 0.069 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | | 0.50 | 0.048 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 5.0 | 0.50 | 0.083 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | | 0.50 | 0.067 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 7.0 | 0.50 | 0.14 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | | 0.50 | 0.095 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.20 | 1.0 | 0.22 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.050 | 0.50 | 0.082 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.0 | 0.50 | 0.11 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.0 | 0.50 | 0.080 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | | 0.50 | 0.11 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | | 0.50 | 0.17 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | | 0.50 | 0.075 | ug/l | |
| 74-95-3 | Dibromomethane | ND | | 0.50 | 0.11 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | | 1.0 | 0.10 | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | | 0.50 | 0.11 | ug/l | |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 600 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5593-1 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/03/12 |
| **Method:** | EPA 524.2 REV 4.1 SW846 5035 | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA List**

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| 95-50-1 | o-Dichlorobenzene | ND | 600 | 0.50 | 0.073 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 75 | 0.50 | 0.063 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 100 | 0.50 | 0.10 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 70 | 0.50 | 0.13 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 0.50 | 0.10 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 0.50 | 0.094 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | ND | | 0.50 | 0.062 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 700 | 0.50 | 0.14 | ug/l | |
| 637-92-3 | Ethyl tert Butyl Ether | ND | | 0.50 | 0.064 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | | 2.0 | 0.096 | ug/l | |
| 110-54-3 | Hexane | ND | | 0.50 | 0.28 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | | 2.0 | 0.37 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | | 0.50 | 0.11 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | | 0.50 | 0.053 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 5.0 | 0.50 | 0.11 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 0.50 | 0.068 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | | 2.0 | 0.47 | ug/l | |
| 91-20-3 | Naphthalene | ND | | 0.50 | 0.060 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | | 0.50 | 0.12 | ug/l | |
| 100-42-5 | Styrene | 0.079 | 100 | 0.50 | 0.058 | ug/l | J |
| 994-05-8 | tert-Amyl Methyl Ether | ND | | 0.50 | 0.050 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | | 0.50 | 0.097 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 200 | 0.50 | 0.059 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 0.50 | 0.041 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.0 | 0.50 | 0.075 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | | 0.50 | 0.053 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | | 0.50 | 0.20 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 70 | 0.50 | 0.073 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | | 0.50 | 0.12 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | | 0.50 | 0.091 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 5.0 | 0.50 | 0.12 | ug/l | |
| 108-88-3 | Toluene | ND | 1000 | 0.50 | 0.079 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 5.0 | 0.50 | 0.15 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | | 1.0 | 0.15 | ug/l | |
| 75-65-0 | Tertiary Butyl Alcohol | ND | | 5.0 | 2.4 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 2.0 | 0.50 | 0.12 | ug/l | |
| | m,p-Xylene | ND | | 1.0 | 0.18 | ug/l | |
| 95-47-6 | o-Xylene | ND | | 0.50 | 0.12 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 10000 | 0.50 | 0.12 | ug/l | |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 600 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5593-1 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/03/12 |
| **Method:** | EPA 524.2 REV 4.1 SW846 5035 | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 99% | | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 90% | | 77-115% |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 600 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5593-1 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV97991.D | 1 | 05/08/12 | XPL | n/a | n/a | GUV3864 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 81% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 600 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5593-1 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Y44680.D | 1 | 05/08/12 | CS | 05/04/12 | OP56760 | G2Y1835 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 960 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | | 0.10 | 0.0036 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 90% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 79% | | 32-138% |
| 438-22-2 | 5a-Androstane | 92% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 601 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5593-2 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/03/12 |
| **Method:** | EPA 524.2 REV 4.1 SW846 5035 | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 1B67905.D | 1 | 05/04/12 | MFH | n/a | n/a | V1B3152 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA List**

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | | 5.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone | ND | | 5.0 | 1.6 | ug/l | |
| 71-43-2 | Benzene | ND | 5.0 | 0.50 | 0.047 | ug/l | |
| 108-86-1 | Bromobenzene | ND | | 0.50 | 0.13 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | | 0.50 | 0.13 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | | 0.50 | 0.088 | ug/l | |
| 75-25-2 | Bromoform | ND | | 0.50 | 0.11 | ug/l | |
| 74-83-9 | Bromomethane | ND | | 0.50 | 0.11 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | | 0.50 | 0.11 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | | 0.50 | 0.12 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | | 0.50 | 0.062 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | | 0.50 | 0.10 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 100 | 0.50 | 0.046 | ug/l | |
| 75-00-3 | Chloroethane | ND | | 0.50 | 0.16 | ug/l | |
| 67-66-3 | Chloroform | ND | | 0.50 | 0.069 | ug/l | |
| 74-87-3 | Chloromethane | ND | | 0.50 | 0.095 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | | 0.50 | 0.069 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | | 0.50 | 0.048 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 5.0 | 0.50 | 0.083 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | | 0.50 | 0.067 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 7.0 | 0.50 | 0.14 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | | 0.50 | 0.095 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.20 | 1.0 | 0.22 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.050 | 0.50 | 0.082 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.0 | 0.50 | 0.11 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.0 | 0.50 | 0.080 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | | 0.50 | 0.11 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | | 0.50 | 0.17 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | | 0.50 | 0.075 | ug/l | |
| 74-95-3 | Dibromomethane | ND | | 0.50 | 0.11 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | | 1.0 | 0.10 | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | | 0.50 | 0.11 | ug/l | |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 601 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5593-2 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/03/12 |
| **Method:** | EPA 524.2 REV 4.1 SW846 5035 | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA List**

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| 95-50-1 | o-Dichlorobenzene | ND | 600 | 0.50 | 0.073 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 75 | 0.50 | 0.063 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 100 | 0.50 | 0.10 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 70 | 0.50 | 0.13 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 0.50 | 0.10 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 0.50 | 0.094 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | ND | | 0.50 | 0.062 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 700 | 0.50 | 0.14 | ug/l | |
| 637-92-3 | Ethyl tert Butyl Ether | ND | | 0.50 | 0.064 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | | 2.0 | 0.096 | ug/l | |
| 110-54-3 | Hexane | ND | | 0.50 | 0.28 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | | 2.0 | 0.37 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | | 0.50 | 0.11 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | | 0.50 | 0.053 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 5.0 | 0.50 | 0.11 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 0.50 | 0.068 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | | 2.0 | 0.47 | ug/l | |
| 91-20-3 | Naphthalene | ND | | 0.50 | 0.060 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | | 0.50 | 0.12 | ug/l | |
| 100-42-5 | Styrene | ND | 100 | 0.50 | 0.058 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | | 0.50 | 0.050 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | | 0.50 | 0.097 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 200 | 0.50 | 0.059 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 0.50 | 0.041 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.0 | 0.50 | 0.075 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | | 0.50 | 0.053 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | | 0.50 | 0.20 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 70 | 0.50 | 0.073 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | | 0.50 | 0.12 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | | 0.50 | 0.091 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 5.0 | 0.50 | 0.12 | ug/l | |
| 108-88-3 | Toluene | ND | 1000 | 0.50 | 0.079 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 5.0 | 0.50 | 0.15 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | | 1.0 | 0.15 | ug/l | |
| 75-65-0 | Tertiary Butyl Alcohol | ND | | 5.0 | 2.4 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 2.0 | 0.50 | 0.12 | ug/l | |
| | m,p-Xylene | ND | | 1.0 | 0.18 | ug/l | |
| 95-47-6 | o-Xylene | ND | | 0.50 | 0.12 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 10000 | 0.50 | 0.12 | ug/l | |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 601 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5593-2 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/03/12 |
| **Method:** | EPA 524.2 REV 4.1 SW846 5035 | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 100% | | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 89% | | 77-115% |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 601 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5593-2 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV97992.D | 1 | 05/08/12 | XPL | n/a | n/a | GUV3864 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 81% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 601 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5593-2 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Y44681.D | 1 | 05/08/12 | CS | 05/04/12 | OP56760 | G2Y1835 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 89% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 79% | | 32-138% |
| 438-22-2 | 5a-Androstane | 92% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 610 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5593-3 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/03/12 |
| **Method:** | EPA 524.2 REV 4.1 SW846 5035 | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 1B67906.D | 1 | 05/04/12 | MFH | n/a | n/a | V1B3152 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA List**

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | | 5.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone | ND | | 5.0 | 1.6 | ug/l | |
| 71-43-2 | Benzene | ND | 5.0 | 0.50 | 0.047 | ug/l | |
| 108-86-1 | Bromobenzene | ND | | 0.50 | 0.13 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | | 0.50 | 0.13 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | | 0.50 | 0.088 | ug/l | |
| 75-25-2 | Bromoform | ND | | 0.50 | 0.11 | ug/l | |
| 74-83-9 | Bromomethane | ND | | 0.50 | 0.11 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | | 0.50 | 0.11 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | | 0.50 | 0.12 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | | 0.50 | 0.062 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | | 0.50 | 0.10 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 100 | 0.50 | 0.046 | ug/l | |
| 75-00-3 | Chloroethane | ND | | 0.50 | 0.16 | ug/l | |
| 67-66-3 | Chloroform | ND | | 0.50 | 0.069 | ug/l | |
| 74-87-3 | Chloromethane | ND | | 0.50 | 0.095 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | | 0.50 | 0.069 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | | 0.50 | 0.048 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 5.0 | 0.50 | 0.083 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | | 0.50 | 0.067 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 7.0 | 0.50 | 0.14 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | | 0.50 | 0.095 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.20 | 1.0 | 0.22 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.050 | 0.50 | 0.082 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | 0.21 | 5.0 | 0.50 | 0.11 | ug/l | J |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.0 | 0.50 | 0.080 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | | 0.50 | 0.11 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | | 0.50 | 0.17 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | | 0.50 | 0.075 | ug/l | |
| 74-95-3 | Dibromomethane | ND | | 0.50 | 0.11 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | | 1.0 | 0.10 | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | | 0.50 | 0.11 | ug/l | |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 610 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5593-3 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/03/12 |
| **Method:** | EPA 524.2 REV 4.1 SW846 5035 | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA List**

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| 95-50-1 | o-Dichlorobenzene | ND | 600 | 0.50 | 0.073 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 75 | 0.50 | 0.063 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 100 | 0.50 | 0.10 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 70 | 0.50 | 0.13 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 0.50 | 0.10 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 0.50 | 0.094 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | ND | | 0.50 | 0.062 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 700 | 0.50 | 0.14 | ug/l | |
| 637-92-3 | Ethyl tert Butyl Ether | ND | | 0.50 | 0.064 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | | 2.0 | 0.096 | ug/l | |
| 110-54-3 | Hexane | ND | | 0.50 | 0.28 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | | 2.0 | 0.37 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | | 0.50 | 0.11 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | | 0.50 | 0.053 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 5.0 | 0.50 | 0.11 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 0.50 | 0.068 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | | 2.0 | 0.47 | ug/l | |
| 91-20-3 | Naphthalene | ND | | 0.50 | 0.060 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | | 0.50 | 0.12 | ug/l | |
| 100-42-5 | Styrene | ND | 100 | 0.50 | 0.058 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | | 0.50 | 0.050 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | | 0.50 | 0.097 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 200 | 0.50 | 0.059 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 0.50 | 0.041 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.0 | 0.50 | 0.075 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | | 0.50 | 0.053 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | | 0.50 | 0.20 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 70 | 0.50 | 0.073 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | | 0.50 | 0.12 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | | 0.50 | 0.091 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 5.0 | 0.50 | 0.12 | ug/l | |
| 108-88-3 | Toluene | ND | 1000 | 0.50 | 0.079 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 5.0 | 0.50 | 0.15 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | | 1.0 | 0.15 | ug/l | |
| 75-65-0 | Tertiary Butyl Alcohol | ND | | 5.0 | 2.4 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 2.0 | 0.50 | 0.12 | ug/l | |
| | m,p-Xylene | ND | | 1.0 | 0.18 | ug/l | |
| 95-47-6 | o-Xylene | ND | | 0.50 | 0.12 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 10000 | 0.50 | 0.12 | ug/l | |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 610 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5593-3 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/03/12 |
| **Method:** | EPA 524.2 REV 4.1 SW846 5035 | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 100% | | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 89% | | 77-115% |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 610 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5593-3 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV97993.D | 1 | 05/08/12 | XPL | n/a | n/a | GUV3864 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 82% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 610 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5593-3 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Y44682.D | 1 | 05/08/12 | CS | 05/04/12 | OP56760 | G2Y1835 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 920 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | | 0.11 | 0.0038 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 90% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 77% | | 32-138% |
| 438-22-2 | 5a-Androstane | 92% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 611 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5593-4 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/03/12 |
| **Method:** | EPA 524.2 REV 4.1 SW846 5035 | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 1B67907.D | 1 | 05/04/12 | MFH | n/a | n/a | V1B3152 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA List**

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | | 5.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone | ND | | 5.0 | 1.6 | ug/l | |
| 71-43-2 | Benzene | ND | 5.0 | 0.50 | 0.047 | ug/l | |
| 108-86-1 | Bromobenzene | ND | | 0.50 | 0.13 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | | 0.50 | 0.13 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | | 0.50 | 0.088 | ug/l | |
| 75-25-2 | Bromoform | ND | | 0.50 | 0.11 | ug/l | |
| 74-83-9 | Bromomethane | ND | | 0.50 | 0.11 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | | 0.50 | 0.11 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | | 0.50 | 0.12 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | | 0.50 | 0.062 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | | 0.50 | 0.10 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 100 | 0.50 | 0.046 | ug/l | |
| 75-00-3 | Chloroethane | ND | | 0.50 | 0.16 | ug/l | |
| 67-66-3 | Chloroform | ND | | 0.50 | 0.069 | ug/l | |
| 74-87-3 | Chloromethane | ND | | 0.50 | 0.095 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | | 0.50 | 0.069 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | | 0.50 | 0.048 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 5.0 | 0.50 | 0.083 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | | 0.50 | 0.067 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 7.0 | 0.50 | 0.14 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | | 0.50 | 0.095 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.20 | 1.0 | 0.22 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.050 | 0.50 | 0.082 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.0 | 0.50 | 0.11 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.0 | 0.50 | 0.080 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | | 0.50 | 0.11 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | | 0.50 | 0.17 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | | 0.50 | 0.075 | ug/l | |
| 74-95-3 | Dibromomethane | ND | | 0.50 | 0.11 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | | 1.0 | 0.10 | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | | 0.50 | 0.11 | ug/l | |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 611 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5593-4 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/03/12 |
| **Method:** | EPA 524.2 REV 4.1 SW846 5035 | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA List**

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| 95-50-1 | o-Dichlorobenzene | ND | 600 | 0.50 | 0.073 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 75 | 0.50 | 0.063 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 100 | 0.50 | 0.10 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 70 | 0.50 | 0.13 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 0.50 | 0.10 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 0.50 | 0.094 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | ND | | 0.50 | 0.062 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 700 | 0.50 | 0.14 | ug/l | |
| 637-92-3 | Ethyl tert Butyl Ether | ND | | 0.50 | 0.064 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | | 2.0 | 0.096 | ug/l | |
| 110-54-3 | Hexane | ND | | 0.50 | 0.28 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | | 2.0 | 0.37 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | | 0.50 | 0.11 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | | 0.50 | 0.053 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 5.0 | 0.50 | 0.11 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 0.50 | 0.068 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | | 2.0 | 0.47 | ug/l | |
| 91-20-3 | Naphthalene | ND | | 0.50 | 0.060 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | | 0.50 | 0.12 | ug/l | |
| 100-42-5 | Styrene | 0.12 | 100 | 0.50 | 0.058 | ug/l | J |
| 994-05-8 | tert-Amyl Methyl Ether | ND | | 0.50 | 0.050 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | | 0.50 | 0.097 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 200 | 0.50 | 0.059 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 0.50 | 0.041 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.0 | 0.50 | 0.075 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | | 0.50 | 0.053 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | | 0.50 | 0.20 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 70 | 0.50 | 0.073 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | | 0.50 | 0.12 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | | 0.50 | 0.091 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 5.0 | 0.50 | 0.12 | ug/l | |
| 108-88-3 | Toluene | ND | 1000 | 0.50 | 0.079 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 5.0 | 0.50 | 0.15 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | | 1.0 | 0.15 | ug/l | |
| 75-65-0 | Tertiary Butyl Alcohol | ND | | 5.0 | 2.4 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 2.0 | 0.50 | 0.12 | ug/l | |
| | m,p-Xylene | ND | | 1.0 | 0.18 | ug/l | |
| 95-47-6 | o-Xylene | ND | | 0.50 | 0.12 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 10000 | 0.50 | 0.12 | ug/l | |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 611 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5593-4 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/03/12 |
| **Method:** | EPA 524.2 REV 4.1 SW846 5035 | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 100% | | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 89% | | 77-115% |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 611 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5593-4 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV97994.D | 1 | 05/08/12 | XPL | n/a | n/a | GUV3864 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 81% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 611 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5593-4 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Y44683.D | 1 | 05/08/12 | CS | 05/04/12 | OP56760 | G2Y1835 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 55% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 55% | | 32-138% |
| 438-22-2 | 5a-Androstane | 61% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 621 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5593-5 | **Date Sampled:** | 04/30/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/03/12 |
| **Method:** | EPA 524.2 REV 4.1 SW846 5035 | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 1B67908.D | 1 | 05/04/12 | MFH | n/a | n/a | V1B3152 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA List**

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | | 5.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone | ND | | 5.0 | 1.6 | ug/l | |
| 71-43-2 | Benzene | ND | 5.0 | 0.50 | 0.047 | ug/l | |
| 108-86-1 | Bromobenzene | ND | | 0.50 | 0.13 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | | 0.50 | 0.13 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | | 0.50 | 0.088 | ug/l | |
| 75-25-2 | Bromoform | ND | | 0.50 | 0.11 | ug/l | |
| 74-83-9 | Bromomethane | ND | | 0.50 | 0.11 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | | 0.50 | 0.11 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | | 0.50 | 0.12 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | | 0.50 | 0.062 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | | 0.50 | 0.10 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 100 | 0.50 | 0.046 | ug/l | |
| 75-00-3 | Chloroethane | ND | | 0.50 | 0.16 | ug/l | |
| 67-66-3 | Chloroform | 0.52 | | 0.50 | 0.069 | ug/l | |
| 74-87-3 | Chloromethane | ND | | 0.50 | 0.095 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | | 0.50 | 0.069 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | | 0.50 | 0.048 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 5.0 | 0.50 | 0.083 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | | 0.50 | 0.067 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 7.0 | 0.50 | 0.14 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | | 0.50 | 0.095 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.20 | 1.0 | 0.22 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.050 | 0.50 | 0.082 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.0 | 0.50 | 0.11 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.0 | 0.50 | 0.080 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | | 0.50 | 0.11 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | | 0.50 | 0.17 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | | 0.50 | 0.075 | ug/l | |
| 74-95-3 | Dibromomethane | ND | | 0.50 | 0.11 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | | 1.0 | 0.10 | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | | 0.50 | 0.11 | ug/l | |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 621 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5593-5 | **Date Sampled:** | 04/30/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/03/12 |
| **Method:** | EPA 524.2 REV 4.1 SW846 5035 | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA List**

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| 95-50-1 | o-Dichlorobenzene | ND | 600 | 0.50 | 0.073 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 75 | 0.50 | 0.063 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 100 | 0.50 | 0.10 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 70 | 0.50 | 0.13 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 0.50 | 0.10 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 0.50 | 0.094 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | ND | | 0.50 | 0.062 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 700 | 0.50 | 0.14 | ug/l | |
| 637-92-3 | Ethyl tert Butyl Ether | ND | | 0.50 | 0.064 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | | 2.0 | 0.096 | ug/l | |
| 110-54-3 | Hexane | ND | | 0.50 | 0.28 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | | 2.0 | 0.37 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | | 0.50 | 0.11 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | | 0.50 | 0.053 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 5.0 | 0.50 | 0.11 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 0.50 | 0.068 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | | 2.0 | 0.47 | ug/l | |
| 91-20-3 | Naphthalene | ND | | 0.50 | 0.060 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | | 0.50 | 0.12 | ug/l | |
| 100-42-5 | Styrene | ND | 100 | 0.50 | 0.058 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | | 0.50 | 0.050 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | | 0.50 | 0.097 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 200 | 0.50 | 0.059 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 0.50 | 0.041 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.0 | 0.50 | 0.075 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | | 0.50 | 0.053 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | | 0.50 | 0.20 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 70 | 0.50 | 0.073 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | | 0.50 | 0.12 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | | 0.50 | 0.091 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 5.0 | 0.50 | 0.12 | ug/l | |
| 108-88-3 | Toluene | ND | 1000 | 0.50 | 0.079 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 5.0 | 0.50 | 0.15 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | | 1.0 | 0.15 | ug/l | |
| 75-65-0 | Tertiary Butyl Alcohol | ND | | 5.0 | 2.4 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 2.0 | 0.50 | 0.12 | ug/l | |
| | m,p-Xylene | ND | | 1.0 | 0.18 | ug/l | |
| 95-47-6 | o-Xylene | ND | | 0.50 | 0.12 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 10000 | 0.50 | 0.12 | ug/l | |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 621 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5593-5 | **Date Sampled:** | 04/30/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/03/12 |
| **Method:** | EPA 524.2 REV 4.1 SW846 5035 | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 97% | | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 88% | | 77-115% |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 621 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5593-5 | **Date Sampled:** | 04/30/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV97995.D | 1 | 05/08/12 | XPL | n/a | n/a | GUV3864 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 81% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 621 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5593-5 | **Date Sampled:** | 04/30/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Y44684.D | 1 | 05/08/12 | CS | 05/04/12 | OP56760 | G2Y1835 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 940 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | | 0.11 | 0.0037 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 89% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 82% | | 32-138% |
| 438-22-2 | 5a-Androstane | 92% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 651 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5593-6 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/03/12 |
| **Method:** | EPA 524.2 REV 4.1 SW846 5035 | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 1B67909.D | 1 | 05/04/12 | MFH | n/a | n/a | V1B3152 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA List**

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | | 5.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone | ND | | 5.0 | 1.6 | ug/l | |
| 71-43-2 | Benzene | ND | 5.0 | 0.50 | 0.047 | ug/l | |
| 108-86-1 | Bromobenzene | ND | | 0.50 | 0.13 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | | 0.50 | 0.13 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | | 0.50 | 0.088 | ug/l | |
| 75-25-2 | Bromoform | ND | | 0.50 | 0.11 | ug/l | |
| 74-83-9 | Bromomethane | ND | | 0.50 | 0.11 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | | 0.50 | 0.11 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | | 0.50 | 0.12 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | | 0.50 | 0.062 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | | 0.50 | 0.10 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 100 | 0.50 | 0.046 | ug/l | |
| 75-00-3 | Chloroethane | ND | | 0.50 | 0.16 | ug/l | |
| 67-66-3 | Chloroform | 0.23 | | 0.50 | 0.069 | ug/l | J |
| 74-87-3 | Chloromethane | ND | | 0.50 | 0.095 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | | 0.50 | 0.069 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | | 0.50 | 0.048 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 5.0 | 0.50 | 0.083 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | | 0.50 | 0.067 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 7.0 | 0.50 | 0.14 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | | 0.50 | 0.095 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.20 | 1.0 | 0.22 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.050 | 0.50 | 0.082 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.0 | 0.50 | 0.11 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.0 | 0.50 | 0.080 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | | 0.50 | 0.11 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | | 0.50 | 0.17 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | | 0.50 | 0.075 | ug/l | |
| 74-95-3 | Dibromomethane | ND | | 0.50 | 0.11 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | | 1.0 | 0.10 | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | | 0.50 | 0.11 | ug/l | |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 651 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5593-6 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/03/12 |
| **Method:** | EPA 524.2 REV 4.1 SW846 5035 | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA List**

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| 95-50-1 | o-Dichlorobenzene | ND | 600 | 0.50 | 0.073 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 75 | 0.50 | 0.063 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 100 | 0.50 | 0.10 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 70 | 0.50 | 0.13 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 0.50 | 0.10 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 0.50 | 0.094 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | ND | | 0.50 | 0.062 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 700 | 0.50 | 0.14 | ug/l | |
| 637-92-3 | Ethyl tert Butyl Ether | ND | | 0.50 | 0.064 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | | 2.0 | 0.096 | ug/l | |
| 110-54-3 | Hexane | ND | | 0.50 | 0.28 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | | 2.0 | 0.37 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | | 0.50 | 0.11 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | | 0.50 | 0.053 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 5.0 | 0.50 | 0.11 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 0.50 | 0.068 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | | 2.0 | 0.47 | ug/l | |
| 91-20-3 | Naphthalene | ND | | 0.50 | 0.060 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | | 0.50 | 0.12 | ug/l | |
| 100-42-5 | Styrene | ND | 100 | 0.50 | 0.058 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | | 0.50 | 0.050 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | | 0.50 | 0.097 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 200 | 0.50 | 0.059 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 0.50 | 0.041 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.0 | 0.50 | 0.075 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | | 0.50 | 0.053 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | | 0.50 | 0.20 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 70 | 0.50 | 0.073 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | | 0.50 | 0.12 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | | 0.50 | 0.091 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 5.0 | 0.50 | 0.12 | ug/l | |
| 108-88-3 | Toluene | ND | 1000 | 0.50 | 0.079 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 5.0 | 0.50 | 0.15 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | | 1.0 | 0.15 | ug/l | |
| 75-65-0 | Tertiary Butyl Alcohol | ND | | 5.0 | 2.4 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 2.0 | 0.50 | 0.12 | ug/l | |
| | m,p-Xylene | ND | | 1.0 | 0.18 | ug/l | |
| 95-47-6 | o-Xylene | ND | | 0.50 | 0.12 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 10000 | 0.50 | 0.12 | ug/l | |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 651 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5593-6 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/03/12 |
| **Method:** | EPA 524.2 REV 4.1 SW846 5035 | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 98% | | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 88% | | 77-115% |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 651 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5593-6 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV97996.D | 1 | 05/08/12 | XPL | n/a | n/a | GUV3864 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 82% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 651 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5593-6 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Y44685.D | 1 | 05/08/12 | CS | 05/04/12 | OP56760 | G2Y1835 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 940 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | | 0.11 | 0.0037 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 86% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 73% | | 32-138% |
| 438-22-2 | 5a-Androstane | 87% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 660 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5593-7 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/03/12 |
| **Method:** | EPA 524.2 REV 4.1 SW846 5035 | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 1B67910.D | 1 | 05/04/12 | MFH | n/a | n/a | V1B3152 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA List**

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | | 5.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone | ND | | 5.0 | 1.6 | ug/l | |
| 71-43-2 | Benzene | ND | 5.0 | 0.50 | 0.047 | ug/l | |
| 108-86-1 | Bromobenzene | ND | | 0.50 | 0.13 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | | 0.50 | 0.13 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | | 0.50 | 0.088 | ug/l | |
| 75-25-2 | Bromoform | ND | | 0.50 | 0.11 | ug/l | |
| 74-83-9 | Bromomethane | ND | | 0.50 | 0.11 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | | 0.50 | 0.11 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | | 0.50 | 0.12 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | | 0.50 | 0.062 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | | 0.50 | 0.10 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 100 | 0.50 | 0.046 | ug/l | |
| 75-00-3 | Chloroethane | ND | | 0.50 | 0.16 | ug/l | |
| 67-66-3 | Chloroform | ND | | 0.50 | 0.069 | ug/l | |
| 74-87-3 | Chloromethane | ND | | 0.50 | 0.095 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | | 0.50 | 0.069 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | | 0.50 | 0.048 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 5.0 | 0.50 | 0.083 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | | 0.50 | 0.067 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 7.0 | 0.50 | 0.14 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | | 0.50 | 0.095 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.20 | 1.0 | 0.22 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.050 | 0.50 | 0.082 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | 0.18 | 5.0 | 0.50 | 0.11 | ug/l | J |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.0 | 0.50 | 0.080 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | | 0.50 | 0.11 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | | 0.50 | 0.17 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | | 0.50 | 0.075 | ug/l | |
| 74-95-3 | Dibromomethane | ND | | 0.50 | 0.11 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | | 1.0 | 0.10 | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | | 0.50 | 0.11 | ug/l | |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 660 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5593-7 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/03/12 |
| **Method:** | EPA 524.2 REV 4.1 SW846 5035 | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA List**

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| 95-50-1 | o-Dichlorobenzene | ND | 600 | 0.50 | 0.073 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 75 | 0.50 | 0.063 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 100 | 0.50 | 0.10 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 70 | 0.50 | 0.13 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 0.50 | 0.10 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 0.50 | 0.094 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | ND | | 0.50 | 0.062 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 700 | 0.50 | 0.14 | ug/l | |
| 637-92-3 | Ethyl tert Butyl Ether | ND | | 0.50 | 0.064 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | | 2.0 | 0.096 | ug/l | |
| 110-54-3 | Hexane | ND | | 0.50 | 0.28 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | | 2.0 | 0.37 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | | 0.50 | 0.11 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | | 0.50 | 0.053 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 5.0 | 0.50 | 0.11 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 0.50 | 0.068 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | | 2.0 | 0.47 | ug/l | |
| 91-20-3 | Naphthalene | ND | | 0.50 | 0.060 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | | 0.50 | 0.12 | ug/l | |
| 100-42-5 | Styrene | ND | 100 | 0.50 | 0.058 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | | 0.50 | 0.050 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | | 0.50 | 0.097 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 200 | 0.50 | 0.059 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 0.50 | 0.041 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.0 | 0.50 | 0.075 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | | 0.50 | 0.053 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | | 0.50 | 0.20 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 70 | 0.50 | 0.073 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | | 0.50 | 0.12 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | | 0.50 | 0.091 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 5.0 | 0.50 | 0.12 | ug/l | |
| 108-88-3 | Toluene | ND | 1000 | 0.50 | 0.079 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 5.0 | 0.50 | 0.15 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | | 1.0 | 0.15 | ug/l | |
| 75-65-0 | Tertiary Butyl Alcohol | ND | | 5.0 | 2.4 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 2.0 | 0.50 | 0.12 | ug/l | |
| | m,p-Xylene | ND | | 1.0 | 0.18 | ug/l | |
| 95-47-6 | o-Xylene | ND | | 0.50 | 0.12 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 10000 | 0.50 | 0.12 | ug/l | |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 660 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5593-7 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/03/12 |
| **Method:** | EPA 524.2 REV 4.1 SW846 5035 | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 98% | | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 88% | | 77-115% |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 660 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5593-7 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV97997.D | 1 | 05/08/12 | XPL | n/a | n/a | GUV3864 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 80% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 660 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5593-7 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Y44686.D | 1 | 05/08/12 | CS | 05/04/12 | OP56760 | G2Y1835 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 88% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 76% | | 32-138% |
| 438-22-2 | 5a-Androstane | 91% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 661 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5593-8 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/03/12 |
| **Method:** | EPA 524.2 REV 4.1 SW846 5035 | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 1B67903.D | 1 | 05/04/12 | MFH | n/a | n/a | V1B3152 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA List**

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | | 5.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone | ND | | 5.0 | 1.6 | ug/l | |
| 71-43-2 | Benzene | ND | 5.0 | 0.50 | 0.047 | ug/l | |
| 108-86-1 | Bromobenzene | ND | | 0.50 | 0.13 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | | 0.50 | 0.13 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | | 0.50 | 0.088 | ug/l | |
| 75-25-2 | Bromoform | ND | | 0.50 | 0.11 | ug/l | |
| 74-83-9 | Bromomethane | ND | | 0.50 | 0.11 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | | 0.50 | 0.11 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | | 0.50 | 0.12 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | | 0.50 | 0.062 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | | 0.50 | 0.10 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 100 | 0.50 | 0.046 | ug/l | |
| 75-00-3 | Chloroethane | ND | | 0.50 | 0.16 | ug/l | |
| 67-66-3 | Chloroform | 0.22 | | 0.50 | 0.069 | ug/l | J |
| 74-87-3 | Chloromethane | ND | | 0.50 | 0.095 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | | 0.50 | 0.069 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | | 0.50 | 0.048 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 5.0 | 0.50 | 0.083 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | | 0.50 | 0.067 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 7.0 | 0.50 | 0.14 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | | 0.50 | 0.095 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.20 | 1.0 | 0.22 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.050 | 0.50 | 0.082 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | 0.14 | 5.0 | 0.50 | 0.11 | ug/l | J |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.0 | 0.50 | 0.080 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | | 0.50 | 0.11 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | | 0.50 | 0.17 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | | 0.50 | 0.075 | ug/l | |
| 74-95-3 | Dibromomethane | ND | | 0.50 | 0.11 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | | 1.0 | 0.10 | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | | 0.50 | 0.11 | ug/l | |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 661 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5593-8 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/03/12 |
| **Method:** | EPA 524.2 REV 4.1 SW846 5035 | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA List**

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| 95-50-1 | o-Dichlorobenzene | ND | 600 | 0.50 | 0.073 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 75 | 0.50 | 0.063 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 100 | 0.50 | 0.10 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 70 | 0.50 | 0.13 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 0.50 | 0.10 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 0.50 | 0.094 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | ND | | 0.50 | 0.062 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 700 | 0.50 | 0.14 | ug/l | |
| 637-92-3 | Ethyl tert Butyl Ether | ND | | 0.50 | 0.064 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | | 2.0 | 0.096 | ug/l | |
| 110-54-3 | Hexane | ND | | 0.50 | 0.28 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | | 2.0 | 0.37 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | | 0.50 | 0.11 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | | 0.50 | 0.053 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 5.0 | 0.50 | 0.11 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 0.19 | | 0.50 | 0.068 | ug/l | J |
| 108-10-1 | 4-Methyl-2-pentanone | ND | | 2.0 | 0.47 | ug/l | |
| 91-20-3 | Naphthalene | ND | | 0.50 | 0.060 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | | 0.50 | 0.12 | ug/l | |
| 100-42-5 | Styrene | ND | 100 | 0.50 | 0.058 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | | 0.50 | 0.050 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | | 0.50 | 0.097 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 200 | 0.50 | 0.059 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 0.50 | 0.041 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.0 | 0.50 | 0.075 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | | 0.50 | 0.053 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | | 0.50 | 0.20 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 70 | 0.50 | 0.073 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | | 0.50 | 0.12 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | | 0.50 | 0.091 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 5.0 | 0.50 | 0.12 | ug/l | |
| 108-88-3 | Toluene | ND | 1000 | 0.50 | 0.079 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 5.0 | 0.50 | 0.15 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | | 1.0 | 0.15 | ug/l | |
| 75-65-0 | Tertiary Butyl Alcohol | ND | | 5.0 | 2.4 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 2.0 | 0.50 | 0.12 | ug/l | |
| | m,p-Xylene | ND | | 1.0 | 0.18 | ug/l | |
| 95-47-6 | o-Xylene | ND | | 0.50 | 0.12 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 10000 | 0.50 | 0.12 | ug/l | |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 661 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5593-8 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/03/12 |
| **Method:** | EPA 524.2 REV 4.1 SW846 5035 | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 98% | | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 89% | | 77-115% |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 661 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5593-8 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV97998.D | 1 | 05/08/12 | XPL | n/a | n/a | GUV3864 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 81% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 661 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5593-8 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Y44689.D | 1 | 05/08/12 | CS | 05/04/12 | OP56760 | G2Y1835 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 87% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 75% | | 32-138% |
| 438-22-2 | 5a-Androstane | 89% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 670 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5593-9 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/03/12 |
| **Method:** | EPA 524.2 REV 4.1 SW846 5035 | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 1B67904.D | 1 | 05/04/12 | MFH | n/a | n/a | V1B3152 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA List**

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | | 5.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone | ND | | 5.0 | 1.6 | ug/l | |
| 71-43-2 | Benzene | ND | 5.0 | 0.50 | 0.047 | ug/l | |
| 108-86-1 | Bromobenzene | ND | | 0.50 | 0.13 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | | 0.50 | 0.13 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | | 0.50 | 0.088 | ug/l | |
| 75-25-2 | Bromoform | ND | | 0.50 | 0.11 | ug/l | |
| 74-83-9 | Bromomethane | ND | | 0.50 | 0.11 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | | 0.50 | 0.11 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | | 0.50 | 0.12 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | | 0.50 | 0.062 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | | 0.50 | 0.10 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 100 | 0.50 | 0.046 | ug/l | |
| 75-00-3 | Chloroethane | ND | | 0.50 | 0.16 | ug/l | |
| 67-66-3 | Chloroform | ND | | 0.50 | 0.069 | ug/l | |
| 74-87-3 | Chloromethane | ND | | 0.50 | 0.095 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | | 0.50 | 0.069 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | | 0.50 | 0.048 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 5.0 | 0.50 | 0.083 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | | 0.50 | 0.067 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 7.0 | 0.50 | 0.14 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | | 0.50 | 0.095 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.20 | 1.0 | 0.22 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.050 | 0.50 | 0.082 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | 0.14 | 5.0 | 0.50 | 0.11 | ug/l | J |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.0 | 0.50 | 0.080 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | | 0.50 | 0.11 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | | 0.50 | 0.17 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | | 0.50 | 0.075 | ug/l | |
| 74-95-3 | Dibromomethane | ND | | 0.50 | 0.11 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | | 1.0 | 0.10 | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | | 0.50 | 0.11 | ug/l | |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 670 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5593-9 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/03/12 |
| **Method:** | EPA 524.2 REV 4.1 SW846 5035 | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA List**

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| 95-50-1 | o-Dichlorobenzene | ND | 600 | 0.50 | 0.073 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 75 | 0.50 | 0.063 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 100 | 0.50 | 0.10 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 70 | 0.50 | 0.13 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 0.50 | 0.10 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 0.50 | 0.094 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | ND | | 0.50 | 0.062 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 700 | 0.50 | 0.14 | ug/l | |
| 637-92-3 | Ethyl tert Butyl Ether | ND | | 0.50 | 0.064 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | | 2.0 | 0.096 | ug/l | |
| 110-54-3 | Hexane | ND | | 0.50 | 0.28 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | | 2.0 | 0.37 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | | 0.50 | 0.11 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | | 0.50 | 0.053 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 5.0 | 0.50 | 0.11 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 0.31 | | 0.50 | 0.068 | ug/l | J |
| 108-10-1 | 4-Methyl-2-pentanone | ND | | 2.0 | 0.47 | ug/l | |
| 91-20-3 | Naphthalene | ND | | 0.50 | 0.060 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | | 0.50 | 0.12 | ug/l | |
| 100-42-5 | Styrene | ND | 100 | 0.50 | 0.058 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | | 0.50 | 0.050 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | | 0.50 | 0.097 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 200 | 0.50 | 0.059 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 0.50 | 0.041 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.0 | 0.50 | 0.075 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | | 0.50 | 0.053 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | | 0.50 | 0.20 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 70 | 0.50 | 0.073 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | | 0.50 | 0.12 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | | 0.50 | 0.091 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 5.0 | 0.50 | 0.12 | ug/l | |
| 108-88-3 | Toluene | ND | 1000 | 0.50 | 0.079 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 5.0 | 0.50 | 0.15 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | | 1.0 | 0.15 | ug/l | |
| 75-65-0 | Tertiary Butyl Alcohol | ND | | 5.0 | 2.4 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 2.0 | 0.50 | 0.12 | ug/l | |
| | m,p-Xylene | ND | | 1.0 | 0.18 | ug/l | |
| 95-47-6 | o-Xylene | ND | | 0.50 | 0.12 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 10000 | 0.50 | 0.12 | ug/l | |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 670 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5593-9 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/03/12 |
| **Method:** | EPA 524.2 REV 4.1 SW846 5035 | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 100% | | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 90% | | 77-115% |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 670 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5593-9 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV97999.D | 1 | 05/08/12 | XPL | n/a | n/a | GUV3864 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 81% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 670 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5593-9 | **Date Sampled:** | 05/01/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/03/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Y44690.D | 1 | 05/08/12 | CS | 05/04/12 | OP56760 | G2Y1835 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 81% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 68% | | 32-138% |
| 438-22-2 | 5a-Androstane | 83% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey

4

# Misc. Forms

## Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

DW

# Shell Oil Products Chain Of Custody Record

URS

**LAB (LOCATION)**
- [x] ACCUTEST ( )
- [ ] CALSCIENCE ( )
- [ ] TESTAMERICA ( )
- [ ] Other ( )

Lab Vendor # 1813640 (Accutest)

**Please Check Appropriate Box:**
- [x] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [ ] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER

Print Bill To Contact Name: Adriane Rogers

PO #

INCIDENT # (ENV SERVICES): 9 7 4 3 6 9 7 7

SAP #: 1 3 7 6 7 5

[ ] CHECK IF NO INCIDENT # APPLIES

DATE: 5/02/2012

Page 1 of 2

SAMPLING COMPANY: URS CORPORATION

LOG CODE:

SITE ADDRESS: Street and City: 15541 New Hampshire Avenue, Silver Spring

State: MD

GLOBAL ID NO.:

ADDRESS: 12420 Milestone Center Drive Suite 150, Germantown, MD 20876

EDF DELIVERABLE TO (Name, Company, Office Location): Adriane Rogers

PHONE NO.: 301-820-3241

E-MAIL: adriane.rogers@urs.com

CONSULTANT PROJECT NO.: 137675

PROJECT CONTACT (Hardcopy or PDF Report to): Adriane Rogers

TELEPHONE: 301-820-3000

FAX: 301-820-3409

Bill To Contact E-MAIL: adriane.rogers@urs.com

SAMPLER NAME(S) (Print): DIRON BAKER

LAB USE ONLY: JB5593

TURNAROUND TIME (CALENDAR DAYS):
- [x] STANDARD (14 DAY)
- [ ] 5 DAYS
- [ ] 3 DAYS
- [ ] 2 DAYS
- [ ] 24 HOURS
- [ ] RESULTS NEEDED ON WEEKEND

- [ ] LA - RWQCB REPORT FORMAT
- [ ] UST AGENCY:

DELIVERABLES:
- [ ] LEVEL 1
- [x] LEVEL 2
- [ ] LEVEL 3
- [ ] LEVEL 4
- [ ] OTHER (SPECIFY)

TEMPERATURE ON RECEIPT C°: Cooler #1: 2.0 C; Cooler #2; Cooler #3

SPECIAL INSTRUCTIONS OR NOTES: SEAL 972 INTACT

FEDEX # 8996 7737 5365

- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [ ] RECEIPT VERIFICATION REQUESTED
- [ ] PROVIDE LEDD DISK

REQUESTED ANALYSIS

| LAB USE ONLY | Field Sample Identification | SAMPLING DATE | SAMPLING TIME | MATRIX | PRESERVATIVE HCL | HNO3 | H2SO4 | NONE | OTHER | NO. OF CONT. | Full List VOCs + oxy 5 (524.2) | TPH - GRO | TPH - DRO 8015 | Container PID Readings or Laboratory Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 600 Bryants Nursery | 5/01 | 10:00 | DW | x | | | | | 7 | x | x | x | UTC41, 2154 |
| 2 | 601 Bryants Nursery | 5/02 | 09:30 | DW | x | | | | | 7 | x | x | x | |
| 3 | 610 Bryants Nursery | 5/01 | 11:20 | DW | x | | | | | 7 | x | x | x | |
| 4 | 611 Bryants Nursery | 5/01 | 11:05 | DW | x | | | | | 7 | x | x | x | |
| 5 | 621 Bryants Nursery | 4/30 | 18:00 | DW | x | | | | | 7 | x | x | x | |
| DHB | ~~640 Bryants Nursery~~ DHB | ~~5/01~~ | ~~12:00~~ | ~~DW~~ | ~~x~~ | | | | | ~~7~~ | ~~x~~ | ~~x~~ | ~~x~~ | DHB |
| DHB | ~~650 Bryants Nursery~~ DHB | ~~5/01~~ | ~~17:30~~ | ~~DW~~ | ~~x~~ | | | | | ~~7~~ | ~~x~~ | ~~x~~ | ~~x~~ | DHB |
| 6 | 651 Bryants Nursery | 5/01 | 09:00 | DW | x | | | | | 7 | x | x | x | |
| 7 | 660 Bryants Nursery | 5/01 | 09:30 | DW | x | | | | | 7 | x | x | x | |
| 8 | 661 Bryants Nursery | 5/01 | 08:00 | DW | x | | | | | 7 | x | x | x | No Trip Blank Received |

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
|---|---|---|---|
| | FEDEX | | |
| FEDEX | | 5/3/12 | 0745 |
| | | | |

05/2/06 Revision

2A

ALL SAMPLES RECEIVED PRESERVED AS APPLICABLE

4.1

4

**JB5593: Chain of Custody**

**Page 1 of 4**

DW

# Shell Oil Products Chain Of Custody Record

URS

**LAB (LOCATION)**
- [x] ACCUTEST ( )
- [ ] CALSCIENCE ( )
- [ ] TESTAMERICA ( )
- [ ] Other ( )

Lab Vendor # 1813640 (Accutest)

**Please Check Appropriate Box:**
- [x] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [ ] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER

**Print Bill To Contact Name:** Adriane Rogers

**INCIDENT # (ENV SERVICES):** 9 7 4 3 6 9 7 7

[ ] CHECK IF NO INCIDENT # APPLIES

DATE: 5/02/2012

Page 2 of 2

**PO #**

**SAP #** 1 3 7 6 7 5

SAMPLING COMPANY: URS CORPORATION

LOG CODE:

SITE ADDRESS: Street and City: 15541 New Hampshire Avenue, Silver Spring

State: MD

GLOBAL ID NO.:

ADDRESS: 12420 Milestone Center Drive Suite 150, Germantown, MD 20876

EDF DELIVERABLE TO (Name, Company, Office Location): Adriane Rogers

PHONE NO.: 301-820-3241

E-MAIL: adriane.rogers@urs.com

CONSULTANT PROJECT NO.: 137675

PROJECT CONTACT (Hardcopy or PDF Report to): Adriane Rogers

TELEPHONE: 301-820-3000

FAX: 301-820-3409

Bill To Contact E-MAIL: adriane.rogers@urs.com

SAMPLER NAME(S) (Print): Byron Baker

LAB USE ONLY: JB5593

TURNAROUND TIME (CALENDAR DAYS):
- [x] STANDARD (14 DAY)
- [ ] 5 DAYS
- [ ] 3 DAYS
- [ ] 2 DAYS
- [ ] 24 HOURS
- [ ] RESULTS NEEDED ON WEEKEND

- [ ] LA - RWQCB REPORT FORMAT
- [ ] UST AGENCY:

DELIVERABLES: [ ] LEVEL 1 [x] LEVEL 2 [ ] LEVEL 3 [ ] LEVEL 4 [ ] OTHER (SPECIFY)

TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

**SPECIAL INSTRUCTIONS OR NOTES :**
- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [ ] RECEIPT VERIFICATION REQUESTED
- [ ] PROVIDE LEDD DISK

**REQUESTED ANALYSIS**

| LAB USE ONLY | Field Sample Identification | SAMPLING DATE | SAMPLING TIME | MATRIX | PRESERVATIVE HCL | HNO3 | H2SO4 | NONE | OTHER | NO. OF CONT. | Full List VOCs + oxy 5 (524.2) | TPH-GRO 8015 | TPH-DRO 8015 | Container PID Readings or Laboratory Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | 670 Bryants Nursery | 5/01 | 0830 | DW | x | | | | | 7 | x | x | x | |
| | ~~700 Bryants Nursery~~ | 1/5 | | | | | | | | 7 | | | | |
| | ~~701 Bryants Nursery~~ | 1/5 | | | | | | | | 7 | | | | |

**FIELD NOTES:**

TEMPERATURE ON RECEIPT C°

Container PID Readings or Laboratory Notes

| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
|---|---|---|---|
| | Fax | | |
| Fax | | 5/3/12 | 0745 |
| | | | |

05/2/06 Revision

**JB5593: Chain of Custody**
**Page 2 of 4**

# Accutest Laboratories Sample Receipt Summary

**Accutest Job Number:** JB5593 **Client:** URS-MD **Project:** SHELL-S.SPRING

**Date / Time Received:** 5/3/2012 0745 **Delivery Method:** FedEx **Airbill #'s:** 899677375365

**Cooler Temps (Initial/Adjusted):** #1: (2/2); 0

| Cooler Security | Y | or N | | Y | or N |
|---|---|---|---|---|---|
| 1. Custody Seals Present: | ☑ | ☐ | 3. COC Present: | ☑ | ☐ |
| 2. Custody Seals Intact: | ☑ | ☐ | 4. Smpl Dates/Time OK | ☐ | ☑ |

| Cooler Temperature | Y | or N |
|---|---|---|
| 1. Temp criteria achieved: | ☑ | ☐ |
| 2. Cooler temp verification: | Bar Therm | |
| 3. Cooler media: | Ice (Bag) | |
| 4. No, Coolers | 1 | |

| Quality Control Preservation | Y | N | N/A |
|---|---|---|---|
| 1. Trip Blank present / cooler: | ☐ | ☑ | ☐ |
| 2. Trip Blank listed on COC: | ☐ | ☑ | ☐ |
| 3. Samples preserved properly: | ☑ | ☐ | |
| 4. VOCs headspace free: | ☑ | ☐ | ☐ |

| Sample Integrity - Documentation | Y | or N |
|---|---|---|
| 1. Sample labels present on bottles: | ☑ | ☐ |
| 2. Container labeling complete: | ☑ | ☐ |
| 3. Sample container label / COC agree: | ☐ | ☑ |

| Sample Integrity - Condition | Y | or N |
|---|---|---|
| 1. Sample recvd within HT: | ☑ | ☐ |
| 2. All containers accounted for: | ☑ | ☐ |
| 3. Condition of sample: | Intact | |

| Sample Integrity - Instructions | Y | N | N/A |
|---|---|---|---|
| 1. Analysis requested is clear: | ☑ | ☐ | |
| 2. Bottles received for unspecified tests | ☐ | ☑ | |
| 3. Sufficient volume recvd for analysis: | ☑ | ☐ | |
| 4. Compositing instructions clear: | ☐ | ☐ | ☑ |
| 5. Filtering instructions clear: | ☐ | ☐ | ☑ |

Comments -8 LABEL TIME 0820 NOT 0800
-9 LABEL TIME 0835 NOT 0830

ID AND DATES OK

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com



**JB5593: Chain of Custody**
**Page 3 of 4**

# Sample Receipt Summary - Problem Resolution

**Accutest Job Number:** JB5593

**CSR:** Michelle

**Response Date:** 5/7/2012

**Response:** -8, please use label time
-9, please use label time

Per Cory Lavoie



Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

New Jersey

ACCUTEST LABORATORIES



# GC/MS Volatiles

## QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

# Method Blank Summary



**Job Number:** JB5593
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V1B3152-MB1 | 1B67900.D | 1 | 05/04/12 | MFH | n/a | n/a | V1B3152 |



**The QC reported here applies to the following samples:** **Method:** EPA 524.2 REV 4.1

JB5593-1, JB5593-2, JB5593-3, JB5593-4, JB5593-5, JB5593-6, JB5593-7, JB5593-8, JB5593-9

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 5.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone | ND | 5.0 | 1.6 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.047 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 0.50 | 0.13 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 0.50 | 0.13 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.088 | ug/l | |
| 75-25-2 | Bromoform | ND | 0.50 | 0.11 | ug/l | |
| 74-83-9 | Bromomethane | ND | 0.50 | 0.11 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 0.50 | 0.11 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 0.50 | 0.12 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 0.50 | 0.062 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 0.50 | 0.10 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 0.50 | 0.046 | ug/l | |
| 75-00-3 | Chloroethane | ND | 0.50 | 0.16 | ug/l | |
| 67-66-3 | Chloroform | ND | 0.50 | 0.069 | ug/l | |
| 74-87-3 | Chloromethane | ND | 0.50 | 0.095 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 0.50 | 0.069 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 0.50 | 0.048 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.083 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.50 | 0.067 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.50 | 0.14 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 0.50 | 0.095 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.0 | 0.22 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.50 | 0.082 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.11 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.50 | 0.080 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | 0.50 | 0.11 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 0.50 | 0.17 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.075 | ug/l | |
| 74-95-3 | Dibromomethane | ND | 0.50 | 0.11 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 1.0 | 0.10 | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | 0.50 | 0.11 | ug/l | |
| 95-50-1 | o-Dichlorobenzene | ND | 0.50 | 0.073 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 0.50 | 0.063 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.50 | 0.10 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.50 | 0.13 | ug/l | |

# Method Blank Summary



**Job Number:** JB5593
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V1B3152-MB1 | 1B67900.D | 1 | 05/04/12 | MFH | n/a | n/a | V1B3152 |



**The QC reported here applies to the following samples:** **Method:** EPA 524.2 REV 4.1

JB5593-1, JB5593-2, JB5593-3, JB5593-4, JB5593-5, JB5593-6, JB5593-7, JB5593-8, JB5593-9

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.10 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.094 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | ND | 0.50 | 0.062 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 0.50 | 0.14 | ug/l | |
| 637-92-3 | Ethyl tert Butyl Ether | ND | 0.50 | 0.064 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 2.0 | 0.096 | ug/l | |
| 110-54-3 | Hexane | ND | 0.50 | 0.28 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 2.0 | 0.37 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 0.50 | 0.11 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 0.50 | 0.053 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 0.50 | 0.11 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.50 | 0.068 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 2.0 | 0.47 | ug/l | |
| 91-20-3 | Naphthalene | ND | 0.50 | 0.060 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 0.50 | 0.12 | ug/l | |
| 100-42-5 | Styrene | ND | 0.50 | 0.058 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 0.50 | 0.050 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 0.50 | 0.097 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.50 | 0.059 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.041 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.50 | 0.075 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 0.50 | 0.053 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 0.50 | 0.20 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.50 | 0.073 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.50 | 0.12 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.50 | 0.091 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 0.50 | 0.12 | ug/l | |
| 108-88-3 | Toluene | ND | 0.50 | 0.079 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 0.50 | 0.15 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 1.0 | 0.15 | ug/l | |
| 75-65-0 | Tertiary Butyl Alcohol | ND | 5.0 | 2.4 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 0.50 | 0.12 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.18 | ug/l | |
| 95-47-6 | o-Xylene | ND | 0.50 | 0.12 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 0.50 | 0.12 | ug/l | |

# Method Blank Summary



**Job Number:** JB5593
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V1B3152-MB1 | 1B67900.D | 1 | 05/04/12 | MFH | n/a | n/a | V1B3152 |

**The QC reported here applies to the following samples:** **Method:** EPA 524.2 REV 4.1

JB5593-1, JB5593-2, JB5593-3, JB5593-4, JB5593-5, JB5593-6, JB5593-7, JB5593-8, JB5593-9

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 100% | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 93% | 77-115% |

# Blank Spike Summary



**Job Number:** JB5593
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V1B3152-BS | 1B67901.D | 1 | 05/04/12 | MFH | n/a | n/a | V1B3152 |



**The QC reported here applies to the following samples:** **Method:** EPA 524.2 REV 4.1

JB5593-1, JB5593-2, JB5593-3, JB5593-4, JB5593-5, JB5593-6, JB5593-7, JB5593-8, JB5593-9

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | 20 | 21.2 | 106 | 70-130 |
| 78-93-3 | 2-Butanone | 20 | 22.5 | 113 | 70-130 |
| 71-43-2 | Benzene | 5 | 5.2 | 104 | 70-130 |
| 108-86-1 | Bromobenzene | 5 | 5.0 | 100 | 70-130 |
| 74-97-5 | Bromochloromethane | 5 | 5.4 | 108 | 70-130 |
| 75-27-4 | Bromodichloromethane | 5 | 5.0 | 100 | 70-130 |
| 75-25-2 | Bromoform | 5 | 4.8 | 96 | 70-130 |
| 74-83-9 | Bromomethane | 2 | 2.1 | 105 | 70-130 |
| 104-51-8 | n-Butylbenzene | 5 | 4.7 | 94 | 70-130 |
| 135-98-8 | sec-Butylbenzene | 5 | 4.7 | 94 | 70-130 |
| 98-06-6 | tert-Butylbenzene | 5 | 4.5 | 90 | 70-130 |
| 75-15-0 | Carbon disulfide | 5 | 5.2 | 104 | 70-130 |
| 108-90-7 | Chlorobenzene | 5 | 4.9 | 98 | 70-130 |
| 75-00-3 | Chloroethane | 2 | 2.1 | 105 | 70-130 |
| 67-66-3 | Chloroform | 5 | 5.2 | 104 | 70-130 |
| 74-87-3 | Chloromethane | 2 | 2.0 | 100 | 70-130 |
| 95-49-8 | o-Chlorotoluene | 5 | 5.0 | 100 | 70-130 |
| 106-43-4 | p-Chlorotoluene | 5 | 4.8 | 96 | 70-130 |
| 56-23-5 | Carbon tetrachloride | 5 | 5.3 | 106 | 70-130 |
| 75-34-3 | 1,1-Dichloroethane | 5 | 5.2 | 104 | 70-130 |
| 75-35-4 | 1,1-Dichloroethylene | 5 | 5.1 | 102 | 70-130 |
| 563-58-6 | 1,1-Dichloropropene | 5 | 5.2 | 104 | 70-130 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 5 | 4.9 | 98 | 70-130 |
| 106-93-4 | 1,2-Dibromoethane | 5 | 5.0 | 100 | 70-130 |
| 107-06-2 | 1,2-Dichloroethane | 5 | 5.2 | 104 | 70-130 |
| 78-87-5 | 1,2-Dichloropropane | 5 | 5.2 | 104 | 70-130 |
| 142-28-9 | 1,3-Dichloropropane | 5 | 5.1 | 102 | 70-130 |
| 594-20-7 | 2,2-Dichloropropane | 5 | 5.3 | 106 | 70-130 |
| 124-48-1 | Dibromochloromethane | 5 | 4.9 | 98 | 70-130 |
| 74-95-3 | Dibromomethane | 5 | 5.1 | 102 | 70-130 |
| 75-71-8 | Dichlorodifluoromethane | 2 | 2.2 | 110 | 70-130 |
| 541-73-1 | m-Dichlorobenzene | 5 | 5.1 | 102 | 70-130 |
| 95-50-1 | o-Dichlorobenzene | 5 | 5.1 | 102 | 70-130 |
| 106-46-7 | p-Dichlorobenzene | 5 | 5.0 | 100 | 70-130 |
| 156-60-5 | trans-1,2-Dichloroethylene | 5 | 5.3 | 106 | 70-130 |
| 156-59-2 | cis-1,2-Dichloroethylene | 5 | 5.1 | 102 | 70-130 |

# Blank Spike Summary

**Job Number:** JB5593
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V1B3152-BS | 1B67901.D | 1 | 05/04/12 | MFH | n/a | n/a | V1B3152 |

**The QC reported here applies to the following samples:** **Method:** EPA 524.2 REV 4.1

JB5593-1, JB5593-2, JB5593-3, JB5593-4, JB5593-5, JB5593-6, JB5593-7, JB5593-8, JB5593-9

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | 4.9 | 98 | 70-130 |
| 10061-02-6 | trans-1,3-Dichloropropene | 5 | 4.9 | 98 | 70-130 |
| 108-20-3 | Di-Isopropyl ether | 5 | 4.3 | 86 | 70-130 |
| 100-41-4 | Ethylbenzene | 5 | 4.6 | 92 | 70-130 |
| 637-92-3 | Ethyl tert Butyl Ether | 5 | 4.2 | 84 | 70-130 |
| 87-68-3 | Hexachlorobutadiene | 5 | 5.0 | 100 | 70-130 |
| 110-54-3 | Hexane | 5 | 5.5 | 110 | 70-130 |
| 591-78-6 | 2-Hexanone | 20 | 20.6 | 103 | 70-130 |
| 98-82-8 | Isopropylbenzene | 5 | 4.6 | 92 | 70-130 |
| 99-87-6 | p-Isopropyltoluene | 5 | 4.7 | 94 | 70-130 |
| 75-09-2 | Methylene chloride | 5 | 5.3 | 106 | 70-130 |
| 1634-04-4 | Methyl Tert Butyl Ether | 10 | 9.5 | 95 | 70-130 |
| 108-10-1 | 4-Methyl-2-pentanone | 20 | 21.4 | 107 | 70-130 |
| 91-20-3 | Naphthalene | 5 | 4.6 | 92 | 70-130 |
| 103-65-1 | n-Propylbenzene | 5 | 4.8 | 96 | 70-130 |
| 100-42-5 | Styrene | 5 | 4.6 | 92 | 70-130 |
| 994-05-8 | tert-Amyl Methyl Ether | 5 | 4.6 | 92 | 70-130 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 5 | 5.1 | 102 | 70-130 |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | 5.2 | 104 | 70-130 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | 5.1 | 102 | 70-130 |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | 5.1 | 102 | 70-130 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 5 | 5.0 | 100 | 70-130 |
| 96-18-4 | 1,2,3-Trichloropropane | 5 | 5.2 | 104 | 70-130 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 5 | 4.8 | 96 | 70-130 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 5 | 4.8 | 96 | 70-130 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 5 | 4.8 | 96 | 70-130 |
| 127-18-4 | Tetrachloroethylene | 5 | 5.3 | 106 | 70-130 |
| 108-88-3 | Toluene | 5 | 4.9 | 98 | 70-130 |
| 79-01-6 | Trichloroethylene | 5 | 5.1 | 102 | 70-130 |
| 75-69-4 | Trichlorofluoromethane | 2 | 2.0 | 100 | 70-130 |
| 75-65-0 | Tertiary Butyl Alcohol | 25 | 26.6 | 106 | 70-130 |
| 75-01-4 | Vinyl chloride | 2 | 2.0 | 100 | 70-130 |
| | m,p-Xylene | 10 | 9.7 | 97 | 70-130 |
| 95-47-6 | o-Xylene | 5 | 4.7 | 94 | 70-130 |
| 1330-20-7 | Xylenes (total) | 15 | 14.4 | 96 | 70-130 |

# Blank Spike Summary



**Job Number:** JB5593
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V1B3152-BS | 1B67901.D | 1 | 05/04/12 | MFH | n/a | n/a | V1B3152 |

**The QC reported here applies to the following samples:** **Method:** EPA 524.2 REV 4.1

JB5593-1, JB5593-2, JB5593-3, JB5593-4, JB5593-5, JB5593-6, JB5593-7, JB5593-8, JB5593-9

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 103% | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 94% | 77-115% |

# Matrix Spike Summary



**Job Number:** JB5593
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5593-8MS | 1B67911.D | 1 | 05/04/12 | MFH | n/a | n/a | V1B3152 |
| JB5593-8 | 1B67903.D | 1 | 05/04/12 | MFH | n/a | n/a | V1B3152 |



**The QC reported here applies to the following samples:** **Method:** EPA 524.2 REV 4.1

JB5593-1, JB5593-2, JB5593-3, JB5593-4, JB5593-5, JB5593-6, JB5593-7, JB5593-8, JB5593-9

| CAS No. | Compound | JB5593-8 ug/l | Q | Spike ug/l | MS ug/l | MS % | Limits |
|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | | 20 | 21.0 | 105 | 41-142 |
| 78-93-3 | 2-Butanone | ND | | 20 | 22.3 | 112 | 55-129 |
| 71-43-2 | Benzene | ND | | 5 | 5.4 | 108 | 53-138 |
| 108-86-1 | Bromobenzene | ND | | 5 | 4.9 | 98 | 54-138 |
| 74-97-5 | Bromochloromethane | ND | | 5 | 5.5 | 110 | 55-140 |
| 75-27-4 | Bromodichloromethane | ND | | 5 | 4.9 | 98 | 57-147 |
| 75-25-2 | Bromoform | ND | | 5 | 4.6 | 92 | 47-137 |
| 74-83-9 | Bromomethane | ND | | 2 | 1.8 | 90 | 40-162 |
| 104-51-8 | n-Butylbenzene | ND | | 5 | 4.9 | 98 | 45-144 |
| 135-98-8 | sec-Butylbenzene | ND | | 5 | 5.0 | 100 | 46-145 |
| 98-06-6 | tert-Butylbenzene | ND | | 5 | 4.7 | 94 | 48-141 |
| 75-15-0 | Carbon disulfide | ND | | 5 | 5.0 | 100 | 35-127 |
| 108-90-7 | Chlorobenzene | ND | | 5 | 4.9 | 98 | 54-135 |
| 75-00-3 | Chloroethane | ND | | 2 | 1.9 | 95 | 38-153 |
| 67-66-3 | Chloroform | 0.22 | J | 5 | 5.4 | 104 | 57-151 |
| 74-87-3 | Chloromethane | ND | | 2 | 1.9 | 95 | 39-165 |
| 95-49-8 | o-Chlorotoluene | ND | | 5 | 5.1 | 102 | 55-142 |
| 106-43-4 | p-Chlorotoluene | ND | | 5 | 4.8 | 96 | 55-139 |
| 56-23-5 | Carbon tetrachloride | ND | | 5 | 5.9 | 118 | 49-170 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 5 | 5.5 | 110 | 55-149 |
| 75-35-4 | 1,1-Dichloroethylene | ND | | 5 | 5.7 | 114 | 42-142 |
| 563-58-6 | 1,1-Dichloropropene | ND | | 5 | 5.7 | 114 | 46-151 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | | 5 | 4.7 | 94 | 48-141 |
| 106-93-4 | 1,2-Dibromoethane | ND | | 5 | 4.9 | 98 | 57-135 |
| 107-06-2 | 1,2-Dichloroethane | 0.14 | J | 5 | 5.2 | 101 | 59-166 |
| 78-87-5 | 1,2-Dichloropropane | ND | | 5 | 5.1 | 102 | 53-142 |
| 142-28-9 | 1,3-Dichloropropane | ND | | 5 | 5.0 | 100 | 58-143 |
| 594-20-7 | 2,2-Dichloropropane | ND | | 5 | 5.9 | 118 | 38-165 |
| 124-48-1 | Dibromochloromethane | ND | | 5 | 4.7 | 94 | 55-138 |
| 74-95-3 | Dibromomethane | ND | | 5 | 5.1 | 102 | 61-144 |
| 75-71-8 | Dichlorodifluoromethane | ND | | 2 | 2.2 | 110 | 23-172 |
| 541-73-1 | m-Dichlorobenzene | ND | | 5 | 5.1 | 102 | 53-138 |
| 95-50-1 | o-Dichlorobenzene | ND | | 5 | 5.0 | 100 | 54-140 |
| 106-46-7 | p-Dichlorobenzene | ND | | 5 | 5.0 | 100 | 53-137 |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | | 5 | 5.6 | 112 | 47-148 |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | | 5 | 5.1 | 102 | 51-146 |

# Matrix Spike Summary



**Job Number:** JB5593
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5593-8MS | 1B67911.D | 1 | 05/04/12 | MFH | n/a | n/a | V1B3152 |
| JB5593-8 | 1B67903.D | 1 | 05/04/12 | MFH | n/a | n/a | V1B3152 |



**The QC reported here applies to the following samples:** **Method:** EPA 524.2 REV 4.1

JB5593-1, JB5593-2, JB5593-3, JB5593-4, JB5593-5, JB5593-6, JB5593-7, JB5593-8, JB5593-9

| CAS No. | Compound | JB5593-8 ug/l | Q | Spike ug/l | MS ug/l | MS % | Limits |
|---|---|---|---|---|---|---|---|
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 5 | 4.5 | 90 | 51-136 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 5 | 4.6 | 92 | 54-142 |
| 108-20-3 | Di-Isopropyl ether | ND | | 5 | 4.0 | 80 | 38-142 |
| 100-41-4 | Ethylbenzene | ND | | 5 | 4.7 | 94 | 51-138 |
| 637-92-3 | Ethyl tert Butyl Ether | ND | | 5 | 4.0 | 80 | 49-134 |
| 87-68-3 | Hexachlorobutadiene | ND | | 5 | 5.5 | 110 | 40-154 |
| 110-54-3 | Hexane | ND | | 5 | 5.6 | 112 | 22-142 |
| 591-78-6 | 2-Hexanone | ND | | 20 | 20.2 | 101 | 53-128 |
| 98-82-8 | Isopropylbenzene | ND | | 5 | 4.7 | 94 | 49-139 |
| 99-87-6 | p-Isopropyltoluene | ND | | 5 | 4.9 | 98 | 45-141 |
| 75-09-2 | Methylene chloride | ND | | 5 | 5.4 | 108 | 54-137 |
| 1634-04-4 | Methyl Tert Butyl Ether | 0.19 | J | 5 | 4.8 | 92 | 53-143 |
| 108-10-1 | 4-Methyl-2-pentanone | ND | | 20 | 20.3 | 102 | 58-127 |
| 91-20-3 | Naphthalene | ND | | 5 | 4.3 | 86 | 44-140 |
| 103-65-1 | n-Propylbenzene | ND | | 5 | 5.0 | 100 | 50-142 |
| 100-42-5 | Styrene | ND | | 5 | 4.5 | 90 | 23-130 |
| 994-05-8 | tert-Amyl Methyl Ether | ND | | 5 | 4.0 | 80 | 51-125 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | | 5 | 5.1 | 102 | 57-144 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 5 | 5.7 | 114 | 52-164 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 5 | 5.0 | 100 | 58-138 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | | 5 | 5.0 | 100 | 59-139 |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | | 5 | 4.9 | 98 | 47-141 |
| 96-18-4 | 1,2,3-Trichloropropane | ND | | 5 | 5.1 | 102 | 56-148 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | | 5 | 4.7 | 94 | 46-137 |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | | 5 | 4.8 | 96 | 41-138 |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | | 5 | 4.9 | 98 | 45-138 |
| 127-18-4 | Tetrachloroethylene | ND | | 5 | 5.7 | 114 | 45-145 |
| 108-88-3 | Toluene | ND | | 5 | 5.0 | 100 | 52-134 |
| 79-01-6 | Trichloroethylene | ND | | 5 | 5.4 | 108 | 54-143 |
| 75-69-4 | Trichlorofluoromethane | ND | | 2 | 2.0 | 100 | 36-167 |
| 75-65-0 | Tertiary Butyl Alcohol | ND | | 25 | 23.7 | 95 | 61-132 |
| 75-01-4 | Vinyl chloride | ND | | 2 | 2.0 | 100 | 35-162 |
| | m,p-Xylene | ND | | 10 | 9.9 | 99 | 49-135 |
| 95-47-6 | o-Xylene | ND | | 5 | 4.7 | 94 | 49-134 |
| 1330-20-7 | Xylenes (total) | ND | | 15 | 14.6 | 97 | 50-134 |

# Matrix Spike Summary



**Job Number:** JB5593
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5593-8MS | 1B67911.D | 1 | 05/04/12 | MFH | n/a | n/a | V1B3152 |
| JB5593-8 | 1B67903.D | 1 | 05/04/12 | MFH | n/a | n/a | V1B3152 |

**The QC reported here applies to the following samples:** **Method:** EPA 524.2 REV 4.1

JB5593-1, JB5593-2, JB5593-3, JB5593-4, JB5593-5, JB5593-6, JB5593-7, JB5593-8, JB5593-9

| CAS No. | Surrogate Recoveries | MS | JB5593-8 | Limits |
|---|---|---|---|---|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 103% | 98% | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 93% | 89% | 77-115% |

# Duplicate Summary



**Job Number:** JB5593
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5593-9DUP | 1B67912.D | 1 | 05/04/12 | MFH | n/a | n/a | V1B3152 |
| JB5593-9 | 1B67904.D | 1 | 05/04/12 | MFH | n/a | n/a | V1B3152 |



**The QC reported here applies to the following samples:** **Method:** EPA 524.2 REV 4.1

JB5593-1, JB5593-2, JB5593-3, JB5593-4, JB5593-5, JB5593-6, JB5593-7, JB5593-8, JB5593-9

| CAS No. | Compound | JB5593-9 ug/l | Q | DUP ug/l | Q | RPD | Limits |
|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | | ND | | nc | 10 |
| 78-93-3 | 2-Butanone | ND | | ND | | nc | 12 |
| 71-43-2 | Benzene | ND | | ND | | nc | 10 |
| 108-86-1 | Bromobenzene | ND | | ND | | nc | 10 |
| 74-97-5 | Bromochloromethane | ND | | ND | | nc | 10 |
| 75-27-4 | Bromodichloromethane | ND | | ND | | nc | 10 |
| 75-25-2 | Bromoform | ND | | ND | | nc | 10 |
| 74-83-9 | Bromomethane | ND | | ND | | nc | 10 |
| 104-51-8 | n-Butylbenzene | ND | | ND | | nc | 10 |
| 135-98-8 | sec-Butylbenzene | ND | | ND | | nc | 10 |
| 98-06-6 | tert-Butylbenzene | ND | | ND | | nc | 10 |
| 75-15-0 | Carbon disulfide | ND | | ND | | nc | 19 |
| 108-90-7 | Chlorobenzene | ND | | ND | | nc | 10 |
| 75-00-3 | Chloroethane | ND | | ND | | nc | 10 |
| 67-66-3 | Chloroform | ND | | ND | | nc | 12 |
| 74-87-3 | Chloromethane | ND | | ND | | nc | 10 |
| 95-49-8 | o-Chlorotoluene | ND | | ND | | nc | 10 |
| 106-43-4 | p-Chlorotoluene | ND | | ND | | nc | 10 |
| 56-23-5 | Carbon tetrachloride | ND | | ND | | nc | 10 |
| 75-34-3 | 1,1-Dichloroethane | ND | | ND | | nc | 10 |
| 75-35-4 | 1,1-Dichloroethylene | ND | | ND | | nc | 10 |
| 563-58-6 | 1,1-Dichloropropene | ND | | ND | | nc | 10 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | | ND | | nc | 10 |
| 106-93-4 | 1,2-Dibromoethane | ND | | ND | | nc | 10 |
| 107-06-2 | 1,2-Dichloroethane | 0.14 | J | 0.14 | J | 0 | 10 |
| 78-87-5 | 1,2-Dichloropropane | ND | | ND | | nc | 10 |
| 142-28-9 | 1,3-Dichloropropane | ND | | ND | | nc | 10 |
| 594-20-7 | 2,2-Dichloropropane | ND | | ND | | nc | 10 |
| 124-48-1 | Dibromochloromethane | ND | | ND | | nc | 10 |
| 74-95-3 | Dibromomethane | ND | | ND | | nc | 10 |
| 75-71-8 | Dichlorodifluoromethane | ND | | ND | | nc | 10 |
| 541-73-1 | m-Dichlorobenzene | ND | | ND | | nc | 10 |
| 95-50-1 | o-Dichlorobenzene | ND | | ND | | nc | 10 |
| 106-46-7 | p-Dichlorobenzene | ND | | ND | | nc | 10 |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | | ND | | nc | 10 |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | | ND | | nc | 10 |

# Duplicate Summary

**Job Number:** JB5593
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5593-9DUP | 1B67912.D | 1 | 05/04/12 | MFH | n/a | n/a | V1B3152 |
| JB5593-9 | 1B67904.D | 1 | 05/04/12 | MFH | n/a | n/a | V1B3152 |

**The QC reported here applies to the following samples:** **Method:** EPA 524.2 REV 4.1

JB5593-1, JB5593-2, JB5593-3, JB5593-4, JB5593-5, JB5593-6, JB5593-7, JB5593-8, JB5593-9

| CAS No. | Compound | JB5593-9 ug/l | Q | DUP ug/l | Q | RPD | Limits |
|---|---|---|---|---|---|---|---|
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | ND | | nc | 10 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | ND | | nc | 10 |
| 108-20-3 | Di-Isopropyl ether | ND | | ND | | nc | 10 |
| 100-41-4 | Ethylbenzene | ND | | ND | | nc | 10 |
| 637-92-3 | Ethyl tert Butyl Ether | ND | | ND | | nc | 10 |
| 87-68-3 | Hexachlorobutadiene | ND | | ND | | nc | 10 |
| 110-54-3 | Hexane | ND | | ND | | nc | 10 |
| 591-78-6 | 2-Hexanone | ND | | ND | | nc | 10 |
| 98-82-8 | Isopropylbenzene | ND | | ND | | nc | 10 |
| 99-87-6 | p-Isopropyltoluene | ND | | ND | | nc | 10 |
| 75-09-2 | Methylene chloride | ND | | ND | | nc | 10 |
| 1634-04-4 | Methyl Tert Butyl Ether | 0.31 | J | 0.32 | J | 3 | 10 |
| 108-10-1 | 4-Methyl-2-pentanone | ND | | ND | | nc | 10 |
| 91-20-3 | Naphthalene | ND | | ND | | nc | 10 |
| 103-65-1 | n-Propylbenzene | ND | | ND | | nc | 10 |
| 100-42-5 | Styrene | ND | | ND | | nc | 10 |
| 994-05-8 | tert-Amyl Methyl Ether | ND | | ND | | nc | 10 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | | ND | | nc | 10 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | ND | | nc | 10 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | ND | | nc | 10 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | | ND | | nc | 10 |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | | ND | | nc | 10 |
| 96-18-4 | 1,2,3-Trichloropropane | ND | | ND | | nc | 10 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | | ND | | nc | 10 |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | | ND | | nc | 10 |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | | ND | | nc | 10 |
| 127-18-4 | Tetrachloroethylene | ND | | ND | | nc | 10 |
| 108-88-3 | Toluene | ND | | ND | | nc | 10 |
| 79-01-6 | Trichloroethylene | ND | | ND | | nc | 10 |
| 75-69-4 | Trichlorofluoromethane | ND | | ND | | nc | 10 |
| 75-65-0 | Tertiary Butyl Alcohol | ND | | ND | | nc | 10 |
| 75-01-4 | Vinyl chloride | ND | | ND | | nc | 10 |
| | m,p-Xylene | ND | | ND | | nc | 10 |
| 95-47-6 | o-Xylene | ND | | ND | | nc | 10 |
| 1330-20-7 | Xylenes (total) | ND | | ND | | nc | 10 |

# Duplicate Summary



**Job Number:** JB5593
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5593-9DUP | 1B67912.D | 1 | 05/04/12 | MFH | n/a | n/a | V1B3152 |
| JB5593-9 | 1B67904.D | 1 | 05/04/12 | MFH | n/a | n/a | V1B3152 |

**The QC reported here applies to the following samples:** **Method:** EPA 524.2 REV 4.1

JB5593-1, JB5593-2, JB5593-3, JB5593-4, JB5593-5, JB5593-6, JB5593-7, JB5593-8, JB5593-9

| CAS No. | Surrogate Recoveries | DUP | JB5593-9 | Limits |
|---|---|---|---|---|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 99% | 100% | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 88% | 90% | 77-115% |

# Instrument Performance Check (BFB)



**Job Number:** JB5593
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Sample:** V1B3141-BFB
**Lab File ID:** 1B67694.D
**Instrument ID:** GCMS1B
**Injection Date:** 04/26/12
**Injection Time:** 13:21



| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 1874 | 15.6 | | Pass |
| 75 | 30.0 - 80.0% of mass 95 | 5585 | 46.4 | | Pass |
| 95 | Base peak, 100% relative abundance | 12026 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 830 | 6.90 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 9721 | 80.8 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 774 | 6.44 | (7.96) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 9620 | 80.0 | (99.0) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 631 | 5.25 | (6.56) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V1B3141-ICC3141 | 1B67695.D | 04/26/12 | 13:53 | 00:32 | Initial cal 10 |
| V1B3141-IC3141 | 1B67696.D | 04/26/12 | 14:25 | 01:04 | Initial cal 1 |
| V1B3141-IC3141 | 1B67697.D | 04/26/12 | 14:57 | 01:36 | Initial cal 5 |
| V1B3141-IC3141 | 1B67698.D | 04/26/12 | 15:29 | 02:08 | Initial cal 2 |
| V1B3141-IC3141 | 1B67699.D | 04/26/12 | 16:01 | 02:40 | Initial cal 0.5 |
| V1B3141-IC3141 | 1B67700.D | 04/26/12 | 16:33 | 03:12 | Initial cal 20 |
| V1B3141-IC3141 | 1B67701.D | 04/26/12 | 17:05 | 03:44 | Initial cal 40 |
| V1B3141-ICV3141 | 1B67704.D | 04/26/12 | 19:13 | 05:52 | Initial cal verification 10 |

# Instrument Performance Check (BFB)



**Job Number:** JB5593
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Sample:** V1B3152-BFB
**Lab File ID:** 1B67898.D
**Instrument ID:** GCMS1B
**Injection Date:** 05/04/12
**Injection Time:** 09:05



| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 1359 | 15.4 | | Pass |
| 75 | 30.0 - 80.0% of mass 95 | 3854 | 43.6 | | Pass |
| 95 | Base peak, 100% relative abundance | 8844 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 624 | 7.06 | | Pass |
| 173 | Less than 2.0% of mass 174 | 44 | 0.50 | (0.59) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 7466 | 84.4 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 577 | 6.52 | (7.73) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 7106 | 80.3 | (95.2) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 490 | 5.54 | (6.90) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V1B3152-CC3141 | 1B67899.D | 05/04/12 | 09:39 | 00:34 | Continuing cal 10 |
| V1B3152-MB1 | 1B67900.D | 05/04/12 | 10:15 | 01:10 | Method Blank |
| V1B3152-BS | 1B67901.D | 05/04/12 | 10:48 | 01:43 | Blank Spike |
| JB5593-1 | 1B67902.D | 05/04/12 | 11:20 | 02:15 | 600 BRYANTS NURSERY |
| JB5593-8 | 1B67903.D | 05/04/12 | 11:52 | 02:47 | 661 BRYANTS NURSERY |
| JB5593-9 | 1B67904.D | 05/04/12 | 12:25 | 03:20 | 670 BRYANTS NURSERY |
| JB5593-2 | 1B67905.D | 05/04/12 | 12:57 | 03:52 | 601 BRYANTS NURSERY |
| JB5593-3 | 1B67906.D | 05/04/12 | 13:29 | 04:24 | 610 BRYANTS NURSERY |
| JB5593-4 | 1B67907.D | 05/04/12 | 14:01 | 04:56 | 611 BRYANTS NURSERY |
| JB5593-5 | 1B67908.D | 05/04/12 | 14:33 | 05:28 | 621 BRYANTS NURSERY |
| JB5593-6 | 1B67909.D | 05/04/12 | 15:05 | 06:00 | 651 BRYANTS NURSERY |
| JB5593-7 | 1B67910.D | 05/04/12 | 15:37 | 06:32 | 660 BRYANTS NURSERY |
| JB5593-8MS | 1B67911.D | 05/04/12 | 16:09 | 07:04 | Matrix Spike |
| JB5593-9DUP | 1B67912.D | 05/04/12 | 16:41 | 07:36 | Duplicate |
| ZZZZZZ | 1B67913.D | 05/04/12 | 17:13 | 08:08 | (unrelated sample) |
| ZZZZZZ | 1B67914.D | 05/04/12 | 17:45 | 08:40 | (unrelated sample) |
| ZZZZZZ | 1B67915.D | 05/04/12 | 18:17 | 09:12 | (unrelated sample) |

# Volatile Surrogate Recovery Summary



**Job Number:** JB5593
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Method:** EPA 524.2 REV 4.1 **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 | S2 |
|---|---|---|---|
| JB5593-1 | 1B67902.D | 99.0 | 90.0 |
| JB5593-2 | 1B67905.D | 100.0 | 89.0 |
| JB5593-3 | 1B67906.D | 100.0 | 89.0 |
| JB5593-4 | 1B67907.D | 100.0 | 89.0 |
| JB5593-5 | 1B67908.D | 97.0 | 88.0 |
| JB5593-6 | 1B67909.D | 98.0 | 88.0 |
| JB5593-7 | 1B67910.D | 98.0 | 88.0 |
| JB5593-8 | 1B67903.D | 98.0 | 89.0 |
| JB5593-9 | 1B67904.D | 100.0 | 90.0 |
| JB5593-8MS | 1B67911.D | 103.0 | 93.0 |
| JB5593-9DUP | 1B67912.D | 99.0 | 88.0 |
| V1B3152-BS | 1B67901.D | 103.0 | 94.0 |
| V1B3152-MB1 | 1B67900.D | 100.0 | 93.0 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = 1,2-Dichlorobenzene-d4 | 78-114% |
| **S2** = 4-Bromofluorobenzene | 77-115% |

New Jersey

ACCUTEST LABORATORIES



# GC Volatiles

## QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

# Method Blank Summary



**Job Number:** JB5593
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| GUV3864-MB2 | UV97990.D | 1 | 05/08/12 | XPL | n/a | n/a | GUV3864 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB5593-1, JB5593-2, JB5593-3, JB5593-4, JB5593-5, JB5593-6, JB5593-7, JB5593-8, JB5593-9

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 82% | 68-114% |

# Method Blank Summary



**Job Number:** JB5593
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| GUV3864-MB1 | UV97979.D | 1 | 05/08/12 | XPL | n/a | n/a | GUV3864 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

GUV3864-BS, JB5604-30MS, JB5604-30MSD

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 81% | 68-114% |

# Blank Spike Summary



**Job Number:** JB5593
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| GUV3864-BS | UV97986.D | 1 | 05/08/12 | XPL | n/a | n/a | GUV3864 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB5593-1, JB5593-2, JB5593-3, JB5593-4, JB5593-5, JB5593-6, JB5593-7, JB5593-8, JB5593-9

| CAS No. | Compound | Spike mg/l | BSP mg/l | BSP % | Limits |
|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 8 | 8.22 | 103 | 72-125 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 105% | 68-114% |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB5593
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5604-30MS | UV97987.D | 1 | 05/08/12 | XPL | n/a | n/a | GUV3864 |
| JB5604-30MSD | UV97988.D | 1 | 05/08/12 | XPL | n/a | n/a | GUV3864 |
| JB5604-30 | UV97985.D | 1 | 05/08/12 | XPL | n/a | n/a | GUV3864 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB5593-1, JB5593-2, JB5593-3, JB5593-4, JB5593-5, JB5593-6, JB5593-7, JB5593-8, JB5593-9

| CAS No. | Compound | JB5604-30 mg/l | Q | Spike mg/l | MS mg/l | MS % | MSD mg/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | | 8 | 7.29 | 91 | 7.36 | 92 | 1 | 46-131/20 |

| CAS No. | Surrogate Recoveries | MS | MSD | JB5604-30 | Limits |
|---|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 97% | 98% | 81% | 68-114% |

# Volatile Surrogate Recovery Summary



**Job Number:** JB5593
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Method:** SW846 8015C **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 [a] |
|---|---|---|
| JB5593-1 | UV97991.D | 81.0 |
| JB5593-2 | UV97992.D | 81.0 |
| JB5593-3 | UV97993.D | 82.0 |
| JB5593-4 | UV97994.D | 81.0 |
| JB5593-5 | UV97995.D | 81.0 |
| JB5593-6 | UV97996.D | 82.0 |
| JB5593-7 | UV97997.D | 80.0 |
| JB5593-8 | UV97998.D | 81.0 |
| JB5593-9 | UV97999.D | 81.0 |
| GUV3864-BS | UV97986.D | 105.0 |
| GUV3864-MB2 | UV97990.D | 82.0 |
| JB5604-30MS | UV97987.D | 97.0 |
| JB5604-30MSD | UV97988.D | 98.0 |
| GUV3864-MB1 | UV97979.D | 81.0 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = aaa-Trifluorotoluene | 68-114% |

(a) Recovery from GC signal #1

New Jersey
ACCUTEST LABORATORIES



# GC Semi-volatiles

## QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

# Method Blank Summary



**Job Number:** JB5593
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP56760-MB1 | 2Y44678.D | 1 | 05/08/12 | CS | 05/04/12 | OP56760 | G2Y1835 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB5593-1, JB5593-2, JB5593-3, JB5593-4, JB5593-5, JB5593-6, JB5593-7, JB5593-8, JB5593-9

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 84-15-1 | o-Terphenyl | 83% | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 71% | 32-138% |
| 438-22-2 | 5a-Androstane | 85% | 31-136% |

# Blank Spike Summary



**Job Number:** JB5593
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP56760-BS1 | 2Y44679.D | 1 | 05/08/12 | CS | 05/04/12 | OP56760 | G2Y1835 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB5593-1, JB5593-2, JB5593-3, JB5593-4, JB5593-5, JB5593-6, JB5593-7, JB5593-8, JB5593-9

| CAS No. | Compound | Spike mg/l | BSP mg/l | BSP % | Limits |
|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | 1 | 0.859 | 86 | 15-111 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 84-15-1 | o-Terphenyl | 92% | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 77% | 32-138% |
| 438-22-2 | 5a-Androstane | 92% | 31-136% |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB5593
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP56760-MS | 2Y44691.D | 1 | 05/08/12 | CS | 05/04/12 | OP56760 | G2Y1835 |
| OP56760-MSD | 2Y44692.D | 1 | 05/08/12 | CS | 05/04/12 | OP56760 | G2Y1835 |
| JB5593-4 | 2Y44683.D | 1 | 05/08/12 | CS | 05/04/12 | OP56760 | G2Y1835 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB5593-1, JB5593-2, JB5593-3, JB5593-4, JB5593-5, JB5593-6, JB5593-7, JB5593-8, JB5593-9

| CAS No. | Compound | JB5593-4 mg/l | Q | Spike mg/l | MS mg/l | MS % | MSD mg/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | | 2.11 | 2.04 | 97 | 1.96 | 93 | 4 | 23-160/31 |

| CAS No. | Surrogate Recoveries | MS | MSD | JB5593-4 | Limits |
|---|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 95% | 91% | 55% | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 81% | 75% | 55% | 32-138% |
| 438-22-2 | 5a-Androstane | 98% | 93% | 61% | 31-136% |

# Semivolatile Surrogate Recovery Summary



**Job Number:** JB5593
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Method:** SW846 8015C **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 [a] | S2 [a] | S3 [a] |
|---|---|---|---|---|
| JB5593-1 | 2Y44680.D | 90.0 | 79.0 | 92.0 |
| JB5593-2 | 2Y44681.D | 89.0 | 79.0 | 92.0 |
| JB5593-3 | 2Y44682.D | 90.0 | 77.0 | 92.0 |
| JB5593-4 | 2Y44683.D | 55.0 | 55.0 | 61.0 |
| JB5593-5 | 2Y44684.D | 89.0 | 82.0 | 92.0 |
| JB5593-6 | 2Y44685.D | 86.0 | 73.0 | 87.0 |
| JB5593-7 | 2Y44686.D | 88.0 | 76.0 | 91.0 |
| JB5593-8 | 2Y44689.D | 87.0 | 75.0 | 89.0 |
| JB5593-9 | 2Y44690.D | 81.0 | 68.0 | 83.0 |
| OP56760-BS1 | 2Y44679.D | 92.0 | 77.0 | 92.0 |
| OP56760-MB1 | 2Y44678.D | 83.0 | 71.0 | 85.0 |
| OP56760-MS | 2Y44691.D | 95.0 | 81.0 | 98.0 |
| OP56760-MSD | 2Y44692.D | 91.0 | 75.0 | 93.0 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = o-Terphenyl | 36-144% |
| **S2** = Tetracosane-d50 | 32-138% |
| **S3** = 5a-Androstane | 31-136% |

(a) Recovery from GC signal #1

7.4.1

7

New Jersey
ACCUTEST LABORATORIES

05/14/12

# Technical Report for

Shell Oil Products US

URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

INC#97436977

Accutest Job Number: JB5664

Sampling Dates: 05/02/12 - 05/03/12

Report to:

URS Corporation
12420 Milestone Center Drive Suite 150
Germantown, MD 20876
jenna_anthony@urscorp.com; adriane_rogers@urscorp.com

ATTN: Jenna Anthony

Total number of pages in report: **55**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul Ioannidis
Lab Director

Client Service contact: Marty Vitanza 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.



Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

# Table of Contents

-1-

**Section 1: Sample Summary** ..... **3**
**Section 2: Case Narrative/Conformance Summary** ..... **4**
**Section 3: Sample Results** ..... **5**
**3.1:** JB5664-1: 640 BRYANTS NURSERY ..... 6
**3.2:** JB5664-2: 650 BRYANTS NURSERY ..... 11
**3.3:** JB5664-3: 700 BRYANTS NURSERY ..... 16
**3.4:** JB5664-4: 701 BRYANTS NURSERY ..... 21
**Section 4: Misc. Forms** ..... **26**
**4.1:** Chain of Custody ..... 27
**Section 5: GC/MS Volatiles - QC Data Summaries** ..... **30**
**5.1:** Method Blank Summary ..... 31
**5.2:** Blank Spike Summary ..... 34
**5.3:** Matrix Spike Summary ..... 37
**5.4:** Duplicate Summary ..... 40
**5.5:** Instrument Performance Checks (BFB) ..... 43
**5.6:** Surrogate Recovery Summaries ..... 45
**Section 6: GC Volatiles - QC Data Summaries** ..... **46**
**6.1:** Method Blank Summary ..... 47
**6.2:** Blank Spike Summary ..... 48
**6.3:** Matrix Spike/Matrix Spike Duplicate Summary ..... 49
**6.4:** Surrogate Recovery Summaries ..... 50
**Section 7: GC Semi-volatiles - QC Data Summaries** ..... **51**
**7.1:** Method Blank Summary ..... 52
**7.2:** Blank Spike Summary ..... 53
**7.3:** Matrix Spike/Matrix Spike Duplicate Summary ..... 54
**7.4:** Surrogate Recovery Summaries ..... 55

Accutest Laboratories

# Sample Summary

Shell Oil Products US

**Job No:** JB5664

URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD
Project No: INC#97436977

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| JB5664-1 | 05/02/12 | 17:55 | RB | 05/04/12 | DW | Drinking Water | 640 BRYANTS NURSERY |
| JB5664-2 | 05/02/12 | 17:40 | RB | 05/04/12 | DW | Drinking Water | 650 BRYANTS NURSERY |
| JB5664-3 | 05/03/12 | 10:00 | RB | 05/04/12 | DW | Drinking Water | 700 BRYANTS NURSERY |
| JB5664-4 | 05/02/12 | 17:20 | RB | 05/04/12 | DW | Drinking Water | 701 BRYANTS NURSERY |

# CASE NARRATIVE / CONFORMANCE SUMMARY

| | | | |
|---|---|---|---|
| **Client:** | Shell Oil Products US | **Job No** | JB5664 |
| **Site:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Sprin | **Report Date** | 5/14/2012 11:46:53 A |

On 05/04/2012, 4 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 2 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB5664 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

## Volatiles by GCMS By Method EPA 524.2 REV 4.1

**Matrix:** AQ **Batch ID:** V1B3153

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB5664-2MS, JB5664-3DUP were used as the QC samples indicated.

## Volatiles by GC By Method SW846 8015C

**Matrix:** AQ **Batch ID:** GUV3868

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB5664-1MS, JB5664-1MSD were used as the QC samples indicated.

## Extractables by GC By Method SW846 8015C

**Matrix:** AQ **Batch ID:** OP56782

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB5665-1MS, JB5665-1MSD were used as the QC samples indicated.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

New Jersey

ACCUTEST LABORATORIES



## Sample Results

Report of Analysis

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 640 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5664-1 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/04/12 |
| **Method:** | EPA 524.2 REV 4.1 | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 1B67921.D | 1 | 05/07/12 | MFH | n/a | n/a | V1B3153 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA List**

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | | 5.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone | ND | | 5.0 | 1.6 | ug/l | |
| 71-43-2 | Benzene | ND | 5.0 | 0.50 | 0.047 | ug/l | |
| 108-86-1 | Bromobenzene | ND | | 0.50 | 0.13 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | | 0.50 | 0.13 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | | 0.50 | 0.088 | ug/l | |
| 75-25-2 | Bromoform | ND | | 0.50 | 0.11 | ug/l | |
| 74-83-9 | Bromomethane | ND | | 0.50 | 0.11 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | | 0.50 | 0.11 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | | 0.50 | 0.12 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | | 0.50 | 0.062 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | | 0.50 | 0.10 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 100 | 0.50 | 0.046 | ug/l | |
| 75-00-3 | Chloroethane | ND | | 0.50 | 0.16 | ug/l | |
| 67-66-3 | Chloroform | ND | | 0.50 | 0.069 | ug/l | |
| 74-87-3 | Chloromethane | ND | | 0.50 | 0.095 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | | 0.50 | 0.069 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | | 0.50 | 0.048 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 5.0 | 0.50 | 0.083 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | | 0.50 | 0.067 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 7.0 | 0.50 | 0.14 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | | 0.50 | 0.095 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.20 | 1.0 | 0.22 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.050 | 0.50 | 0.082 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.0 | 0.50 | 0.11 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.0 | 0.50 | 0.080 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | | 0.50 | 0.11 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | | 0.50 | 0.17 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | | 0.50 | 0.075 | ug/l | |
| 74-95-3 | Dibromomethane | ND | | 0.50 | 0.11 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | | 1.0 | 0.10 | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | | 0.50 | 0.11 | ug/l | |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 640 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5664-1 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/04/12 |
| **Method:** | EPA 524.2 REV 4.1 | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA List**

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| 95-50-1 | o-Dichlorobenzene | ND | 600 | 0.50 | 0.073 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 75 | 0.50 | 0.063 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 100 | 0.50 | 0.10 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 70 | 0.50 | 0.13 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 0.50 | 0.10 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 0.50 | 0.094 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | ND | | 0.50 | 0.062 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 700 | 0.50 | 0.14 | ug/l | |
| 637-92-3 | Ethyl tert Butyl Ether | ND | | 0.50 | 0.064 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | | 2.0 | 0.096 | ug/l | |
| 110-54-3 | Hexane | ND | | 0.50 | 0.28 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | | 2.0 | 0.37 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | | 0.50 | 0.11 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | | 0.50 | 0.053 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 5.0 | 0.50 | 0.11 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 0.50 | 0.068 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | | 2.0 | 0.47 | ug/l | |
| 91-20-3 | Naphthalene | ND | | 0.50 | 0.060 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | | 0.50 | 0.12 | ug/l | |
| 100-42-5 | Styrene | ND | 100 | 0.50 | 0.058 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | | 0.50 | 0.050 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | | 0.50 | 0.097 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 200 | 0.50 | 0.059 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 0.50 | 0.041 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.0 | 0.50 | 0.075 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | | 0.50 | 0.053 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | | 0.50 | 0.20 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 70 | 0.50 | 0.073 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | | 0.50 | 0.12 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | | 0.50 | 0.091 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 5.0 | 0.50 | 0.12 | ug/l | |
| 108-88-3 | Toluene | ND | 1000 | 0.50 | 0.079 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 5.0 | 0.50 | 0.15 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | | 1.0 | 0.15 | ug/l | |
| 75-65-0 | Tertiary Butyl Alcohol | ND | | 5.0 | 2.4 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 2.0 | 0.50 | 0.12 | ug/l | |
| | m,p-Xylene | ND | | 1.0 | 0.18 | ug/l | |
| 95-47-6 | o-Xylene | ND | | 0.50 | 0.12 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 10000 | 0.50 | 0.12 | ug/l | |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 640 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5664-1 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/04/12 |
| **Method:** | EPA 524.2 REV 4.1 | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 101% | | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 90% | | 77-115% |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 640 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5664-1 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV98112.D | 1 | 05/11/12 | XPL | n/a | n/a | GUV3868 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 82% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 640 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5664-1 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Y44756.D | 1 | 05/10/12 | CS | 05/07/12 | OP56782 | G2Y1837 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 940 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | | 0.11 | 0.0037 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 50% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 46% | | 32-138% |
| 438-22-2 | 5a-Androstane | 54% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 650 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5664-2 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/04/12 |
| **Method:** | EPA 524.2 REV 4.1 | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 1B67922.D | 1 | 05/07/12 | MFH | n/a | n/a | V1B3153 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA List**

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | | 5.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone | ND | | 5.0 | 1.6 | ug/l | |
| 71-43-2 | Benzene | ND | 5.0 | 0.50 | 0.047 | ug/l | |
| 108-86-1 | Bromobenzene | ND | | 0.50 | 0.13 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | | 0.50 | 0.13 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | | 0.50 | 0.088 | ug/l | |
| 75-25-2 | Bromoform | ND | | 0.50 | 0.11 | ug/l | |
| 74-83-9 | Bromomethane | ND | | 0.50 | 0.11 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | | 0.50 | 0.11 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | | 0.50 | 0.12 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | | 0.50 | 0.062 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | | 0.50 | 0.10 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 100 | 0.50 | 0.046 | ug/l | |
| 75-00-3 | Chloroethane | ND | | 0.50 | 0.16 | ug/l | |
| 67-66-3 | Chloroform | ND | | 0.50 | 0.069 | ug/l | |
| 74-87-3 | Chloromethane | ND | | 0.50 | 0.095 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | | 0.50 | 0.069 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | | 0.50 | 0.048 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 5.0 | 0.50 | 0.083 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | | 0.50 | 0.067 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 7.0 | 0.50 | 0.14 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | | 0.50 | 0.095 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.20 | 1.0 | 0.22 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.050 | 0.50 | 0.082 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.0 | 0.50 | 0.11 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.0 | 0.50 | 0.080 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | | 0.50 | 0.11 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | | 0.50 | 0.17 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | | 0.50 | 0.075 | ug/l | |
| 74-95-3 | Dibromomethane | ND | | 0.50 | 0.11 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | | 1.0 | 0.10 | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | | 0.50 | 0.11 | ug/l | |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 650 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5664-2 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/04/12 |
| **Method:** | EPA 524.2 REV 4.1 | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA List**

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| 95-50-1 | o-Dichlorobenzene | ND | 600 | 0.50 | 0.073 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 75 | 0.50 | 0.063 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 100 | 0.50 | 0.10 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 70 | 0.50 | 0.13 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 0.50 | 0.10 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 0.50 | 0.094 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | ND | | 0.50 | 0.062 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 700 | 0.50 | 0.14 | ug/l | |
| 637-92-3 | Ethyl tert Butyl Ether | ND | | 0.50 | 0.064 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | | 2.0 | 0.096 | ug/l | |
| 110-54-3 | Hexane | ND | | 0.50 | 0.28 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | | 2.0 | 0.37 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | | 0.50 | 0.11 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | | 0.50 | 0.053 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 5.0 | 0.50 | 0.11 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 0.60 | | 0.50 | 0.068 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | | 2.0 | 0.47 | ug/l | |
| 91-20-3 | Naphthalene | ND | | 0.50 | 0.060 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | | 0.50 | 0.12 | ug/l | |
| 100-42-5 | Styrene | ND | 100 | 0.50 | 0.058 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | | 0.50 | 0.050 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | | 0.50 | 0.097 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 200 | 0.50 | 0.059 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 0.50 | 0.041 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.0 | 0.50 | 0.075 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | | 0.50 | 0.053 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | | 0.50 | 0.20 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 70 | 0.50 | 0.073 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | | 0.50 | 0.12 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | | 0.50 | 0.091 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 5.0 | 0.50 | 0.12 | ug/l | |
| 108-88-3 | Toluene | ND | 1000 | 0.50 | 0.079 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 5.0 | 0.50 | 0.15 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | | 1.0 | 0.15 | ug/l | |
| 75-65-0 | Tertiary Butyl Alcohol | ND | | 5.0 | 2.4 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 2.0 | 0.50 | 0.12 | ug/l | |
| | m,p-Xylene | ND | | 1.0 | 0.18 | ug/l | |
| 95-47-6 | o-Xylene | ND | | 0.50 | 0.12 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 10000 | 0.50 | 0.12 | ug/l | |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 650 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5664-2 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/04/12 |
| **Method:** | EPA 524.2 REV 4.1 | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 102% | | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 91% | | 77-115% |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 650 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5664-2 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV98113.D | 1 | 05/11/12 | XPL | n/a | n/a | GUV3868 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 81% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 650 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5664-2 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Y44757.D | 1 | 05/10/12 | CS | 05/07/12 | OP56782 | G2Y1837 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 960 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | | 0.10 | 0.0036 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 75% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 65% | | 32-138% |
| 438-22-2 | 5a-Androstane | 73% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 700 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5664-3 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/04/12 |
| **Method:** | EPA 524.2 REV 4.1 | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 1B67923.D | 1 | 05/07/12 | MFH | n/a | n/a | V1B3153 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA List**

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | | 5.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone | ND | | 5.0 | 1.6 | ug/l | |
| 71-43-2 | Benzene | ND | 5.0 | 0.50 | 0.047 | ug/l | |
| 108-86-1 | Bromobenzene | ND | | 0.50 | 0.13 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | | 0.50 | 0.13 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | | 0.50 | 0.088 | ug/l | |
| 75-25-2 | Bromoform | ND | | 0.50 | 0.11 | ug/l | |
| 74-83-9 | Bromomethane | ND | | 0.50 | 0.11 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | | 0.50 | 0.11 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | | 0.50 | 0.12 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | | 0.50 | 0.062 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | | 0.50 | 0.10 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 100 | 0.50 | 0.046 | ug/l | |
| 75-00-3 | Chloroethane | ND | | 0.50 | 0.16 | ug/l | |
| 67-66-3 | Chloroform | 0.17 | | 0.50 | 0.069 | ug/l | J |
| 74-87-3 | Chloromethane | ND | | 0.50 | 0.095 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | | 0.50 | 0.069 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | | 0.50 | 0.048 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 5.0 | 0.50 | 0.083 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | | 0.50 | 0.067 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 7.0 | 0.50 | 0.14 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | | 0.50 | 0.095 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.20 | 1.0 | 0.22 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.050 | 0.50 | 0.082 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | 0.25 | 5.0 | 0.50 | 0.11 | ug/l | J |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.0 | 0.50 | 0.080 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | | 0.50 | 0.11 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | | 0.50 | 0.17 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | | 0.50 | 0.075 | ug/l | |
| 74-95-3 | Dibromomethane | ND | | 0.50 | 0.11 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | | 1.0 | 0.10 | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | | 0.50 | 0.11 | ug/l | |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 700 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5664-3 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/04/12 |
| **Method:** | EPA 524.2 REV 4.1 | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA List**

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| 95-50-1 | o-Dichlorobenzene | ND | 600 | 0.50 | 0.073 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 75 | 0.50 | 0.063 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 100 | 0.50 | 0.10 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 70 | 0.50 | 0.13 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 0.50 | 0.10 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 0.50 | 0.094 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | 0.12 | | 0.50 | 0.062 | ug/l | J |
| 100-41-4 | Ethylbenzene | ND | 700 | 0.50 | 0.14 | ug/l | |
| 637-92-3 | Ethyl tert Butyl Ether | ND | | 0.50 | 0.064 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | | 2.0 | 0.096 | ug/l | |
| 110-54-3 | Hexane | ND | | 0.50 | 0.28 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | | 2.0 | 0.37 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | | 0.50 | 0.11 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | | 0.50 | 0.053 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 5.0 | 0.50 | 0.11 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 0.93 | | 0.50 | 0.068 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | | 2.0 | 0.47 | ug/l | |
| 91-20-3 | Naphthalene | ND | | 0.50 | 0.060 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | | 0.50 | 0.12 | ug/l | |
| 100-42-5 | Styrene | ND | 100 | 0.50 | 0.058 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | | 0.50 | 0.050 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | | 0.50 | 0.097 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 200 | 0.50 | 0.059 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 0.50 | 0.041 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.0 | 0.50 | 0.075 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | | 0.50 | 0.053 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | | 0.50 | 0.20 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 70 | 0.50 | 0.073 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | | 0.50 | 0.12 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | | 0.50 | 0.091 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 5.0 | 0.50 | 0.12 | ug/l | |
| 108-88-3 | Toluene | ND | 1000 | 0.50 | 0.079 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 5.0 | 0.50 | 0.15 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | | 1.0 | 0.15 | ug/l | |
| 75-65-0 | Tertiary Butyl Alcohol | ND | | 5.0 | 2.4 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 2.0 | 0.50 | 0.12 | ug/l | |
| | m,p-Xylene | ND | | 1.0 | 0.18 | ug/l | |
| 95-47-6 | o-Xylene | ND | | 0.50 | 0.12 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 10000 | 0.50 | 0.12 | ug/l | |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 700 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5664-3 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/04/12 |
| **Method:** | EPA 524.2 REV 4.1 | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 98% | | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 91% | | 77-115% |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 700 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5664-3 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV98114.D | 1 | 05/11/12 | XPL | n/a | n/a | GUV3868 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 84% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 700 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5664-3 | **Date Sampled:** | 05/03/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Y44760.D | 1 | 05/10/12 | CS | 05/07/12 | OP56782 | G2Y1837 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 900 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | | 0.11 | 0.0039 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 75% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 68% | | 32-138% |
| 438-22-2 | 5a-Androstane | 77% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 701 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5664-4 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/04/12 |
| **Method:** | EPA 524.2 REV 4.1 | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 1B67924.D | 1 | 05/07/12 | MFH | n/a | n/a | V1B3153 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA List**

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | | 5.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone | ND | | 5.0 | 1.6 | ug/l | |
| 71-43-2 | Benzene | ND | 5.0 | 0.50 | 0.047 | ug/l | |
| 108-86-1 | Bromobenzene | ND | | 0.50 | 0.13 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | | 0.50 | 0.13 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | | 0.50 | 0.088 | ug/l | |
| 75-25-2 | Bromoform | ND | | 0.50 | 0.11 | ug/l | |
| 74-83-9 | Bromomethane | ND | | 0.50 | 0.11 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | | 0.50 | 0.11 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | | 0.50 | 0.12 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | | 0.50 | 0.062 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | | 0.50 | 0.10 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 100 | 0.50 | 0.046 | ug/l | |
| 75-00-3 | Chloroethane | ND | | 0.50 | 0.16 | ug/l | |
| 67-66-3 | Chloroform | 0.29 | | 0.50 | 0.069 | ug/l | J |
| 74-87-3 | Chloromethane | ND | | 0.50 | 0.095 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | | 0.50 | 0.069 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | | 0.50 | 0.048 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 5.0 | 0.50 | 0.083 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | | 0.50 | 0.067 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 7.0 | 0.50 | 0.14 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | | 0.50 | 0.095 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.20 | 1.0 | 0.22 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.050 | 0.50 | 0.082 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | 0.42 | 5.0 | 0.50 | 0.11 | ug/l | J |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.0 | 0.50 | 0.080 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | | 0.50 | 0.11 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | | 0.50 | 0.17 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | | 0.50 | 0.075 | ug/l | |
| 74-95-3 | Dibromomethane | ND | | 0.50 | 0.11 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | | 1.0 | 0.10 | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | | 0.50 | 0.11 | ug/l | |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 701 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5664-4 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/04/12 |
| **Method:** | EPA 524.2 REV 4.1 | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA List**

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| 95-50-1 | o-Dichlorobenzene | ND | 600 | 0.50 | 0.073 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 75 | 0.50 | 0.063 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 100 | 0.50 | 0.10 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 70 | 0.50 | 0.13 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 0.50 | 0.10 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 0.50 | 0.094 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | ND | | 0.50 | 0.062 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 700 | 0.50 | 0.14 | ug/l | |
| 637-92-3 | Ethyl tert Butyl Ether | ND | | 0.50 | 0.064 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | | 2.0 | 0.096 | ug/l | |
| 110-54-3 | Hexane | ND | | 0.50 | 0.28 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | | 2.0 | 0.37 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | | 0.50 | 0.11 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | | 0.50 | 0.053 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 5.0 | 0.50 | 0.11 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 0.78 | | 0.50 | 0.068 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | | 2.0 | 0.47 | ug/l | |
| 91-20-3 | Naphthalene | ND | | 0.50 | 0.060 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | | 0.50 | 0.12 | ug/l | |
| 100-42-5 | Styrene | ND | 100 | 0.50 | 0.058 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | | 0.50 | 0.050 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | | 0.50 | 0.097 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 200 | 0.50 | 0.059 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 0.50 | 0.041 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.0 | 0.50 | 0.075 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | | 0.50 | 0.053 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | | 0.50 | 0.20 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 70 | 0.50 | 0.073 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | | 0.50 | 0.12 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | | 0.50 | 0.091 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 5.0 | 0.50 | 0.12 | ug/l | |
| 108-88-3 | Toluene | ND | 1000 | 0.50 | 0.079 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 5.0 | 0.50 | 0.15 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | | 1.0 | 0.15 | ug/l | |
| 75-65-0 | Tertiary Butyl Alcohol | ND | | 5.0 | 2.4 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 2.0 | 0.50 | 0.12 | ug/l | |
| | m,p-Xylene | ND | | 1.0 | 0.18 | ug/l | |
| 95-47-6 | o-Xylene | ND | | 0.50 | 0.12 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 10000 | 0.50 | 0.12 | ug/l | |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 701 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5664-4 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/04/12 |
| **Method:** | EPA 524.2 REV 4.1 | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 103% | | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 90% | | 77-115% |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 701 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5664-4 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV98115.D | 1 | 05/11/12 | XPL | n/a | n/a | GUV3868 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 85% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 701 BRYANTS NURSERY | | |
| **Lab Sample ID:** | JB5664-4 | **Date Sampled:** | 05/02/12 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 05/04/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Y44761.D | 1 | 05/10/12 | CS | 05/07/12 | OP56782 | G2Y1837 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 87% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 73% | | 32-138% |
| 438-22-2 | 5a-Androstane | 88% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey

ACCUTEST LABORATORIES



# Misc. Forms

## Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

DW

# Shell Oil Products Chain Of Custody Record

URS

LAB (LOCATION)
- [x] ACCUTEST ( )
- [ ] CALSCIENCE ( )
- [ ] TESTAMERICA ( )
- [ ] Other ( )

Lab Vendor # 1813640 (Accutest)

Please Check Appropriate Box:
- [x] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [ ] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER

Print Bill To Contact Name: Adriane Rogers

PO #

INCIDENT # (ENV SERVICES): 9 7 4 3 6 9 7 7

SAP #: 1 3 7 6 7 5

[ ] CHECK IF NO INCIDENT # APPLIES

DATE: 5-3-12

Page 1 of 2

SAMPLING COMPANY: URS CORPORATION

LOG CODE:

ADDRESS: 12420 Milestone Center Drive Suite 150, Germantown, MD 20876

PROJECT CONTACT (Hardcopy or PDF Report to): Adriane Rogers

TELEPHONE: 301-820-3000

FAX: 301-820-3409

Bill To Contact E-MAIL: adriane.rogers@urs.com

SITE ADDRESS: Street and City: 15541 New Hampshire Avenue, Silver Spring

State: MD

GLOBAL ID NO.:

EDF DELIVERABLE TO (Name, Company, Office Location): Adriane Rogers

PHONE NO.: 301-820-3241

E-MAIL: adriane.rogers@urs.com

CONSULTANT PROJECT NO.: 137675

SAMPLER NAME(S) (Print): Robert Burns

LAB USE ONLY: JB5664

TURNAROUND TIME (CALENDAR DAYS):
- [x] STANDARD (14 DAY)
- [ ] 5 DAYS
- [ ] 3 DAYS
- [ ] 2 DAYS
- [ ] 24 HOURS
- [ ] RESULTS NEEDED ON WEEKEND

- [ ] LA - RWQCB REPORT FORMAT
- [ ] UST AGENCY:

DELIVERABLES:
- [ ] LEVEL 1
- [x] LEVEL 2
- [ ] LEVEL 3
- [ ] LEVEL 4
- [ ] OTHER (SPECIFY)

TEMPERATURE ON RECEIPT C°: Cooler #1 2.0°C; Cooler #2; Cooler #3

SPECIAL INSTRUCTIONS OR NOTES:

ALL SAMPLES RECEIVED PRESERVED AS APPLICABLE

- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [ ] RECEIPT VERIFICATION REQUESTED
- [ ] PROVIDE LEDD DISK

REQUESTED ANALYSIS

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

| LAB USE ONLY | Field Sample Identification 5/4/12 | SAMPLING DATE | SAMPLING TIME | MATRIX | PRESERVATIVE HCL | HNO3 | H2SO4 | NONE | OTHER | NO. OF CONT. | Full List VOCs + oxy 5 (524.2) | TPH-GRO | TPH-DRO-RO15 | Container PID Readings or Laboratory Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ~~600 Bryants Nursery~~ | | | DW | x | | | | | ~~3~~ | ~~x~~ | | | |
| | ~~601 Bryants Nursery~~ | | | DW | x | | | | | ~~3~~ | ~~x~~ | | | |
| | ~~610 Bryants Nursery~~ | | | DW | x | | | | | ~~3~~ | ~~x~~ | | | |
| | ~~611 Bryants Nursery~~ | | | DW | x | | | | | ~~3~~ | ~~x~~ | | | |
| | ~~621 Bryants Nursery~~ | | | DW | x | | | | | ~~3~~ | ~~x~~ | | | |
| 1 | 640 Bryants Nursery | 5/4/12 | 1755 | DW | x | | | | | 7 | x | x | x | EX81, 2166 |
| 2 | 650 Bryants Nursery | 5/4/12 | 1740 | DW | x | | | | | 7 | x | x | x | |
| | ~~651 Bryants Nursery~~ | | | DW | x | | | | | ~~3~~ | ~~x~~ | | | |
| | ~~660 Bryants Nursery~~ | | | DW | x | | | | | ~~3~~ | ~~x~~ | | | |
| | ~~661 Bryants Nursery~~ | | | DW | x | | | | | ~~3~~ | ~~x~~ | | | |

No Trip Blank Received

| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
|---|---|---|---|
| | Fed X | | |
| Fed X 8003 2508 8300 | [signature] | 5/4/12 | 0930 |
| | | | |

05/2/06 Revision

JB

4.1

4

**JB5664: Chain of Custody**
**Page 1 of 3**

DW

# Shell Oil Products Chain Of Custody Record

URS

**LAB (LOCATION)**
- [x] ACCUTEST ( )
- [ ] CALSCIENCE ( )
- [ ] TESTAMERICA ( )
- [ ] Other ( )

Lab Vendor # 1813640 (Accutest)

**Please Check Appropriate Box:**
- [x] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [ ] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER

Print Bill To Contact Name: Adriane Rogers

PO #

INCIDENT # (ENV SERVICES): 9 7 4 3 6 9 7 7

SAP #: 1 3 7 6 7 5

[ ] CHECK IF NO INCIDENT # APPLIES

DATE: 5-3-12

Page 2 of 2

SAMPLING COMPANY: URS CORPORATION

LOG CODE:

ADDRESS: 12420 Milestone Center Drive Suite 150, Germantown, MD 20876

PROJECT CONTACT (Hardcopy or PDF Report to): Adriane Rogers

TELEPHONE: 301-820-3000

FAX: 301-820-3409

Bill To Contact E-MAIL: adriane.rogers@urs.com

SITE ADDRESS: Street and City: 15541 New Hampshire Avenue, Silver Spring

State: MD

GLOBAL ID NO.:

EDF DELIVERABLE TO (Name, Company, Office Location): Adriane Rogers

PHONE NO.: 301-820-3241

E-MAIL: adriane.rogers@urs.com

CONSULTANT PROJECT NO.: 137675

SAMPLER NAME(S) (Print): Robert Burns

LAB USE ONLY: JB5664

TURNAROUND TIME (CALENDAR DAYS):
- [x] STANDARD (14 DAY)
- [ ] 5 DAYS
- [ ] 3 DAYS
- [ ] 2 DAYS
- [ ] 24 HOURS
- [ ] RESULTS NEEDED ON WEEKEND
- [ ] LA - RWQCB REPORT FORMAT
- [ ] UST AGENCY:

DELIVERABLES: [ ] LEVEL 1 [x] LEVEL 2 [ ] LEVEL 3 [ ] LEVEL 4 [ ] OTHER (SPECIFY)

TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES:
- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [ ] RECEIPT VERIFICATION REQUESTED
- [ ] PROVIDE LEDD DISK

REQUESTED ANALYSIS

| LAB USE ONLY | Field Sample Identification (5/4/12 TH) | SAMPLING DATE | SAMPLING TIME | MATRIX | PRESERVATIVE HCL | HNO3 | H2SO4 | NONE | OTHER | NO. OF CONT. | Full List VOCs + oxy 5 (524.2) Full List | TPH GRO | TPH DRO-BOS | UNIT COST | NON-UNIT COST |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ~~670 Bryants Nursery~~ | | | DW | x | | | | | ~~3~~ | ~~x~~ | | | | |
| 3 | 700 Bryants Nursery | 5-3-12 | 1000 | DW | x | | | | | 7G | x | X | X | | |
| 4 | 701 Bryants Nursery | 5-3-12 | 1720 | DW | x | | | | | 7G | x | X | X | | |

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

Container PID Readings or Laboratory Notes

| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
|---|---|---|---|
| | Fed Ex | | |
| Fed Ex | | | |
| | | 5/4/12 | 0930 |
| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |

05/2/06 Revision

4.1

4

**JB5664: Chain of Custody**
**Page 2 of 3**

# Accutest Laboratories Sample Receipt Summary

**Accutest Job Number:** JB5664 **Client:** **Project:**

**Date / Time Received:** 5/4/2012 **Delivery Method:** **Airbill #'s:**

**Cooler Temps (Initial/Adjusted):** #1: (2/2); 0

| Cooler Security | Y | N | | Y | N |
|---|---|---|---|---|---|
| 1. Custody Seals Present: | ☑ | ☐ | 3. COC Present: | ☑ | ☐ |
| 2. Custody Seals Intact: | ☑ | ☐ | 4. Smpl Dates/Time OK | ☑ | ☐ |

| Cooler Temperature | Y | N |
|---|---|---|
| 1. Temp criteria achieved: | ☑ | ☐ |
| 2. Cooler temp verification: | Bar Therm | |
| 3. Cooler media: | Ice (Bag) | |
| 4. No. Coolers: | 1 | |

| Quality Control Preservation | Y | N | N/A |
|---|---|---|---|
| 1. Trip Blank present / cooler: | ☐ | ☑ | ☐ |
| 2. Trip Blank listed on COC: | ☐ | ☑ | ☐ |
| 3. Samples preserved properly: | ☑ | ☐ | |
| 4. VOCs headspace free: | ☑ | ☐ | ☐ |

| Sample Integrity - Documentation | Y | N |
|---|---|---|
| 1. Sample labels present on bottles: | ☑ | ☐ |
| 2. Container labeling complete: | ☑ | ☐ |
| 3. Sample container label / COC agree: | ☑ | ☐ |

| Sample Integrity - Condition | Y | N |
|---|---|---|
| 1. Sample recvd within HT: | ☑ | ☐ |
| 2. All containers accounted for: | ☑ | ☐ |
| 3. Condition of sample: | Intact | |

| Sample Integrity - Instructions | Y | N | N/A |
|---|---|---|---|
| 1. Analysis requested is clear: | ☑ | ☐ | |
| 2. Bottles received for unspecified tests | ☐ | ☑ | |
| 3. Sufficient volume recvd for analysis: | ☑ | ☐ | |
| 4. Compositing instructions clear: | ☐ | ☐ | ☑ |
| 5. Filtering instructions clear: | ☐ | ☐ | ☑ |

Comments

Accutest Laboratories
V:732.329.0200
2235 US Highway 130
F: 732.329.3499
Dayton, New Jersey
www/accutest.com

**JB5664: Chain of Custody**
**Page 3 of 3**

New Jersey

ACCUTEST LABORATORIES



# GC/MS Volatiles

## QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

# Method Blank Summary



**Job Number:** JB5664
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V1B3153-MB1 | 1B67919.D | 1 | 05/07/12 | MFH | n/a | n/a | V1B3153 |



**The QC reported here applies to the following samples:** **Method:** EPA 524.2 REV 4.1

JB5664-1, JB5664-2, JB5664-3, JB5664-4

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 5.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone | ND | 5.0 | 1.6 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.047 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 0.50 | 0.13 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 0.50 | 0.13 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.088 | ug/l | |
| 75-25-2 | Bromoform | ND | 0.50 | 0.11 | ug/l | |
| 74-83-9 | Bromomethane | ND | 0.50 | 0.11 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 0.50 | 0.11 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 0.50 | 0.12 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 0.50 | 0.062 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 0.50 | 0.10 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 0.50 | 0.046 | ug/l | |
| 75-00-3 | Chloroethane | ND | 0.50 | 0.16 | ug/l | |
| 67-66-3 | Chloroform | ND | 0.50 | 0.069 | ug/l | |
| 74-87-3 | Chloromethane | ND | 0.50 | 0.095 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 0.50 | 0.069 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 0.50 | 0.048 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.083 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.50 | 0.067 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.50 | 0.14 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 0.50 | 0.095 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.0 | 0.22 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.50 | 0.082 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.11 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.50 | 0.080 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | 0.50 | 0.11 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 0.50 | 0.17 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.075 | ug/l | |
| 74-95-3 | Dibromomethane | ND | 0.50 | 0.11 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 1.0 | 0.10 | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | 0.50 | 0.11 | ug/l | |
| 95-50-1 | o-Dichlorobenzene | ND | 0.50 | 0.073 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 0.50 | 0.063 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.50 | 0.10 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.50 | 0.13 | ug/l | |

# Method Blank Summary



**Job Number:** JB5664
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V1B3153-MB1 | 1B67919.D | 1 | 05/07/12 | MFH | n/a | n/a | V1B3153 |



**The QC reported here applies to the following samples:** **Method:** EPA 524.2 REV 4.1

JB5664-1, JB5664-2, JB5664-3, JB5664-4

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.10 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.094 | ug/l | |
| 108-20-3 | Di-Isopropyl ether | ND | 0.50 | 0.062 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 0.50 | 0.14 | ug/l | |
| 637-92-3 | Ethyl tert Butyl Ether | ND | 0.50 | 0.064 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 2.0 | 0.096 | ug/l | |
| 110-54-3 | Hexane | ND | 0.50 | 0.28 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 2.0 | 0.37 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 0.50 | 0.11 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 0.50 | 0.053 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 0.50 | 0.11 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.50 | 0.068 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 2.0 | 0.47 | ug/l | |
| 91-20-3 | Naphthalene | ND | 0.50 | 0.060 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 0.50 | 0.12 | ug/l | |
| 100-42-5 | Styrene | ND | 0.50 | 0.058 | ug/l | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 0.50 | 0.050 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 0.50 | 0.097 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.50 | 0.059 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.041 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.50 | 0.075 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 0.50 | 0.053 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 0.50 | 0.20 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.50 | 0.073 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.50 | 0.12 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.50 | 0.091 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 0.50 | 0.12 | ug/l | |
| 108-88-3 | Toluene | ND | 0.50 | 0.079 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 0.50 | 0.15 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 1.0 | 0.15 | ug/l | |
| 75-65-0 | Tertiary Butyl Alcohol | ND | 5.0 | 2.4 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 0.50 | 0.12 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.18 | ug/l | |
| 95-47-6 | o-Xylene | ND | 0.50 | 0.12 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 0.50 | 0.12 | ug/l | |

# Method Blank Summary



**Job Number:** JB5664
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V1B3153-MB1 | 1B67919.D | 1 | 05/07/12 | MFH | n/a | n/a | V1B3153 |

**The QC reported here applies to the following samples:** **Method:** EPA 524.2 REV 4.1

JB5664-1, JB5664-2, JB5664-3, JB5664-4

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 101% | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 93% | 77-115% |

# Blank Spike Summary



**Job Number:** JB5664
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V1B3153-BS | 1B67920.D | 1 | 05/07/12 | MFH | n/a | n/a | V1B3153 |



**The QC reported here applies to the following samples:** **Method:** EPA 524.2 REV 4.1

JB5664-1, JB5664-2, JB5664-3, JB5664-4

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | 20 | 22.6 | 113 | 70-130 |
| 78-93-3 | 2-Butanone | 20 | 24.1 | 121 | 70-130 |
| 71-43-2 | Benzene | 5 | 5.4 | 108 | 70-130 |
| 108-86-1 | Bromobenzene | 5 | 5.1 | 102 | 70-130 |
| 74-97-5 | Bromochloromethane | 5 | 5.4 | 108 | 70-130 |
| 75-27-4 | Bromodichloromethane | 5 | 5.2 | 104 | 70-130 |
| 75-25-2 | Bromoform | 5 | 5.3 | 106 | 70-130 |
| 74-83-9 | Bromomethane | 2 | 2.2 | 110 | 70-130 |
| 104-51-8 | n-Butylbenzene | 5 | 5.0 | 100 | 70-130 |
| 135-98-8 | sec-Butylbenzene | 5 | 4.9 | 98 | 70-130 |
| 98-06-6 | tert-Butylbenzene | 5 | 4.7 | 94 | 70-130 |
| 75-15-0 | Carbon disulfide | 5 | 5.5 | 110 | 70-130 |
| 108-90-7 | Chlorobenzene | 5 | 5.1 | 102 | 70-130 |
| 75-00-3 | Chloroethane | 2 | 2.2 | 110 | 70-130 |
| 67-66-3 | Chloroform | 5 | 5.4 | 108 | 70-130 |
| 74-87-3 | Chloromethane | 2 | 2.1 | 105 | 70-130 |
| 95-49-8 | o-Chlorotoluene | 5 | 5.1 | 102 | 70-130 |
| 106-43-4 | p-Chlorotoluene | 5 | 5.0 | 100 | 70-130 |
| 56-23-5 | Carbon tetrachloride | 5 | 5.6 | 112 | 70-130 |
| 75-34-3 | 1,1-Dichloroethane | 5 | 5.5 | 110 | 70-130 |
| 75-35-4 | 1,1-Dichloroethylene | 5 | 5.2 | 104 | 70-130 |
| 563-58-6 | 1,1-Dichloropropene | 5 | 5.4 | 108 | 70-130 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 5 | 5.2 | 104 | 70-130 |
| 106-93-4 | 1,2-Dibromoethane | 5 | 5.2 | 104 | 70-130 |
| 107-06-2 | 1,2-Dichloroethane | 5 | 5.3 | 106 | 70-130 |
| 78-87-5 | 1,2-Dichloropropane | 5 | 5.4 | 108 | 70-130 |
| 142-28-9 | 1,3-Dichloropropane | 5 | 5.2 | 104 | 70-130 |
| 594-20-7 | 2,2-Dichloropropane | 5 | 5.6 | 112 | 70-130 |
| 124-48-1 | Dibromochloromethane | 5 | 5.2 | 104 | 70-130 |
| 74-95-3 | Dibromomethane | 5 | 5.4 | 108 | 70-130 |
| 75-71-8 | Dichlorodifluoromethane | 2 | 2.1 | 105 | 70-130 |
| 541-73-1 | m-Dichlorobenzene | 5 | 5.4 | 108 | 70-130 |
| 95-50-1 | o-Dichlorobenzene | 5 | 5.3 | 106 | 70-130 |
| 106-46-7 | p-Dichlorobenzene | 5 | 5.2 | 104 | 70-130 |
| 156-60-5 | trans-1,2-Dichloroethylene | 5 | 5.4 | 108 | 70-130 |
| 156-59-2 | cis-1,2-Dichloroethylene | 5 | 5.1 | 102 | 70-130 |

# Blank Spike Summary

**Job Number:** JB5664
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V1B3153-BS | 1B67920.D | 1 | 05/07/12 | MFH | n/a | n/a | V1B3153 |



**The QC reported here applies to the following samples:** **Method:** EPA 524.2 REV 4.1

JB5664-1, JB5664-2, JB5664-3, JB5664-4

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | 4.8 | 96 | 70-130 |
| 10061-02-6 | trans-1,3-Dichloropropene | 5 | 5.2 | 104 | 70-130 |
| 108-20-3 | Di-Isopropyl ether | 5 | 4.8 | 96 | 70-130 |
| 100-41-4 | Ethylbenzene | 5 | 4.8 | 96 | 70-130 |
| 637-92-3 | Ethyl tert Butyl Ether | 5 | 4.7 | 94 | 70-130 |
| 87-68-3 | Hexachlorobutadiene | 5 | 5.2 | 104 | 70-130 |
| 110-54-3 | Hexane | 5 | 5.7 | 114 | 70-130 |
| 591-78-6 | 2-Hexanone | 20 | 22.9 | 115 | 70-130 |
| 98-82-8 | Isopropylbenzene | 5 | 4.8 | 96 | 70-130 |
| 99-87-6 | p-Isopropyltoluene | 5 | 5.0 | 100 | 70-130 |
| 75-09-2 | Methylene chloride | 5 | 5.3 | 106 | 70-130 |
| 1634-04-4 | Methyl Tert Butyl Ether | 10 | 10.2 | 102 | 70-130 |
| 108-10-1 | 4-Methyl-2-pentanone | 20 | 23.2 | 116 | 70-130 |
| 91-20-3 | Naphthalene | 5 | 5.0 | 100 | 70-130 |
| 103-65-1 | n-Propylbenzene | 5 | 5.1 | 102 | 70-130 |
| 100-42-5 | Styrene | 5 | 4.8 | 96 | 70-130 |
| 994-05-8 | tert-Amyl Methyl Ether | 5 | 5.0 | 100 | 70-130 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 5 | 5.2 | 104 | 70-130 |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | 5.5 | 110 | 70-130 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | 5.2 | 104 | 70-130 |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | 5.3 | 106 | 70-130 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 5 | 5.3 | 106 | 70-130 |
| 96-18-4 | 1,2,3-Trichloropropane | 5 | 5.3 | 106 | 70-130 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 5 | 5.3 | 106 | 70-130 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 5 | 5.1 | 102 | 70-130 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 5 | 4.9 | 98 | 70-130 |
| 127-18-4 | Tetrachloroethylene | 5 | 5.4 | 108 | 70-130 |
| 108-88-3 | Toluene | 5 | 5.0 | 100 | 70-130 |
| 79-01-6 | Trichloroethylene | 5 | 5.4 | 108 | 70-130 |
| 75-69-4 | Trichlorofluoromethane | 2 | 2.1 | 105 | 70-130 |
| 75-65-0 | Tertiary Butyl Alcohol | 25 | 26.0 | 104 | 70-130 |
| 75-01-4 | Vinyl chloride | 2 | 2.1 | 105 | 70-130 |
| | m,p-Xylene | 10 | 10.1 | 101 | 70-130 |
| 95-47-6 | o-Xylene | 5 | 4.9 | 98 | 70-130 |
| 1330-20-7 | Xylenes (total) | 15 | 15.0 | 100 | 70-130 |

# Blank Spike Summary



**Job Number:** JB5664
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V1B3153-BS | 1B67920.D | 1 | 05/07/12 | MFH | n/a | n/a | V1B3153 |

**The QC reported here applies to the following samples:** **Method:** EPA 524.2 REV 4.1

JB5664-1, JB5664-2, JB5664-3, JB5664-4

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 105% | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 96% | 77-115% |

# Matrix Spike Summary



**Job Number:** JB5664
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5664-2MS | 1B67927.D | 1 | 05/07/12 | MFH | n/a | n/a | V1B3153 |
| JB5664-2 | 1B67922.D | 1 | 05/07/12 | MFH | n/a | n/a | V1B3153 |



**The QC reported here applies to the following samples:** **Method:** EPA 524.2 REV 4.1

JB5664-1, JB5664-2, JB5664-3, JB5664-4

| CAS No. | Compound | JB5664-2 ug/l | Q | Spike ug/l | MS ug/l | MS % | Limits |
|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | | 20 | 20.1 | 101 | 41-142 |
| 78-93-3 | 2-Butanone | ND | | 20 | 22.1 | 111 | 55-129 |
| 71-43-2 | Benzene | ND | | 5 | 5.6 | 112 | 53-138 |
| 108-86-1 | Bromobenzene | ND | | 5 | 5.3 | 106 | 54-138 |
| 74-97-5 | Bromochloromethane | ND | | 5 | 5.6 | 112 | 55-140 |
| 75-27-4 | Bromodichloromethane | ND | | 5 | 5.3 | 106 | 57-147 |
| 75-25-2 | Bromoform | ND | | 5 | 5.0 | 100 | 47-137 |
| 74-83-9 | Bromomethane | ND | | 2 | 2.2 | 110 | 40-162 |
| 104-51-8 | n-Butylbenzene | ND | | 5 | 5.3 | 106 | 45-144 |
| 135-98-8 | sec-Butylbenzene | ND | | 5 | 5.4 | 108 | 46-145 |
| 98-06-6 | tert-Butylbenzene | ND | | 5 | 5.1 | 102 | 48-141 |
| 75-15-0 | Carbon disulfide | ND | | 5 | 5.1 | 102 | 35-127 |
| 108-90-7 | Chlorobenzene | ND | | 5 | 5.3 | 106 | 54-135 |
| 75-00-3 | Chloroethane | ND | | 2 | 2.4 | 120 | 38-153 |
| 67-66-3 | Chloroform | ND | | 5 | 5.5 | 110 | 57-151 |
| 74-87-3 | Chloromethane | ND | | 2 | 2.2 | 110 | 39-165 |
| 95-49-8 | o-Chlorotoluene | ND | | 5 | 5.4 | 108 | 55-142 |
| 106-43-4 | p-Chlorotoluene | ND | | 5 | 5.3 | 106 | 55-139 |
| 56-23-5 | Carbon tetrachloride | ND | | 5 | 6.3 | 126 | 49-170 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 5 | 5.7 | 114 | 55-149 |
| 75-35-4 | 1,1-Dichloroethylene | ND | | 5 | 5.9 | 118 | 42-142 |
| 563-58-6 | 1,1-Dichloropropene | ND | | 5 | 6.1 | 122 | 46-151 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | | 5 | 5.4 | 108 | 48-141 |
| 106-93-4 | 1,2-Dibromoethane | ND | | 5 | 5.3 | 106 | 57-135 |
| 107-06-2 | 1,2-Dichloroethane | ND | | 5 | 5.5 | 110 | 59-166 |
| 78-87-5 | 1,2-Dichloropropane | ND | | 5 | 5.5 | 110 | 53-142 |
| 142-28-9 | 1,3-Dichloropropane | ND | | 5 | 5.4 | 108 | 58-143 |
| 594-20-7 | 2,2-Dichloropropane | ND | | 5 | 6.3 | 126 | 38-165 |
| 124-48-1 | Dibromochloromethane | ND | | 5 | 5.2 | 104 | 55-138 |
| 74-95-3 | Dibromomethane | ND | | 5 | 5.3 | 106 | 61-144 |
| 75-71-8 | Dichlorodifluoromethane | ND | | 2 | 2.6 | 130 | 23-172 |
| 541-73-1 | m-Dichlorobenzene | ND | | 5 | 5.5 | 110 | 53-138 |
| 95-50-1 | o-Dichlorobenzene | ND | | 5 | 5.4 | 108 | 54-140 |
| 106-46-7 | p-Dichlorobenzene | ND | | 5 | 5.4 | 108 | 53-137 |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | | 5 | 5.8 | 116 | 47-148 |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | | 5 | 5.4 | 108 | 51-146 |

# Matrix Spike Summary

**Job Number:** JB5664
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5664-2MS | 1B67927.D | 1 | 05/07/12 | MFH | n/a | n/a | V1B3153 |
| JB5664-2 | 1B67922.D | 1 | 05/07/12 | MFH | n/a | n/a | V1B3153 |

**The QC reported here applies to the following samples:** **Method:** EPA 524.2 REV 4.1

JB5664-1, JB5664-2, JB5664-3, JB5664-4

| CAS No. | Compound | JB5664-2 ug/l | Q | Spike ug/l | MS ug/l | MS % | Limits |
|---|---|---|---|---|---|---|---|
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 5 | 4.9 | 98 | 51-136 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 5 | 5.0 | 100 | 54-142 |
| 108-20-3 | Di-Isopropyl ether | ND | | 5 | 4.5 | 90 | 38-142 |
| 100-41-4 | Ethylbenzene | ND | | 5 | 5.1 | 102 | 51-138 |
| 637-92-3 | Ethyl tert Butyl Ether | ND | | 5 | 4.4 | 88 | 49-134 |
| 87-68-3 | Hexachlorobutadiene | ND | | 5 | 5.9 | 118 | 40-154 |
| 110-54-3 | Hexane | ND | | 5 | 6.6 | 132 | 22-142 |
| 591-78-6 | 2-Hexanone | ND | | 20 | 21.2 | 106 | 53-128 |
| 98-82-8 | Isopropylbenzene | ND | | 5 | 5.1 | 102 | 49-139 |
| 99-87-6 | p-Isopropyltoluene | ND | | 5 | 5.3 | 106 | 45-141 |
| 75-09-2 | Methylene chloride | ND | | 5 | 5.4 | 108 | 54-137 |
| 1634-04-4 | Methyl Tert Butyl Ether | 0.60 | | 5 | 5.5 | 98 | 53-143 |
| 108-10-1 | 4-Methyl-2-pentanone | ND | | 20 | 21.1 | 106 | 58-127 |
| 91-20-3 | Naphthalene | ND | | 5 | 4.7 | 94 | 44-140 |
| 103-65-1 | n-Propylbenzene | ND | | 5 | 5.4 | 108 | 50-142 |
| 100-42-5 | Styrene | ND | | 5 | 4.9 | 98 | 23-130 |
| 994-05-8 | tert-Amyl Methyl Ether | ND | | 5 | 4.5 | 90 | 51-125 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | | 5 | 5.6 | 112 | 57-144 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 5 | 6.1 | 122 | 52-164 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 5 | 5.5 | 110 | 58-138 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | | 5 | 5.4 | 108 | 59-139 |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | | 5 | 5.2 | 104 | 47-141 |
| 96-18-4 | 1,2,3-Trichloropropane | ND | | 5 | 5.5 | 110 | 56-148 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | | 5 | 5.1 | 102 | 46-137 |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | | 5 | 5.2 | 104 | 41-138 |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | | 5 | 5.2 | 104 | 45-138 |
| 127-18-4 | Tetrachloroethylene | ND | | 5 | 6.2 | 124 | 45-145 |
| 108-88-3 | Toluene | ND | | 5 | 5.4 | 108 | 52-134 |
| 79-01-6 | Trichloroethylene | ND | | 5 | 5.7 | 114 | 54-143 |
| 75-69-4 | Trichlorofluoromethane | ND | | 2 | 2.5 | 125 | 36-167 |
| 75-65-0 | Tertiary Butyl Alcohol | ND | | 25 | 25.7 | 103 | 61-132 |
| 75-01-4 | Vinyl chloride | ND | | 2 | 2.4 | 120 | 35-162 |
| | m,p-Xylene | ND | | 10 | 10.8 | 108 | 49-135 |
| 95-47-6 | o-Xylene | ND | | 5 | 5.2 | 104 | 49-134 |
| 1330-20-7 | Xylenes (total) | ND | | 15 | 15.9 | 106 | 50-134 |

# Matrix Spike Summary



**Job Number:** JB5664
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5664-2MS | 1B67927.D | 1 | 05/07/12 | MFH | n/a | n/a | V1B3153 |
| JB5664-2 | 1B67922.D | 1 | 05/07/12 | MFH | n/a | n/a | V1B3153 |

**The QC reported here applies to the following samples:** **Method:** EPA 524.2 REV 4.1

JB5664-1, JB5664-2, JB5664-3, JB5664-4

| CAS No. | Surrogate Recoveries | MS | JB5664-2 | Limits |
|---|---|---|---|---|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 104% | 102% | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 95% | 91% | 77-115% |

# Duplicate Summary



**Job Number:** JB5664
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5664-3DUP | 1B67928.D | 1 | 05/07/12 | MFH | n/a | n/a | V1B3153 |
| JB5664-3 | 1B67923.D | 1 | 05/07/12 | MFH | n/a | n/a | V1B3153 |



**The QC reported here applies to the following samples:** **Method:** EPA 524.2 REV 4.1

JB5664-1, JB5664-2, JB5664-3, JB5664-4

| CAS No. | Compound | JB5664-3 ug/l | Q | DUP ug/l | Q | RPD | Limits |
|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | | ND | | nc | 10 |
| 78-93-3 | 2-Butanone | ND | | ND | | nc | 12 |
| 71-43-2 | Benzene | ND | | ND | | nc | 10 |
| 108-86-1 | Bromobenzene | ND | | ND | | nc | 10 |
| 74-97-5 | Bromochloromethane | ND | | ND | | nc | 10 |
| 75-27-4 | Bromodichloromethane | ND | | ND | | nc | 10 |
| 75-25-2 | Bromoform | ND | | ND | | nc | 10 |
| 74-83-9 | Bromomethane | ND | | ND | | nc | 10 |
| 104-51-8 | n-Butylbenzene | ND | | ND | | nc | 10 |
| 135-98-8 | sec-Butylbenzene | ND | | ND | | nc | 10 |
| 98-06-6 | tert-Butylbenzene | ND | | ND | | nc | 10 |
| 75-15-0 | Carbon disulfide | ND | | ND | | nc | 19 |
| 108-90-7 | Chlorobenzene | ND | | ND | | nc | 10 |
| 75-00-3 | Chloroethane | ND | | ND | | nc | 10 |
| 67-66-3 | Chloroform | 0.17 | J | 0.16 | J | 6 | 12 |
| 74-87-3 | Chloromethane | ND | | ND | | nc | 10 |
| 95-49-8 | o-Chlorotoluene | ND | | ND | | nc | 10 |
| 106-43-4 | p-Chlorotoluene | ND | | ND | | nc | 10 |
| 56-23-5 | Carbon tetrachloride | ND | | ND | | nc | 10 |
| 75-34-3 | 1,1-Dichloroethane | ND | | ND | | nc | 10 |
| 75-35-4 | 1,1-Dichloroethylene | ND | | ND | | nc | 10 |
| 563-58-6 | 1,1-Dichloropropene | ND | | ND | | nc | 10 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | | ND | | nc | 10 |
| 106-93-4 | 1,2-Dibromoethane | ND | | ND | | nc | 10 |
| 107-06-2 | 1,2-Dichloroethane | 0.25 | J | 0.26 | J | 4 | 10 |
| 78-87-5 | 1,2-Dichloropropane | ND | | ND | | nc | 10 |
| 142-28-9 | 1,3-Dichloropropane | ND | | ND | | nc | 10 |
| 594-20-7 | 2,2-Dichloropropane | ND | | ND | | nc | 10 |
| 124-48-1 | Dibromochloromethane | ND | | ND | | nc | 10 |
| 74-95-3 | Dibromomethane | ND | | ND | | nc | 10 |
| 75-71-8 | Dichlorodifluoromethane | ND | | ND | | nc | 10 |
| 541-73-1 | m-Dichlorobenzene | ND | | ND | | nc | 10 |
| 95-50-1 | o-Dichlorobenzene | ND | | ND | | nc | 10 |
| 106-46-7 | p-Dichlorobenzene | ND | | ND | | nc | 10 |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | | ND | | nc | 10 |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | | ND | | nc | 10 |

# Duplicate Summary

**Job Number:** JB5664
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5664-3DUP | 1B67928.D | 1 | 05/07/12 | MFH | n/a | n/a | V1B3153 |
| JB5664-3 | 1B67923.D | 1 | 05/07/12 | MFH | n/a | n/a | V1B3153 |



**The QC reported here applies to the following samples:** **Method:** EPA 524.2 REV 4.1

JB5664-1, JB5664-2, JB5664-3, JB5664-4

| CAS No. | Compound | JB5664-3 ug/l | Q | DUP ug/l | Q | RPD | Limits |
|---|---|---|---|---|---|---|---|
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | ND | | nc | 10 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | ND | | nc | 10 |
| 108-20-3 | Di-Isopropyl ether | 0.12 | J | 0.12 | J | 0 | 10 |
| 100-41-4 | Ethylbenzene | ND | | ND | | nc | 10 |
| 637-92-3 | Ethyl tert Butyl Ether | ND | | ND | | nc | 10 |
| 87-68-3 | Hexachlorobutadiene | ND | | ND | | nc | 10 |
| 110-54-3 | Hexane | ND | | ND | | nc | 10 |
| 591-78-6 | 2-Hexanone | ND | | ND | | nc | 10 |
| 98-82-8 | Isopropylbenzene | ND | | ND | | nc | 10 |
| 99-87-6 | p-Isopropyltoluene | ND | | ND | | nc | 10 |
| 75-09-2 | Methylene chloride | ND | | ND | | nc | 10 |
| 1634-04-4 | Methyl Tert Butyl Ether | 0.93 | | 0.92 | | 1 | 10 |
| 108-10-1 | 4-Methyl-2-pentanone | ND | | ND | | nc | 10 |
| 91-20-3 | Naphthalene | ND | | ND | | nc | 10 |
| 103-65-1 | n-Propylbenzene | ND | | ND | | nc | 10 |
| 100-42-5 | Styrene | ND | | ND | | nc | 10 |
| 994-05-8 | tert-Amyl Methyl Ether | ND | | ND | | nc | 10 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | | ND | | nc | 10 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | ND | | nc | 10 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | ND | | nc | 10 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | | ND | | nc | 10 |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | | ND | | nc | 10 |
| 96-18-4 | 1,2,3-Trichloropropane | ND | | ND | | nc | 10 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | | ND | | nc | 10 |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | | ND | | nc | 10 |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | | ND | | nc | 10 |
| 127-18-4 | Tetrachloroethylene | ND | | ND | | nc | 10 |
| 108-88-3 | Toluene | ND | | ND | | nc | 10 |
| 79-01-6 | Trichloroethylene | ND | | ND | | nc | 10 |
| 75-69-4 | Trichlorofluoromethane | ND | | ND | | nc | 10 |
| 75-65-0 | Tertiary Butyl Alcohol | ND | | ND | | nc | 10 |
| 75-01-4 | Vinyl chloride | ND | | ND | | nc | 10 |
| | m,p-Xylene | ND | | ND | | nc | 10 |
| 95-47-6 | o-Xylene | ND | | ND | | nc | 10 |
| 1330-20-7 | Xylenes (total) | ND | | ND | | nc | 10 |

# Duplicate Summary



**Job Number:** JB5664
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5664-3DUP | 1B67928.D | 1 | 05/07/12 | MFH | n/a | n/a | V1B3153 |
| JB5664-3 | 1B67923.D | 1 | 05/07/12 | MFH | n/a | n/a | V1B3153 |

**The QC reported here applies to the following samples:** **Method:** EPA 524.2 REV 4.1

JB5664-1, JB5664-2, JB5664-3, JB5664-4

| CAS No. | Surrogate Recoveries | DUP | JB5664-3 | Limits |
|---|---|---|---|---|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 97% | 98% | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 89% | 91% | 77-115% |

# Instrument Performance Check (BFB)



**Job Number:** JB5664
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Sample:** V1B3141-BFB
**Lab File ID:** 1B67694.D
**Instrument ID:** GCMS1B
**Injection Date:** 04/26/12
**Injection Time:** 13:21



| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 1874 | 15.6 | | Pass |
| 75 | 30.0 - 80.0% of mass 95 | 5585 | 46.4 | | Pass |
| 95 | Base peak, 100% relative abundance | 12026 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 830 | 6.90 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 9721 | 80.8 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 774 | 6.44 | (7.96) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 9620 | 80.0 | (99.0) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 631 | 5.25 | (6.56) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V1B3141-ICC3141 | 1B67695.D | 04/26/12 | 13:53 | 00:32 | Initial cal 10 |
| V1B3141-IC3141 | 1B67696.D | 04/26/12 | 14:25 | 01:04 | Initial cal 1 |
| V1B3141-IC3141 | 1B67697.D | 04/26/12 | 14:57 | 01:36 | Initial cal 5 |
| V1B3141-IC3141 | 1B67698.D | 04/26/12 | 15:29 | 02:08 | Initial cal 2 |
| V1B3141-IC3141 | 1B67699.D | 04/26/12 | 16:01 | 02:40 | Initial cal 0.5 |
| V1B3141-IC3141 | 1B67700.D | 04/26/12 | 16:33 | 03:12 | Initial cal 20 |
| V1B3141-IC3141 | 1B67701.D | 04/26/12 | 17:05 | 03:44 | Initial cal 40 |
| V1B3141-ICV3141 | 1B67704.D | 04/26/12 | 19:13 | 05:52 | Initial cal verification 10 |

# Instrument Performance Check (BFB)



**Job Number:** JB5664
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Sample:** V1B3153-BFB
**Lab File ID:** 1B67917.D
**Instrument ID:** GCMS1B
**Injection Date:** 05/07/12
**Injection Time:** 09:34



| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 1569 | 16.0 | | Pass |
| 75 | 30.0 - 80.0% of mass 95 | 4348 | 44.3 | | Pass |
| 95 | Base peak, 100% relative abundance | 9807 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 727 | 7.41 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 8224 | 83.9 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 602 | 6.14 | (7.32) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 7929 | 80.9 | (96.4) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 555 | 5.66 | (7.00) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V1B3153-CC3141 | 1B67918.D | 05/07/12 | 10:06 | 00:32 | Continuing cal 10 |
| V1B3153-MB1 | 1B67919.D | 05/07/12 | 10:46 | 01:12 | Method Blank |
| V1B3153-BS | 1B67920.D | 05/07/12 | 11:29 | 01:55 | Blank Spike |
| JB5664-1 | 1B67921.D | 05/07/12 | 12:09 | 02:35 | 640 BRYANTS NURSERY |
| JB5664-2 | 1B67922.D | 05/07/12 | 12:41 | 03:07 | 650 BRYANTS NURSERY |
| JB5664-3 | 1B67923.D | 05/07/12 | 13:13 | 03:39 | 700 BRYANTS NURSERY |
| JB5664-4 | 1B67924.D | 05/07/12 | 13:45 | 04:11 | 701 BRYANTS NURSERY |
| ZZZZZZ | 1B67925.D | 05/07/12 | 14:17 | 04:43 | (unrelated sample) |
| ZZZZZZ | 1B67926.D | 05/07/12 | 14:49 | 05:15 | (unrelated sample) |
| JB5664-2MS | 1B67927.D | 05/07/12 | 15:21 | 05:47 | Matrix Spike |
| JB5664-3DUP | 1B67928.D | 05/07/12 | 15:53 | 06:19 | Duplicate |
| ZZZZZZ | 1B67929.D | 05/07/12 | 16:25 | 06:51 | (unrelated sample) |
| ZZZZZZ | 1B67930.D | 05/07/12 | 16:57 | 07:23 | (unrelated sample) |
| ZZZZZZ | 1B67931.D | 05/07/12 | 17:29 | 07:55 | (unrelated sample) |
| ZZZZZZ | 1B67932.D | 05/07/12 | 18:01 | 08:27 | (unrelated sample) |
| ZZZZZZ | 1B67933.D | 05/07/12 | 18:33 | 08:59 | (unrelated sample) |
| ZZZZZZ | 1B67934.D | 05/07/12 | 19:05 | 09:31 | (unrelated sample) |
| ZZZZZZ | 1B67935.D | 05/07/12 | 19:37 | 10:03 | (unrelated sample) |
| ZZZZZZ | 1B67936.D | 05/07/12 | 20:09 | 10:35 | (unrelated sample) |
| ZZZZZZ | 1B67937.D | 05/07/12 | 20:41 | 11:07 | (unrelated sample) |
| ZZZZZZ | 1B67938.D | 05/07/12 | 21:13 | 11:39 | (unrelated sample) |

# Volatile Surrogate Recovery Summary



**Job Number:** JB5664
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Method:** EPA 524.2 REV 4.1 **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 | S2 |
|---|---|---|---|
| JB5664-1 | 1B67921.D | 101.0 | 90.0 |
| JB5664-2 | 1B67922.D | 102.0 | 91.0 |
| JB5664-3 | 1B67923.D | 98.0 | 91.0 |
| JB5664-4 | 1B67924.D | 103.0 | 90.0 |
| JB5664-2MS | 1B67927.D | 104.0 | 95.0 |
| JB5664-3DUP | 1B67928.D | 97.0 | 89.0 |
| V1B3153-BS | 1B67920.D | 105.0 | 96.0 |
| V1B3153-MB1 | 1B67919.D | 101.0 | 93.0 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = 1,2-Dichlorobenzene-d4 | 78-114% |
| **S2** = 4-Bromofluorobenzene | 77-115% |

New Jersey
ACCUTEST LABORATORIES



# GC Volatiles

## QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

# Method Blank Summary



**Job Number:** JB5664
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| GUV3868-MB1 | UV98111.D | 1 | 05/11/12 | XPL | n/a | n/a | GUV3868 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB5664-1, JB5664-2, JB5664-3, JB5664-4

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 82% | 68-114% |

# Blank Spike Summary



**Job Number:** JB5664
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| GUV3868-BS | UV98120.D | 1 | 05/11/12 | XPL | n/a | n/a | GUV3868 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB5664-1, JB5664-2, JB5664-3, JB5664-4

| CAS No. | Compound | Spike mg/l | BSP mg/l | BSP % | Limits |
|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 8 | 8.08 | 101 | 72-125 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 106% | 68-114% |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB5664
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB5664-1MS | UV98118.D | 1 | 05/11/12 | XPL | n/a | n/a | GUV3868 |
| JB5664-1MSD | UV98119.D | 1 | 05/11/12 | XPL | n/a | n/a | GUV3868 |
| JB5664-1 | UV98112.D | 1 | 05/11/12 | XPL | n/a | n/a | GUV3868 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB5664-1, JB5664-2, JB5664-3, JB5664-4

| CAS No. | Compound | JB5664-1 mg/l | Q | Spike mg/l | MS mg/l | MS % | MSD mg/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | | 8 | 7.41 | 93 | 7.34 | 92 | 1 | 46-131/20 |

| CAS No. | Surrogate Recoveries | MS | MSD | JB5664-1 | Limits |
|---|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 97% | 98% | 82% | 68-114% |

# Volatile Surrogate Recovery Summary



**Job Number:** JB5664
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Method:** SW846 8015C **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 [a] |
|---|---|---|
| JB5664-1 | UV98112.D | 82.0 |
| JB5664-2 | UV98113.D | 81.0 |
| JB5664-3 | UV98114.D | 84.0 |
| JB5664-4 | UV98115.D | 85.0 |
| GUV3868-BS | UV98120.D | 106.0 |
| GUV3868-MB1 | UV98111.D | 82.0 |
| JB5664-1MS | UV98118.D | 97.0 |
| JB5664-1MSD | UV98119.D | 98.0 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = aaa-Trifluorotoluene | 68-114% |

(a) Recovery from GC signal #1

New Jersey
ACCUTEST LABORATORIES



# GC Semi-volatiles

## QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

# Method Blank Summary



**Job Number:** JB5664
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP56782-MB1 | 2Y44749.D | 1 | 05/10/12 | CS | 05/07/12 | OP56782 | G2Y1837 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB5664-1, JB5664-2, JB5664-3, JB5664-4

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 84-15-1 | o-Terphenyl | 77% | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 65% | 32-138% |
| 438-22-2 | 5a-Androstane | 76% | 31-136% |

# Blank Spike Summary



**Job Number:** JB5664
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP56782-BS1 | 2Y44750.D | 1 | 05/10/12 | CS | 05/07/12 | OP56782 | G2Y1837 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB5664-1, JB5664-2, JB5664-3, JB5664-4

| CAS No. | Compound | Spike mg/l | BSP mg/l | BSP % | Limits |
|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | 1 | 0.873 | 87 | 15-111 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 84-15-1 | o-Terphenyl | 87% | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 74% | 32-138% |
| 438-22-2 | 5a-Androstane | 88% | 31-136% |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB5664
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP56782-MS | 2Y44751.D | 1 | 05/10/12 | CS | 05/07/12 | OP56782 | G2Y1837 |
| OP56782-MSD | 2Y44752.D | 1 | 05/10/12 | CS | 05/07/12 | OP56782 | G2Y1837 |
| JB5665-1 | 2Y44762.D | 1 | 05/10/12 | CS | 05/07/12 | OP56782 | G2Y1837 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB5664-1, JB5664-2, JB5664-3, JB5664-4

| CAS No. | Compound | JB5665-1 mg/l | Q | Spike mg/l | MS mg/l | MS % | MSD mg/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | | 2.08 | 1.81 | 87 | 1.91 | 92 | 5 | 23-160/31 |

| CAS No. | Surrogate Recoveries | MS | MSD | JB5665-1 | Limits |
|---|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 80% | 84% | 90% | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 64% | 65% | 67% | 32-138% |
| 438-22-2 | 5a-Androstane | 75% | 77% | 78% | 31-136% |

# Semivolatile Surrogate Recovery Summary



**Job Number:** JB5664
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Method:** SW846 8015C **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 [a] | S2 [a] | S3 [a] |
|---|---|---|---|---|
| JB5664-1 | 2Y44756.D | 50.0 | 46.0 | 54.0 |
| JB5664-2 | 2Y44757.D | 75.0 | 65.0 | 73.0 |
| JB5664-3 | 2Y44760.D | 75.0 | 68.0 | 77.0 |
| JB5664-4 | 2Y44761.D | 87.0 | 73.0 | 88.0 |
| OP56782-BS1 | 2Y44750.D | 87.0 | 74.0 | 88.0 |
| OP56782-MB1 | 2Y44749.D | 77.0 | 65.0 | 76.0 |
| OP56782-MS | 2Y44751.D | 80.0 | 64.0 | 75.0 |
| OP56782-MSD | 2Y44752.D | 84.0 | 65.0 | 77.0 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = o-Terphenyl | 36-144% |
| **S2** = Tetracosane-d50 | 32-138% |
| **S3** = 5a-Androstane | 31-136% |

(a) Recovery from GC signal #1

# Appendix D

# Soil Boring Log and Well Construction Diagram

# DRILLING LOG (Hollow Stem Auger)

HOLE NUMBER: RW-27

PROJECT: Shell #137675 - 15541 New Hampshire Ave

LOGGED BY: Matt Costakis

SHEET 1 OF 2 SHEETS

DRILLING COMPANY: SGS

DATE: 3/5/2012 - 3/6/2012

START TIME: 1115 3/5/2012

END TIME: 0930 3/6/2012

| ELEV. | DEPTH (b) | DESCRIPTION OF MATERIALS | DTW | PID | DRIVEN/ RECOVERED | BLOW COUNT (Middle Two Intervals) | REMARKS |
|---|---|---|---|---|---|---|---|
| | 0 | | | | | | |
| | 2 | | | | | | |
| | 4 | | | | | | 0-5 FEET Cleared with air knife |
| | 6 | 5-7 FEET; reddish tan micaceous silt | | 0.0 | 24/24 | 41/46 | |
| | 8 | 7-9 FEET; reddish tan micaceous silt<br>some white and black micaceous veins<br>trace mineral structure | | 0.0 | 24/24 | 103/70 | |
| | 10 | 9-11 FEET; tan-red foliated micaceous silt,<br>trace mineral structure | | 0.0 | 24/24 | 55/80 | |
| | 12 | 11-13 FEET; red micaceous silt, some clay<br>white and black foliations/mottling | | 0.0 | 24/24 | 48/49 | |
| | 14 | 13-15 FEET; red-brown foliated micaceous silt<br>some mineral structure | | 0.0 | 24/24 | 31/47 | |
| | 16 | 15 - 17 FEET; red-brown foliated micaceous silt<br>some mineral structure | | 0.0 | 24/24 | 38/50 | |
| | 18 | 17 - 19 FEET; red-brown foliated micaceous silt<br>some mineral structure | | 0.0 | 24/24 | 45/48 | |
| | 20 | 19 - 21 FEET; brown-red silt, moist<br>less prevalent mineral structure | ▼ | 0.0 | 24/24 | 21/36 | Sample Collected<br>RW-27-19-21<br>Time: 1420<br>3/5/2012 |
| | 22 | 21 - 23 FEET; red foliated micaceous silt<br>some mineral structure | | 0.0 | 24/24 | 40/70 | |
| | 24 | 23 - 25 FEET; brown-red-black foliated micaceous silt - saprolite<br>prevalent mineral structure | | 0.0 | 24/12 | 64/193 | |
| | 26 | 25 - 27 FEET; brown-red-black foliated micaceous silt - saprolite<br>prevalent mineral structure | | 0.0 | 24/24 | 59/92 | |
| | 28 | 27 - 29 FEET; brown-red-black foliated micaceous silt - saprolite<br>prevalent mineral structure | | 0.0 | 24/24 | 47/59 | |
| | 30 | 29 - 31 FEET; dark brown-red micaceous saprolite | | 0.0 | 24/18 | 56/71 | |
| | 32 | 31 - 33 FEET; dark brown-red saporlite | | 0.0 | 24/12 | 76 - 100/4 | Refusal |
| | | Spoon Refusal @ 32.5 FEET<br>Remainder of the Boring Logged from Cuttings | | | | | |
| | 34 | | | | | | |

# DRILLING LOG (Hollow Stem Auger)

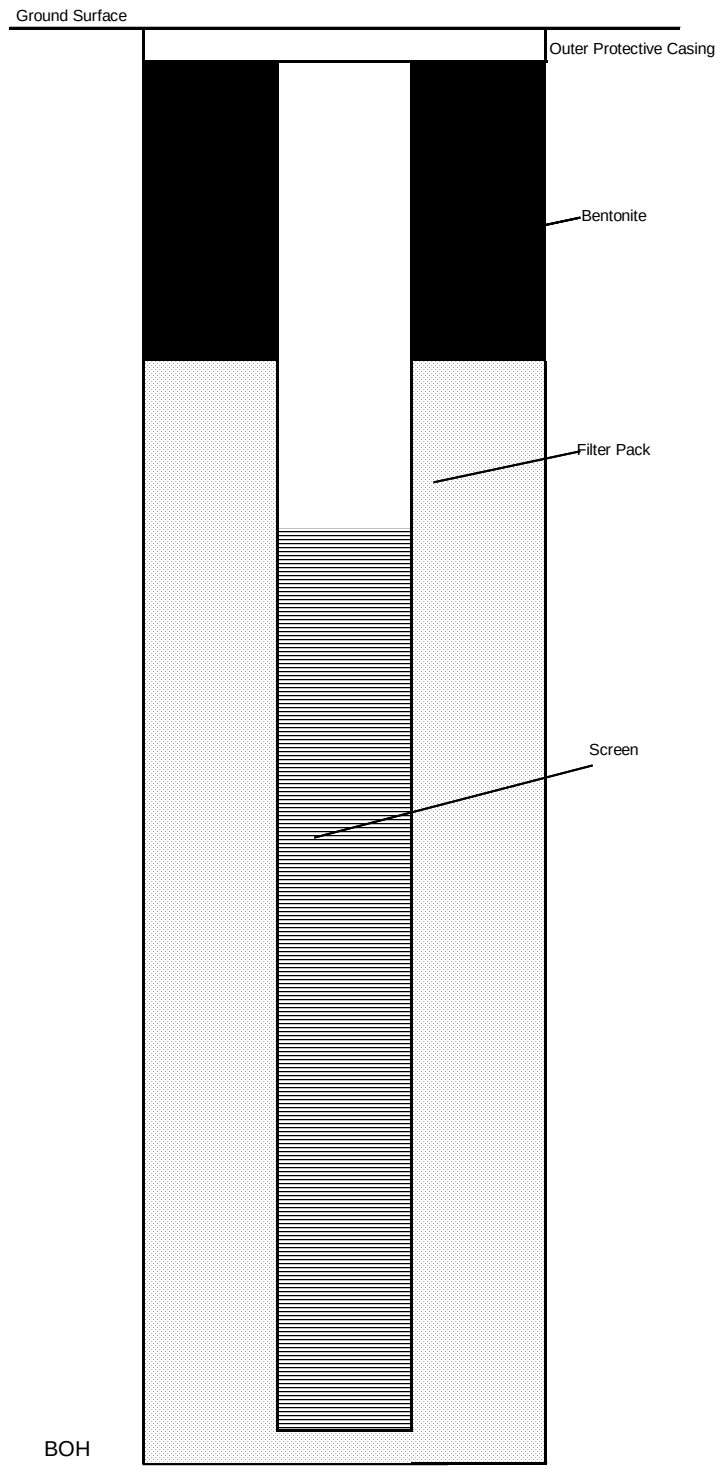
| HOLE NUMBER | PROJECT | LOGGED BY | SHEET / SHEETS |
|---|---|---|---|
| RW-27 | Shell #137675 - 15541 New Hampshire Ave | Matt Costakis | 2 OF 2 |

| DRILLING COMPANY: | DATE | START TIME | END TIME |
|---|---|---|---|
| SGS | 3/5/2012 - 3/6/2012 | 1115 3/5/2012 | 0930 3/6/2012 |

| ELEV. | DEPTH (b) | DESCRIPTION OF MATERIALS | DTW | PID | DRIVEN/ RECOVERED | BLOW COUNT (Middle Two Intervals) | REMARKS |
|---|---|---|---|---|---|---|---|
| | 36 | | | | | | |
| | 38 | Cuttings show red-brown silt - saprolite from spoon refusal to a depth of approximately 45-46 FEET bgs | | | | | |
| | 40 | | | | | | |
| | 42 | | | | | | |
| | 44 | | | | | | |
| | 46 | Weathered Bedrock encountered at approximately 45-46 FEET bgs suggest by rig chatter and slowed auger advancement | | | | | |
| | 48 | | | | | | |
| | 50 | **Auger Refusal @ 51 FEET** | | | | | |
| | 52 | | | | | | |
| | 54 | | | | | | |
| | 56 | | | | | | |
| | 58 | | | | | | |
| | 60 | | | | | | |

# WELL CONSTRUCTION DIAGRAM

| | | |
|---|---|---|
| **HOLE NUMBER:** RW-27 | **LOCATION:** Shell #137675 | **DRILLER:** SGS |
| **PROJECT:** Recovery Well Installation | 15541 New Hampshire Ave | **DRILLING METHOD:** Hollow Stem Auger |
| **DATE WELL COMPLETED:** 3/7/12 | **INSPECTOR:** Matt Costakis | **DEPTH TO GROUNDWATER:** 21.5 feet |




| | | |
|---|---|---|
| TOP OF RISER PIPE TO GROUND SURFACE: | 6.00 | inches |
| TYPE OF SURFACE SEAL: | Concrete | |
| DEPTH OF SEAL: | 1.00 | feet |
| I.D. OF SURFACE CASING: | 12.00 | inches |
| TYPE OF SURFACE CASING: | Steel | |
| I.D.OF RISER PIPE: | 6.00 | inches |
| TYPE OF RISER PIPE: | PVC | |
| TYPE OF GROUT: | Bentonite Grout | |
| DEPTH TO TOP OF SEAL: | 6.00 | feet |
| TYPE OF SEAL: | Bentonite Pellet | |
| DEPTH TO TOP OF FILTER PACK: | 8.00 | feet |
| TYPE OF FILTER PACK: | #2 Filter Sand | |
| DEPTH TO TOP OF SCREEN: | 10.00 | feet |
| TYPE OF SCREEN: | PVC | |
| SLOT SIZE AND LENGTH: | 0.02 | |
| I.D. OF SCREEN: | 6.00 | inches |
| DEPTH TO BOTTOM OF SCREEN: | 50.00 | feet |
| BOREHOLE DIAMETER: | 8.00 | inches |
| BOTTOM OF HOLE: | 51.00 | feet |

# Appendix E

# Soil Laboratory Analytical Report

New Jersey
ACCUTEST LABORATORIES

03/13/12

# Technical Report for

Shell Oil Products US

URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

INC#97436977

Accutest Job Number: JB911

Sampling Date: 03/05/12

Report to:

URS Corporation
12420 Milestone Center Drive Suite 150
Germantown, MD 20876
jenna_anthony@urscorp.com; adriane_rogers@urscorp.com

ATTN: Jenna Anthony

Total number of pages in report: **38**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul Ioannidis
Lab Director

Client Service contact: Marty Vitanza 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.



Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

# Table of Contents

-1-

**Section 1: Sample Summary** ..... **3**
**Section 2: Case Narrative/Conformance Summary** ..... **4**
**Section 3: Sample Results** ..... **6**
**3.1:** JB911-1: 137675-RW-27-19-21 ..... 7
**Section 4: Misc. Forms** ..... **12**
**4.1:** Chain of Custody ..... 13
**Section 5: GC/MS Volatiles - QC Data Summaries** ..... **15**
**5.1:** Method Blank Summary ..... 16
**5.2:** Blank Spike Summary ..... 19
**5.3:** Matrix Spike/Matrix Spike Duplicate Summary ..... 22
**5.4:** Instrument Performance Checks (BFB) ..... 25
**5.5:** Surrogate Recovery Summaries ..... 27
**Section 6: GC Volatiles - QC Data Summaries** ..... **28**
**6.1:** Method Blank Summary ..... 29
**6.2:** Blank Spike Summary ..... 31
**6.3:** Matrix Spike/Matrix Spike Duplicate Summary ..... 32
**6.4:** Surrogate Recovery Summaries ..... 33
**Section 7: GC Semi-volatiles - QC Data Summaries** ..... **34**
**7.1:** Method Blank Summary ..... 35
**7.2:** Blank Spike Summary ..... 36
**7.3:** Matrix Spike/Matrix Spike Duplicate Summary ..... 37
**7.4:** Surrogate Recovery Summaries ..... 38

Accutest Laboratories

# Sample Summary

Shell Oil Products US

**Job No:** JB911

URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD
Project No: INC#97436977

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| JB911-1 | 03/05/12 | 14:20 | MC | 03/07/12 | SO | Soil | 137675-RW-27-19-21 |

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

# CASE NARRATIVE / CONFORMANCE SUMMARY

| | | | |
|---|---|---|---|
| **Client:** | Shell Oil Products US | **Job No** | JB911 |
| **Site:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Sprin | **Report Date** | 3/13/2012 12:51:07 P |

On 03/07/2012, 1 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 3 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB911 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

## Volatiles by GCMS By Method SW846 8260B

**Matrix:** SO **Batch ID:** VV5387

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB1138-20MS, JB1138-20MSD were used as the QC samples indicated.
- RPD(s) for MSD for 1,1,2,2-Tetrachloroethane, Tetrachloroethene, Trichloroethene are outside control limits for sample JB1138-20MSD. Outside control limits due to matrix interference.

## Volatiles by GC By Method SW846 8015C

**Matrix:** SO **Batch ID:** GUV3808

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB828-2MS, JB828-2MSD were used as the QC samples indicated.

## Extractables by GC By Method SW846 8015C

**Matrix:** SO **Batch ID:** OP55407

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB955-1MS, JB955-1MSD were used as the QC samples indicated.
- Sample(s) OP55407-MSD have surrogates outside control limits. Outside control limits due to matrix interference.
- OP55407-MSD for 5a-Androstane: Outside control limits due to matrix interference.

## Wet Chemistry By Method SM18 2540G

**Matrix:** SO **Batch ID:** GN62993

- The data for SM18 2540G meets quality control requirements.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety.  Data release is authorized by Accutest Laboratories indicated via signature on the report cover

New Jersey

ACCUTEST LABORATORIES



## Sample Results

Report of Analysis

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-RW-27-19-21 | | |
| **Lab Sample ID:** | JB911-1 | **Date Sampled:** | 03/05/12 |
| **Matrix:** | SO - Soil | **Date Received:** | 03/07/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | 83.7 |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | V124959.D | 1 | 03/09/12 | CL | n/a | n/a | VV5387 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 4.8 g |
| Run #2 | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 12 | 8.2 | ug/kg | |
| 71-43-2 | Benzene | ND | 1.2 | 0.17 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 6.2 | 0.24 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 6.2 | 0.65 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 6.2 | 0.28 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.2 | 0.94 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 6.2 | 0.49 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 12 | 5.4 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 6.2 | 0.29 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 6.2 | 0.20 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 6.2 | 0.17 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 6.2 | 0.43 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 6.2 | 0.40 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 6.2 | 0.51 | ug/kg | |
| 67-66-3 | Chloroform | ND | 6.2 | 0.60 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 6.2 | 0.78 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 6.2 | 0.47 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 6.2 | 0.26 | ug/kg | |
| 108-20-3 | Di-Isopropyl ether | ND | 6.2 | 0.16 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 12 | 1.9 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 6.2 | 0.21 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.2 | 0.30 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 6.2 | 0.34 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 6.2 | 0.24 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 6.2 | 0.21 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 6.2 | 0.40 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 6.2 | 0.27 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.2 | 0.23 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 6.2 | 0.76 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 6.2 | 0.40 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 6.2 | 0.53 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 6.2 | 0.33 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-RW-27-19-21 | | |
| **Lab Sample ID:** | JB911-1 | **Date Sampled:** | 03/05/12 |
| **Matrix:** | SO - Soil | **Date Received:** | 03/07/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | 83.7 |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | ND | 6.2 | 0.46 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 6.2 | 0.21 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 6.2 | 0.26 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 6.2 | 0.19 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 6.2 | 0.42 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 1.2 | 0.18 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 6.2 | 0.65 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 6.2 | 0.17 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 6.2 | 0.37 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.2 | 0.22 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 6.2 | 3.3 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 6.2 | 0.71 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 6.2 | 0.29 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 6.2 | 1.3 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 6.2 | 0.43 | ug/kg | |
| 100-42-5 | Styrene | ND | 6.2 | 0.23 | ug/kg | |
| 75-65-0 | Tert Butyl Alcohol | ND | 31 | 7.2 | ug/kg | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 6.2 | 0.19 | ug/kg | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 6.2 | 0.17 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 6.2 | 0.23 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 6.2 | 0.22 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 6.2 | 0.24 | ug/kg | |
| 108-88-3 | Toluene | ND | 1.2 | 0.47 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 6.2 | 0.55 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 6.2 | 0.42 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 6.2 | 0.30 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 6.2 | 0.54 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 6.2 | 0.31 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 6.2 | 0.60 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 6.2 | 1.3 | ug/kg | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 6.2 | 1.4 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 6.2 | 0.16 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 6.2 | 0.57 | ug/kg | |
| | m,p-Xylene | ND | 1.2 | 0.39 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 1.2 | 0.23 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 1.2 | 0.23 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 120% | | 67-131% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-RW-27-19-21 | | |
| **Lab Sample ID:** | JB911-1 | **Date Sampled:** | 03/05/12 |
| **Matrix:** | SO - Soil | **Date Received:** | 03/07/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | 83.7 |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

**VOA Full List + Oxygenates**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 105% | | 66-130% |
| 2037-26-5 | Toluene-D8 | 114% | | 76-125% |
| 460-00-4 | 4-Bromofluorobenzene | 101% | | 53-142% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-RW-27-19-21 | | |
| **Lab Sample ID:** | JB911-1 | **Date Sampled:** | 03/05/12 |
| **Matrix:** | SO - Soil | **Date Received:** | 03/07/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | 83.7 |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV96366.D | 1 | 03/10/12 | XPL | n/a | n/a | GUV3808 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 10.6 g | 10.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 13 | 2.4 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 85% | | 66-119% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-RW-27-19-21 | | |
| **Lab Sample ID:** | JB911-1 | **Date Sampled:** | 03/05/12 |
| **Matrix:** | SO - Soil | **Date Received:** | 03/07/12 |
| **Method:** | SW846 8015C SW846 3545A | **Percent Solids:** | 83.7 |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Y43471.D | 1 | 03/09/12 | MJ | 03/08/12 | OP55407 | G2Y1798 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 10.6 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | 36.2 | 11 | 0.36 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 82% | | 13-142% |
| 16416-32-3 | Tetracosane-d50 | 82% | | 12-141% |
| 438-22-2 | 5a-Androstane | 81% | | 13-142% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey

4

# Misc. Forms

## Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

50

# Shell Oil Products Chain Of Custody Record

URS

**LAB (LOCATION)**
- [x] ACCUTEST ( )
- [ ] CALSCIENCE ( )
- [ ] TESTAMERICA ( )
- [ ] Other ( )

Lab Vendor # 1813640 (Accutest)

**Please Check Appropriate Box:**
- [x] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [ ] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER

Print Bill To Contact Name: Adriane Rogers

PO #

INCIDENT # (ENV SERVICES): 9 7 4 3 6 9 7 7

SAP #: 1 3 7 6 7 5

[ ] CHECK IF NO INCIDENT # APPLIES

DATE: 3/6/12

Page 1 of 1

SAMPLING COMPANY: URS CORPORATION

LOG CODE:

SITE ADDRESS: Street and City: 15541 New Hampshire Avenue, Silver Spring

State: MD

GLOBAL ID NO.:

ADDRESS: 12420 Milestone Center Drive Suite 150, Germantown, MD 20876

EDF DELIVERABLE TO (Name, Company, Office Location): Adriane Rogers

PHONE NO.: 301-820-3241

E-MAIL: adriane.rogers@urs.com

CONSULTANT PROJECT NO.: 137675

PROJECT CONTACT (Hardcopy or PDF Report to): Adriane Rogers

TELEPHONE: 301-820-3000

FAX: 301-820-3409

Bill To Contact E-MAIL: adriane.rogers@urs.com

SAMPLER NAME(S) (Print): Matt Costakis

LAB USE ONLY: TB911

TURNAROUND TIME (CALENDAR DAYS):
- [ ] STANDARD (14 DAY)
- [ ] 5 DAYS
- [x] 3 DAYS
- [ ] 2 DAYS
- [ ] 24 HOURS
- [ ] RESULTS NEEDED ON WEEKEND

- [ ] LA - RWQCB REPORT FORMAT
- [ ] UST AGENCY:

DELIVERABLES:
- [ ] LEVEL 1
- [x] LEVEL 2
- [ ] LEVEL 3
- [ ] LEVEL 4
- [ ] OTHER (SPECIFY)

TEMPERATURE ON RECEIPT C°: Cooler #1 3.0°C; Cooler #2; Cooler #3

SPECIAL INSTRUCTIONS OR NOTES:
- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [ ] RECEIPT VERIFICATION REQUESTED
- [ ] PROVIDE LEDD DISK

REQUESTED ANALYSIS

| LAB USE ONLY | Field Sample Identification | SAMPLING DATE | SAMPLING TIME | MATRIX | PRESERVATIVE HCL | HNO3 | H2SO4 | NONE | OTHER | NO. OF CONT. | Full List VOCs + oxy 5 (8260) | TPH-GRO (8015B) | TPH-DRO (8015B) | Container PID Readings or Laboratory Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 137675-BW-27-19-21 | 3/5 | 1420 | Soil | | | | | | 2 | X | X | X | EX96, 198 |

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

| Relinquished by: (Signature) | Received by: (Signature) | Date | Time |
|---|---|---|---|
| Matt Costakis | Fed | 3/6/12 | 1630 |
| Fed | Matt Costakis | 3/7/12 | 0930 |
| | | | |

05/2/06 Revision

TRK #8740 8086 4026

1A

JB911: Chain of Custody
Page 1 of 2

# Accutest Laboratories Sample Receipt Summary

**Accutest Job Number:** JB911 **Client:** **Project:**

**Date / Time Received:** 3/7/2012 **Delivery Method:** **Airbill #'s:**

**Cooler Temps (Initial/Adjusted):** #1: (3/3); 0

| Cooler Security | Y | or | N |
|---|---|---|---|
| 1. Custody Seals Present: | ☑ | | ☐ |
| 2. Custody Seals Intact: | ☑ | | ☐ |
| 3. COC Present: | ☑ | | ☐ |
| 4. Smpl Dates/Time OK | ☑ | | ☐ |

| Cooler Temperature | Y | or | N |
|---|---|---|---|
| 1. Temp criteria achieved: | ☑ | | ☐ |
| 2. Cooler temp verification: | Bar Therm | | |
| 3. Cooler media: | Ice (Bag) | | |
| 4. No. Coolers: | 1 | | |

| Quality Control Preservation | Y | or | N | N/A |
|---|---|---|---|---|
| 1. Trip Blank present / cooler: | ☐ | | ☐ | ☑ |
| 2. Trip Blank listed on COC: | ☐ | | ☐ | ☑ |
| 3. Samples preserved properly: | ☑ | | ☐ | |
| 4. VOCs headspace free: | ☐ | | ☐ | ☑ |

| Sample Integrity - Documentation | Y | or | N |
|---|---|---|---|
| 1. Sample labels present on bottles: | ☑ | | ☐ |
| 2. Container labeling complete: | ☑ | | ☐ |
| 3. Sample container label / COC agree: | ☑ | | ☐ |

| Sample Integrity - Condition | Y | or | N |
|---|---|---|---|
| 1. Sample recvd within HT: | ☑ | | ☐ |
| 2. All containers accounted for: | ☑ | | ☐ |
| 3. Condition of sample: | Intact | | |

| Sample Integrity - Instructions | Y | or | N | N/A |
|---|---|---|---|---|
| 1. Analysis requested is clear: | ☑ | | ☐ | |
| 2. Bottles received for unspecified tests | ☐ | | ☑ | |
| 3. Sufficient volume recvd for analysis: | ☑ | | ☐ | |
| 4. Compositing instructions clear: | ☐ | | ☐ | ☑ |
| 5. Filtering instructions clear: | ☐ | | ☐ | ☑ |

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

**JB911: Chain of Custody**
**Page 2 of 2**

New Jersey
ACCUTEST LABORATORIES



## GC/MS Volatiles

# QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

# Method Blank Summary



**Job Number:** JB911
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VV5387-MB | V124953.D | 1 | 03/09/12 | CL | n/a | n/a | VV5387 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB911-1

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 6.6 | ug/kg | |
| 71-43-2 | Benzene | ND | 1.0 | 0.13 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.20 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.52 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 5.0 | 0.22 | ug/kg | |
| 75-25-2 | Bromoform | ND | 5.0 | 0.76 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 5.0 | 0.39 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 4.3 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.24 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.16 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.14 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 5.0 | 0.35 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 5.0 | 0.32 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 5.0 | 0.41 | ug/kg | |
| 67-66-3 | Chloroform | ND | 5.0 | 0.48 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 5.0 | 0.62 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.38 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.21 | ug/kg | |
| 108-20-3 | Di-Isopropyl ether | ND | 5.0 | 0.13 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 1.5 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 5.0 | 0.17 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.24 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 5.0 | 0.28 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 5.0 | 0.19 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 5.0 | 0.17 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.32 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.0 | 0.22 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.18 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 5.0 | 0.61 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 5.0 | 0.32 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 5.0 | 0.42 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.0 | 0.27 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.37 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.17 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.21 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.0 | 0.15 | ug/kg | |

# Method Blank Summary



**Job Number:** JB911
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VV5387-MB | V124953.D | 1 | 03/09/12 | CL | n/a | n/a | VV5387 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB911-1

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.0 | 0.34 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.15 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 0.52 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 5.0 | 0.14 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.30 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.18 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 2.6 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.57 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 5.0 | 0.23 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 5.0 | 1.1 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.35 | ug/kg | |
| 100-42-5 | Styrene | ND | 5.0 | 0.19 | ug/kg | |
| 75-65-0 | Tert Butyl Alcohol | ND | 25 | 5.8 | ug/kg | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 5.0 | 0.15 | ug/kg | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 5.0 | 0.14 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.18 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.0 | 0.18 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 5.0 | 0.19 | ug/kg | |
| 108-88-3 | Toluene | ND | 1.0 | 0.38 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.44 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.34 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.0 | 0.24 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.0 | 0.43 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 5.0 | 0.25 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.48 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 1.1 | ug/kg | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.0 | 1.1 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.0 | 0.13 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 5.0 | 0.46 | ug/kg | |
| | m,p-Xylene | ND | 1.0 | 0.31 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.18 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.18 | ug/kg | |

# Method Blank Summary



**Job Number:** JB911
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VV5387-MB | V124953.D | 1 | 03/09/12 | CL | n/a | n/a | VV5387 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB911-1

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 117% | 67-131% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 103% | 66-130% |
| 2037-26-5 | Toluene-D8 | 113% | 76-125% |
| 460-00-4 | 4-Bromofluorobenzene | 101% | 53-142% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---|---|---|---|---|---|
| | Total TIC, Volatile | | 0 | ug/kg | |

# Blank Spike Summary



**Job Number:** JB911
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VV5387-BS | V124954.D | 1 | 03/09/12 | CL | n/a | n/a | VV5387 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB911-1

| CAS No. | Compound | Spike ug/kg | BSP ug/kg | BSP % | Limits |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | 50 | 35.5 | 71 | 48-154 |
| 71-43-2 | Benzene | 50 | 52.9 | 106 | 76-120 |
| 108-86-1 | Bromobenzene | 50 | 45.0 | 90 | 78-121 |
| 74-97-5 | Bromochloromethane | 50 | 53.4 | 107 | 80-130 |
| 75-27-4 | Bromodichloromethane | 50 | 50.8 | 102 | 80-139 |
| 75-25-2 | Bromoform | 50 | 45.6 | 91 | 71-144 |
| 74-83-9 | Bromomethane | 50 | 51.8 | 104 | 56-142 |
| 78-93-3 | 2-Butanone (MEK) | 50 | 42.1 | 84 | 61-141 |
| 104-51-8 | n-Butylbenzene | 50 | 47.0 | 94 | 70-131 |
| 135-98-8 | sec-Butylbenzene | 50 | 47.5 | 95 | 71-126 |
| 98-06-6 | tert-Butylbenzene | 50 | 44.8 | 90 | 73-127 |
| 56-23-5 | Carbon tetrachloride | 50 | 51.6 | 103 | 64-156 |
| 108-90-7 | Chlorobenzene | 50 | 48.7 | 97 | 80-121 |
| 75-00-3 | Chloroethane | 50 | 52.7 | 105 | 57-138 |
| 67-66-3 | Chloroform | 50 | 54.9 | 110 | 77-130 |
| 74-87-3 | Chloromethane | 50 | 54.3 | 109 | 53-131 |
| 95-49-8 | o-Chlorotoluene | 50 | 46.3 | 93 | 75-125 |
| 106-43-4 | p-Chlorotoluene | 50 | 45.5 | 91 | 71-120 |
| 108-20-3 | Di-Isopropyl ether | 50 | 52.7 | 105 | 65-129 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 50 | 44.2 | 88 | 63-141 |
| 124-48-1 | Dibromochloromethane | 50 | 44.5 | 89 | 74-138 |
| 106-93-4 | 1,2-Dibromoethane | 50 | 45.7 | 91 | 80-127 |
| 95-50-1 | 1,2-Dichlorobenzene | 50 | 45.0 | 90 | 77-121 |
| 541-73-1 | 1,3-Dichlorobenzene | 50 | 46.0 | 92 | 77-122 |
| 106-46-7 | 1,4-Dichlorobenzene | 50 | 44.0 | 88 | 74-117 |
| 75-71-8 | Dichlorodifluoromethane | 50 | 51.4 | 103 | 36-149 |
| 75-34-3 | 1,1-Dichloroethane | 50 | 58.4 | 117 | 75-129 |
| 107-06-2 | 1,2-Dichloroethane | 50 | 51.4 | 103 | 70-145 |
| 75-35-4 | 1,1-Dichloroethene | 50 | 49.3 | 99 | 70-128 |
| 156-59-2 | cis-1,2-Dichloroethene | 50 | 51.2 | 102 | 76-135 |
| 156-60-5 | trans-1,2-Dichloroethene | 50 | 51.1 | 102 | 68-124 |
| 78-87-5 | 1,2-Dichloropropane | 50 | 56.1 | 112 | 79-122 |
| 142-28-9 | 1,3-Dichloropropane | 50 | 47.0 | 94 | 79-124 |
| 594-20-7 | 2,2-Dichloropropane | 50 | 51.6 | 103 | 54-148 |
| 563-58-6 | 1,1-Dichloropropene | 50 | 53.9 | 108 | 74-131 |
| 10061-01-5 | cis-1,3-Dichloropropene | 50 | 51.0 | 102 | 80-127 |

# Blank Spike Summary

**Job Number:** JB911
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VV5387-BS | V124954.D | 1 | 03/09/12 | CL | n/a | n/a | VV5387 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB911-1

| CAS No. | Compound | Spike ug/kg | BSP ug/kg | BSP % | Limits |
|---|---|---|---|---|---|
| 10061-02-6 | trans-1,3-Dichloropropene | 50 | 49.4 | 99 | 79-133 |
| 100-41-4 | Ethylbenzene | 50 | 47.6 | 95 | 75-125 |
| 87-68-3 | Hexachlorobutadiene | 50 | 45.9 | 92 | 63-139 |
| 98-82-8 | Isopropylbenzene | 50 | 47.8 | 96 | 67-126 |
| 99-87-6 | p-Isopropyltoluene | 50 | 48.4 | 97 | 73-131 |
| 1634-04-4 | Methyl Tert Butyl Ether | 100 | 94.8 | 95 | 72-126 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | 50 | 51.7 | 103 | 69-135 |
| 74-95-3 | Methylene bromide | 50 | 53.0 | 106 | 82-131 |
| 75-09-2 | Methylene chloride | 50 | 50.1 | 100 | 71-124 |
| 91-20-3 | Naphthalene | 50 | 41.2 | 82 | 59-134 |
| 103-65-1 | n-Propylbenzene | 50 | 47.7 | 95 | 70-123 |
| 100-42-5 | Styrene | 50 | 46.0 | 92 | 77-128 |
| 75-65-0 | Tert Butyl Alcohol | 250 | 234 | 94 | 65-137 |
| 994-05-8 | tert-Amyl Methyl Ether | 50 | 48.2 | 96 | 69-125 |
| 637-92-3 | tert-Butyl Ethyl Ether | 50 | 52.2 | 104 | 69-128 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 50 | 48.9 | 98 | 79-134 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 50 | 46.2 | 92 | 71-122 |
| 127-18-4 | Tetrachloroethene | 50 | 47.8 | 96 | 70-137 |
| 108-88-3 | Toluene | 50 | 50.8 | 102 | 77-124 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 50 | 44.4 | 89 | 67-134 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 50 | 45.7 | 91 | 70-132 |
| 71-55-6 | 1,1,1-Trichloroethane | 50 | 51.9 | 104 | 70-144 |
| 79-00-5 | 1,1,2-Trichloroethane | 50 | 50.3 | 101 | 81-127 |
| 79-01-6 | Trichloroethene | 50 | 51.7 | 103 | 80-129 |
| 75-69-4 | Trichlorofluoromethane | 50 | 51.7 | 103 | 59-149 |
| 96-18-4 | 1,2,3-Trichloropropane | 50 | 40.3 | 81 | 74-133 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 50 | 46.6 | 93 | 73-122 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 50 | 48.6 | 97 | 71-121 |
| 75-01-4 | Vinyl chloride | 50 | 56.0 | 112 | 59-134 |
| | m,p-Xylene | 100 | 96.1 | 96 | 77-124 |
| 95-47-6 | o-Xylene | 50 | 48.3 | 97 | 81-126 |
| 1330-20-7 | Xylene (total) | 150 | 144 | 96 | 78-124 |

# Blank Spike Summary



**Job Number:** JB911
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VV5387-BS | V124954.D | 1 | 03/09/12 | CL | n/a | n/a | VV5387 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB911-1

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 118% | 67-131% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 103% | 66-130% |
| 2037-26-5 | Toluene-D8 | 115% | 76-125% |
| 460-00-4 | 4-Bromofluorobenzene | 103% | 53-142% |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB911
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB1138-20MS | V124955.D | 1 | 03/09/12 | CL | n/a | n/a | VV5387 |
| JB1138-20MSD | V124956.D | 1 | 03/09/12 | CL | n/a | n/a | VV5387 |
| JB1138-20 | V124958.D | 1 | 03/09/12 | CL | n/a | n/a | VV5387 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB911-1

| CAS No. | Compound | JB1138-20 ug/kg | Q | Spike ug/kg | MS ug/kg | MS % | MSD ug/kg | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | | 102 | 167 | 164 | 120 | 109 | 33 | 12-189/33 |
| 71-43-2 | Benzene | ND | | 102 | 86.7 | 85 | 84.2 | 77 | 3 | 37-132/21 |
| 108-86-1 | Bromobenzene | ND | | 102 | 77.7 | 76 | 80.7 | 74 | 4 | 17-144/25 |
| 74-97-5 | Bromochloromethane | ND | | 102 | 96.4 | 95 | 97.9 | 89 | 2 | 43-136/20 |
| 75-27-4 | Bromodichloromethane | ND | | 102 | 85.6 | 84 | 87.2 | 79 | 2 | 34-148/21 |
| 75-25-2 | Bromoform | ND | | 102 | 86.3 | 85 | 95.3 | 87 | 10 | 23-153/23 |
| 74-83-9 | Bromomethane | ND | | 102 | 113 | 111 | 113 | 103 | 0 | 10-150/27 |
| 78-93-3 | 2-Butanone (MEK) | ND | | 102 | 135 | 132 | 123 | 112 | 9 | 21-179/29 |
| 104-51-8 | n-Butylbenzene | ND | | 102 | 71.9 | 71 | 75.8 | 69 | 5 | 10-156/33 |
| 135-98-8 | sec-Butylbenzene | ND | | 102 | 77.0 | 76 | 79.1 | 72 | 3 | 10-152/30 |
| 98-06-6 | tert-Butylbenzene | ND | | 102 | 74.3 | 73 | 75.1 | 68 | 1 | 10-151/28 |
| 56-23-5 | Carbon tetrachloride | ND | | 102 | 81.4 | 80 | 77.5 | 71 | 5 | 25-156/24 |
| 108-90-7 | Chlorobenzene | ND | | 102 | 78.6 | 77 | 79.5 | 72 | 1 | 25-140/24 |
| 75-00-3 | Chloroethane | ND | | 102 | 125 | 123 | 118 | 108 | 6 | 15-143/26 |
| 67-66-3 | Chloroform | ND | | 102 | 94.9 | 93 | 91.5 | 83 | 4 | 42-134/21 |
| 74-87-3 | Chloromethane | ND | | 102 | 133 | 130 | 124 | 113 | 7 | 33-134/25 |
| 95-49-8 | o-Chlorotoluene | ND | | 102 | 76.8 | 75 | 78.0 | 71 | 2 | 13-146/29 |
| 106-43-4 | p-Chlorotoluene | ND | | 102 | 75.7 | 74 | 77.6 | 71 | 2 | 10-143/27 |
| 108-20-3 | Di-Isopropyl ether | ND | | 102 | 102 | 100 | 103 | 94 | 1 | 39-133/20 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | | 102 | 100 | 98 | 106 | 97 | 6 | 15-154/28 |
| 124-48-1 | Dibromochloromethane | ND | | 102 | 80.1 | 79 | 85.2 | 78 | 6 | 28-150/22 |
| 106-93-4 | 1,2-Dibromoethane | ND | | 102 | 88.8 | 87 | 90.0 | 82 | 1 | 34-141/21 |
| 95-50-1 | 1,2-Dichlorobenzene | ND | | 102 | 75.7 | 74 | 81.4 | 74 | 7 | 10-147/28 |
| 541-73-1 | 1,3-Dichlorobenzene | ND | | 102 | 73.5 | 72 | 78.3 | 71 | 6 | 10-148/28 |
| 106-46-7 | 1,4-Dichlorobenzene | ND | | 102 | 72.3 | 71 | 77.8 | 71 | 7 | 10-144/28 |
| 75-71-8 | Dichlorodifluoromethane | ND | | 102 | 131 | 129 | 115 | 105 | 13 | 18-162/26 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 102 | 98.1 | 96 | 95.5 | 87 | 3 | 44-131/21 |
| 107-06-2 | 1,2-Dichloroethane | ND | | 102 | 94.0 | 92 | 94.3 | 86 | 0 | 39-144/20 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 102 | 85.6 | 84 | 80.0 | 73 | 7 | 37-135/23 |
| 156-59-2 | cis-1,2-Dichloroethene | ND | | 102 | 85.9 | 84 | 85.9 | 78 | 0 | 38-134/21 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 102 | 86.0 | 84 | 80.1 | 73 | 7 | 35-133/23 |
| 78-87-5 | 1,2-Dichloropropane | ND | | 102 | 94.3 | 93 | 92.9 | 85 | 1 | 41-132/20 |
| 142-28-9 | 1,3-Dichloropropane | ND | | 102 | 89.4 | 88 | 90.7 | 83 | 1 | 38-135/20 |
| 594-20-7 | 2,2-Dichloropropane | ND | | 102 | 86.7 | 85 | 83.0 | 76 | 4 | 29-141/23 |
| 563-58-6 | 1,1-Dichloropropene | ND | | 102 | 88.1 | 86 | 82.2 | 75 | 7 | 30-141/24 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 102 | 85.4 | 84 | 88.5 | 81 | 4 | 31-141/23 |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB911
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB1138-20MS | V124955.D | 1 | 03/09/12 | CL | n/a | n/a | VV5387 |
| JB1138-20MSD | V124956.D | 1 | 03/09/12 | CL | n/a | n/a | VV5387 |
| JB1138-20 | V124958.D | 1 | 03/09/12 | CL | n/a | n/a | VV5387 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB911-1

| CAS No. | Compound | JB1138-20 ug/kg | Q | Spike ug/kg | MS ug/kg | MS % | MSD ug/kg | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 102 | 85.2 | 84 | 90.8 | 83 | 6 | 29-146/24 |
| 100-41-4 | Ethylbenzene | ND | | 102 | 76.2 | 75 | 74.3 | 68 | 3 | 20-144/25 |
| 87-68-3 | Hexachlorobutadiene | ND | | 102 | 69.2 | 68 | 76.6 | 70 | 10 | 10-176/36 |
| 98-82-8 | Isopropylbenzene | ND | | 102 | 79.5 | 78 | 78.0 | 71 | 2 | 14-146/27 |
| 99-87-6 | p-Isopropyltoluene | ND | | 102 | 74.9 | 73 | 77.1 | 70 | 3 | 10-154/30 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 102 | 90.5 | 89 | 93.2 | 85 | 3 | 43-131/20 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | | 102 | 113 | 111 | 123 | 112 | 8 | 36-145/26 |
| 74-95-3 | Methylene bromide | ND | | 102 | 95.0 | 93 | 96.6 | 88 | 2 | 42-138/21 |
| 75-09-2 | Methylene chloride | ND | | 102 | 88.5 | 87 | 85.8 | 78 | 3 | 41-128/20 |
| 91-20-3 | Naphthalene | ND | | 102 | 78.6 | 77 | 81.2 | 74 | 3 | 10-157/34 |
| 103-65-1 | n-Propylbenzene | ND | | 102 | 77.5 | 76 | 77.4 | 71 | 0 | 10-147/29 |
| 100-42-5 | Styrene | ND | | 102 | 74.2 | 73 | 75.1 | 68 | 1 | 13-154/25 |
| 75-65-0 | Tert Butyl Alcohol | ND | | 510 | 516 | 101 | 421 | 77 | 20 | 41-146/26 |
| 994-05-8 | tert-Amyl Methyl Ether | ND | | 102 | 95.0 | 93 | 95.9 | 87 | 1 | 41-131/20 |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | | 102 | 105 | 103 | 108 | 98 | 3 | 41-134/20 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | | 102 | 80.8 | 79 | 84.6 | 77 | 5 | 28-148/22 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 102 | 74.0 | 73 | 109 | 99 | 38* [a] | 30-134/26 |
| 127-18-4 | Tetrachloroethene | ND | | 102 | 129 | 127 | 76.2 | 69 | 51* [a] | 18-163/26 |
| 108-88-3 | Toluene | ND | | 102 | 80.3 | 79 | 79.9 | 73 | 0 | 29-138/23 |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | | 102 | 71.5 | 70 | 73.4 | 67 | 3 | 10-158/36 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | | 102 | 69.8 | 68 | 73.2 | 67 | 5 | 10-163/35 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 102 | 87.0 | 85 | 84.9 | 77 | 2 | 35-145/23 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | | 102 | 91.9 | 90 | 99.3 | 90 | 8 | 37-140/22 |
| 79-01-6 | Trichloroethene | ND | | 102 | 108 | 106 | 80.4 | 73 | 29* [a] | 28-151/23 |
| 75-69-4 | Trichlorofluoromethane | ND | | 102 | 126 | 124 | 115 | 105 | 9 | 29-154/25 |
| 96-18-4 | 1,2,3-Trichloropropane | ND | | 102 | 86.6 | 85 | 97.7 | 89 | 12 | 35-141/24 |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | | 102 | 75.3 | 74 | 77.2 | 70 | 2 | 10-151/31 |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | | 102 | 80.2 | 79 | 80.8 | 74 | 1 | 10-146/28 |
| 75-01-4 | Vinyl chloride | ND | | 102 | 137 | 134 | 126 | 115 | 8 | 33-143/24 |
| | m,p-Xylene | ND | | 204 | 153 | 75 | 149 | 68 | 3 | 17-145/25 |
| 95-47-6 | o-Xylene | ND | | 102 | 78.1 | 77 | 77.3 | 70 | 1 | 20-146/25 |
| 1330-20-7 | Xylene (total) | ND | | 306 | 231 | 76 | 227 | 69 | 2 | 18-145/25 |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB911
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB1138-20MS | V124955.D | 1 | 03/09/12 | CL | n/a | n/a | VV5387 |
| JB1138-20MSD | V124956.D | 1 | 03/09/12 | CL | n/a | n/a | VV5387 |
| JB1138-20 | V124958.D | 1 | 03/09/12 | CL | n/a | n/a | VV5387 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB911-1

| CAS No. | Surrogate Recoveries | MS | MSD | JB1138-20 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 116% | 127% | 120% | 67-131% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 111% | 116% | 111% | 66-130% |
| 2037-26-5 | Toluene-D8 | 113% | 114% | 114% | 76-125% |
| 460-00-4 | 4-Bromofluorobenzene | 104% | 104% | 101% | 53-142% |

(a) Outside control limits due to matrix interference.

# Instrument Performance Check (BFB)



**Job Number:** JB911
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Sample:** VV5363-BFB
**Lab File ID:** V124468.D
**Instrument ID:** GCMSV
**Injection Date:** 02/22/12
**Injection Time:** 08:45

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 6994 | 16.5 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 18973 | 44.9 | | Pass |
| 95 | Base peak, 100% relative abundance | 42266 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 2785 | 6.59 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 39226 | 92.8 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 3226 | 7.63 | (8.22) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 37904 | 89.7 | (96.6) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 2590 | 6.13 | (6.83) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| VV5363-IC5363 | V124469.D | 02/22/12 | 09:25 | 00:40 | Initial cal 5 |
| VV5363-IC5363 | V124470.D | 02/22/12 | 10:05 | 01:20 | Initial cal 2 |
| VV5363-IC5363 | V124471.D | 02/22/12 | 10:36 | 01:51 | Initial cal 1 |
| VV5363-IC5363 | V124472.D | 02/22/12 | 11:07 | 02:22 | Initial cal 0.5 |
| VV5363-IC5363 | V124473.D | 02/22/12 | 11:40 | 02:55 | Initial cal 10 |
| VV5363-IC5363 | V124474.D | 02/22/12 | 12:11 | 03:26 | Initial cal 20 |
| VV5363-ICC5363 | V124475.D | 02/22/12 | 12:41 | 03:56 | Initial cal 50 |
| VV5363-IC5363 | V124479.D | 02/22/12 | 15:08 | 06:23 | Initial cal 100 |
| VV5363-IC5363 | V124480.D | 02/22/12 | 15:39 | 06:54 | Initial cal 200 |
| VV5363-ICV5363 | V124482A.D | 02/22/12 | 17:57 | 09:12 | Initial cal verification 50 |

# Instrument Performance Check (BFB)



**Job Number:** JB911
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Sample:** VV5387-BFB
**Lab File ID:** V124950.D
**Instrument ID:** GCMSV
**Injection Date:** 03/09/12
**Injection Time:** 10:30

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 9712 | 15.6 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 28117 | 45.2 | | Pass |
| 95 | Base peak, 100% relative abundance | 62208 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 4166 | 6.70 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 56064 | 90.1 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 4212 | 6.77 | (7.51) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 54954 | 88.3 | (98.0) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 3575 | 5.75 | (6.51) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| VV5387-CC5363 | V124951.D | 03/09/12 | 11:01 | 00:31 | Continuing cal 20 |
| VV5387-MB | V124953.D | 03/09/12 | 13:16 | 02:46 | Method Blank |
| VV5387-BS | V124954.D | 03/09/12 | 13:47 | 03:17 | Blank Spike |
| JB1138-20MS | V124955.D | 03/09/12 | 14:20 | 03:50 | Matrix Spike |
| JB1138-20MSD | V124956.D | 03/09/12 | 14:51 | 04:21 | Matrix Spike Duplicate |
| JB1138-20 | V124958.D | 03/09/12 | 16:24 | 05:54 | (used for QC only; not part of job JB911) |
| JB911-1 | V124959.D | 03/09/12 | 16:55 | 06:25 | 137675-RW-27-19-21 |
| ZZZZZZ | V124960.D | 03/09/12 | 17:26 | 06:56 | (unrelated sample) |
| ZZZZZZ | V124961.D | 03/09/12 | 17:56 | 07:26 | (unrelated sample) |

# Volatile Surrogate Recovery Summary



**Job Number:** JB911
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Method:** SW846 8260B **Matrix:** SO

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 | S2 | S3 | S4 |
|---|---|---|---|---|---|
| JB911-1 | V124959.D | 120.0 | 105.0 | 114.0 | 101.0 |
| JB1138-20MS | V124955.D | 116.0 | 111.0 | 113.0 | 104.0 |
| JB1138-20MSD | V124956.D | 127.0 | 116.0 | 114.0 | 104.0 |
| VV5387-BS | V124954.D | 118.0 | 103.0 | 115.0 | 103.0 |
| VV5387-MB | V124953.D | 117.0 | 103.0 | 113.0 | 101.0 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = Dibromofluoromethane | 67-131% |
| **S2** = 1,2-Dichloroethane-D4 | 66-130% |
| **S3** = Toluene-D8 | 76-125% |
| **S4** = 4-Bromofluorobenzene | 53-142% |

New Jersey

ACCUTEST LABORATORIES



# GC Volatiles

## QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

# Method Blank Summary



**Job Number:** JB911
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| GUV3808-MB3 | UV96365.D | 1 | 03/10/12 | XPL | n/a | n/a | GUV3808 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB911-1

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 10 | 1.8 | mg/kg | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 87% | 66-119% |

# Method Blank Summary



**Job Number:** JB911
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| GUV3808-MB1 | UV96345.D | 1 | 03/09/12 | XPL | n/a | n/a | GUV3808 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

GUV3808-BS, JB828-2MS, JB828-2MSD

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 10 | 1.8 | mg/kg | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 86% | 66-119% |

# Blank Spike Summary



**Job Number:** JB911
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| GUV3808-BS | UV96346.D | 1 | 03/09/12 | XPL | n/a | n/a | GUV3808 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB911-1

| CAS No. | Compound | Spike mg/kg | BSP mg/kg | BSP % | Limits |
|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 400 | 420 | 105 | 70-120 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 105% | 66-119% |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB911
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB828-2MS | UV96353.D | 1 | 03/09/12 | XPL | n/a | n/a | GUV3808 |
| JB828-2MSD | UV96354.D | 1 | 03/09/12 | XPL | n/a | n/a | GUV3808 |
| JB828-2 | UV96348.D | 1 | 03/09/12 | XPL | n/a | n/a | GUV3808 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB911-1

| CAS No. | Compound | JB828-2 mg/kg | Q | Spike mg/kg | MS mg/kg | MS % | MSD mg/kg | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | | 563 | 575 | 102 | 566 | 101 | 2 | 61-128/14 |

| CAS No. | Surrogate Recoveries | MS | MSD | JB828-2 | Limits |
|---|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 99% | 98% | 85% | 66-119% |

# Volatile Surrogate Recovery Summary



**Job Number:** JB911
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Method:** SW846 8015C **Matrix:** SO

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 [a] |
|---|---|---|
| JB911-1 | UV96366.D | 85.0 |
| GUV3808-BS | UV96346.D | 105.0 |
| GUV3808-MB3 | UV96365.D | 87.0 |
| JB828-2MS | UV96353.D | 99.0 |
| JB828-2MSD | UV96354.D | 98.0 |
| GUV3808-MB1 | UV96345.D | 86.0 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = aaa-Trifluorotoluene | 66-119% |

(a) Recovery from GC signal #1

New Jersey
ACCUTEST LABORATORIES



## GC Semi-volatiles

## QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

# Method Blank Summary



**Job Number:** JB911
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP55407-MB1 | 2Y43465.D | 1 | 03/09/12 | MJ | 03/08/12 | OP55407 | G2Y1798 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB911-1

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 10 | 0.32 | mg/kg | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 84-15-1 | o-Terphenyl | 95% | 13-142% |
| 16416-32-3 | Tetracosane-d50 | 86% | 12-141% |
| 438-22-2 | 5a-Androstane | 97% | 13-142% |

# Blank Spike Summary



**Job Number:** JB911
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP55407-BS1 | 2Y43466.D | 1 | 03/09/12 | MJ | 03/08/12 | OP55407 | G2Y1798 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB911-1

| CAS No. | Compound | Spike mg/kg | BSP mg/kg | BSP % | Limits |
|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | 100 | 96.3 | 96 | 46-125 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 84-15-1 | o-Terphenyl | 95% | 13-142% |
| 16416-32-3 | Tetracosane-d50 | 88% | 12-141% |
| 438-22-2 | 5a-Androstane | 97% | 13-142% |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB911
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP55407-MS | 2Y43469.D | 1 | 03/09/12 | MJ | 03/08/12 | OP55407 | G2Y1798 |
| OP55407-MSD | 2Y43470.D | 1 | 03/09/12 | MJ | 03/08/12 | OP55407 | G2Y1798 |
| JB955-1 | 2Y43473.D | 1 | 03/09/12 | MJ | 03/08/12 | OP55407 | G2Y1798 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB911-1

| CAS No. | Compound | JB955-1 mg/kg | Q | Spike mg/kg | MS mg/kg | MS % | MSD mg/kg | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | 22400 | | 1060 | 23300 | 85 | 23000 | 64 | 1 | 10-160/50 |

| CAS No. | Surrogate Recoveries | MS | MSD | JB955-1 | Limits |
|---|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 102% | 120% | 136% | 13-142% |
| 16416-32-3 | Tetracosane-d50 | 90% | 93% | 81% | 12-141% |
| 438-22-2 | 5a-Androstane | 128% | 149%* [a] | 189%* [a] | 13-142% |

(a) Outside control limits due to matrix interference.

# Semivolatile Surrogate Recovery Summary



**Job Number:** JB911
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Method:** SW846 8015C **Matrix:** SO

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 [a] | S2 [a] | S3 [a] |
|---|---|---|---|---|
| JB911-1 | 2Y43471.D | 82.0 | 82.0 | 81.0 |
| OP55407-BS1 | 2Y43466.D | 95.0 | 88.0 | 97.0 |
| OP55407-MB1 | 2Y43465.D | 95.0 | 86.0 | 97.0 |
| OP55407-MS | 2Y43469.D | 102.0 | 90.0 | 128.0 |
| OP55407-MSD | 2Y43470.D | 120.0 | 93.0 | 149.0* [b] |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = o-Terphenyl | 13-142% |
| **S2** = Tetracosane-d50 | 12-141% |
| **S3** = 5a-Androstane | 13-142% |

(a) Recovery from GC signal #1
(b) Outside control limits due to matrix interference.

# Appendix F

# Offsite System Laboratory Analytical Reports

New Jersey
ACCUTEST LABORATORIES

04/17/12

Technical Report for

Shell Oil Products US

URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

INC#97436977

Accutest Job Number: JB3852

Sampling Date: 04/10/12

Report to:

URS Corporation
12420 Milestone Center Drive Suite 150
Germantown, MD 20876
jenna_anthony@urscorp.com; adriane_rogers@urscorp.com

ATTN: Jenna Anthony

Total number of pages in report: **46**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul Ioannidis
Lab Director

Client Service contact: Marty Vitanza 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.



Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

# Table of Contents

-1-

**Section 1: Sample Summary** ..... **3**
**Section 2: Case Narrative/Conformance Summary** ..... **4**
**Section 3: Sample Results** ..... **5**
**3.1:** JB3852-1: 137675 - OFFSITE - EFFLUENT ..... 6
**3.2:** JB3852-2: 137675 - OFFSITE - MID3 ..... 9
**3.3:** JB3852-3: 137675 - OFFSITE - MID2 ..... 12
**3.4:** JB3852-4: 137675 - OFFSITE - MID1 ..... 15
**3.5:** JB3852-5: 137675 - OFFSITE - INFLUENT ..... 18
**Section 4: Misc. Forms** ..... **21**
**4.1:** Chain of Custody ..... 22
**Section 5: GC/MS Volatiles - QC Data Summaries** ..... **24**
**5.1:** Method Blank Summary ..... 25
**5.2:** Blank Spike Summary ..... 27
**5.3:** Matrix Spike Summary ..... 29
**5.4:** Matrix Spike/Matrix Spike Duplicate Summary ..... 30
**5.5:** Duplicate Summary ..... 31
**5.6:** Instrument Performance Checks (BFB) ..... 32
**5.7:** Surrogate Recovery Summaries ..... 36
**Section 6: GC Volatiles - QC Data Summaries** ..... **37**
**6.1:** Method Blank Summary ..... 38
**6.2:** Blank Spike Summary ..... 39
**6.3:** Matrix Spike/Matrix Spike Duplicate Summary ..... 40
**6.4:** Surrogate Recovery Summaries ..... 41
**Section 7: GC Semi-volatiles - QC Data Summaries** ..... **42**
**7.1:** Method Blank Summary ..... 43
**7.2:** Blank Spike Summary ..... 44
**7.3:** Matrix Spike/Matrix Spike Duplicate Summary ..... 45
**7.4:** Surrogate Recovery Summaries ..... 46

Accutest Laboratories

# Sample Summary

Shell Oil Products US

**Job No:** JB3852

URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD
Project No: INC#97436977

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| JB3852-1 | 04/10/12 | 11:40 | RS | 04/11/12 | AQ | Effluent | 137675 - OFFSITE - EFFLUENT |
| JB3852-2 | 04/10/12 | 11:45 | RS | 04/11/12 | AQ | Ground Water | 137675 - OFFSITE - MID3 |
| JB3852-3 | 04/10/12 | 11:50 | RS | 04/11/12 | AQ | Ground Water | 137675 - OFFSITE - MID2 |
| JB3852-4 | 04/10/12 | 11:55 | RS | 04/11/12 | AQ | Ground Water | 137675 - OFFSITE - MID1 |
| JB3852-5 | 04/10/12 | 12:00 | RS | 04/11/12 | AQ | Influent | 137675 - OFFSITE - INFLUENT |

# CASE NARRATIVE / CONFORMANCE SUMMARY

| | | | |
|---|---|---|---|
| **Client:** | Shell Oil Products US | **Job No** | JB3852 |
| **Site:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Sprin | **Report Date** | 4/17/2012 4:43:48 PM |

On 04/11/2012, 5 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 2 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB3852 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

## Volatiles by GCMS By Method SW846 8260B

**Matrix:** AQ **Batch ID:** V2B4270

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB3906-3MS, JB3906-3MSD were used as the QC samples indicated.

**Matrix:** AQ **Batch ID:** V2C4316

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB3852-2MS, JB3852-3DUP were used as the QC samples indicated.

## Volatiles by GC By Method SW846 8015C

**Matrix:** AQ **Batch ID:** GUV3842

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB3852-2MS, JB3852-2MSD were used as the QC samples indicated.

## Extractables by GC By Method SW846 8015C

**Matrix:** AQ **Batch ID:** OP56232

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB3863-1MS, JB3863-1MSD were used as the QC samples indicated.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

New Jersey

ACCUTEST LABORATORIES



## Sample Results

Report of Analysis

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675 - OFFSITE - EFFLUENT | | |
| **Lab Sample ID:** | JB3852-1 | **Date Sampled:** | 04/10/12 |
| **Matrix:** | AQ - Effluent | **Date Received:** | 04/11/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2C94519.D | 1 | 04/12/12 | DR | n/a | n/a | V2C4316 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**Purgeable Aromatics, MTBE**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.18 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 101% | | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 97% | | 70-127% |
| 2037-26-5 | Toluene-D8 | 99% | | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 101% | | 76-118% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675 - OFFSITE - EFFLUENT | | |
| **Lab Sample ID:** | JB3852-1 | **Date Sampled:** | 04/10/12 |
| **Matrix:** | AQ - Effluent | **Date Received:** | 04/11/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV97415.D | 1 | 04/13/12 | XPL | n/a | n/a | GUV3842 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 78% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675 - OFFSITE - EFFLUENT | | |
| **Lab Sample ID:** | JB3852-1 | **Date Sampled:** | 04/10/12 |
| **Matrix:** | AQ - Effluent | **Date Received:** | 04/11/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 5Y2296.D | 1 | 04/13/12 | CS | 04/12/12 | OP56232 | G5Y72 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 905 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.11 | 0.0039 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 78% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 70% | | 32-138% |
| 438-22-2 | 5a-Androstane | 88% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675 - OFFSITE - MID3 | | |
| **Lab Sample ID:** | JB3852-2 | **Date Sampled:** | 04/10/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 04/11/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2C94516.D | 1 | 04/11/12 | DR | n/a | n/a | V2C4316 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**Purgeable Aromatics, MTBE**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.18 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 101% | | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 97% | | 70-127% |
| 2037-26-5 | Toluene-D8 | 101% | | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 98% | | 76-118% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675 - OFFSITE - MID3 | | |
| **Lab Sample ID:** | JB3852-2 | **Date Sampled:** | 04/10/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 04/11/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV97412.D | 1 | 04/13/12 | XPL | n/a | n/a | GUV3842 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 80% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675 - OFFSITE - MID3 | | |
| **Lab Sample ID:** | JB3852-2 | **Date Sampled:** | 04/10/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 04/11/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 5Y2297.D | 1 | 04/13/12 | CS | 04/12/12 | OP56232 | G5Y72 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 890 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.11 | 0.0039 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 90% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 79% | | 32-138% |
| 438-22-2 | 5a-Androstane | 103% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675 - OFFSITE - MID2 | | |
| **Lab Sample ID:** | JB3852-3 | **Date Sampled:** | 04/10/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 04/11/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2C94518.D | 1 | 04/12/12 | DR | n/a | n/a | V2C4316 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**Purgeable Aromatics, MTBE**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.18 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 100% | | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 97% | | 70-127% |
| 2037-26-5 | Toluene-D8 | 101% | | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | | 76-118% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675 - OFFSITE - MID2 | | |
| **Lab Sample ID:** | JB3852-3 | **Date Sampled:** | 04/10/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 04/11/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV97413.D | 1 | 04/13/12 | XPL | n/a | n/a | GUV3842 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 79% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675 - OFFSITE - MID2 | | |
| **Lab Sample ID:** | JB3852-3 | **Date Sampled:** | 04/10/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 04/11/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 5Y2298.D | 1 | 04/13/12 | CS | 04/12/12 | OP56232 | G5Y72 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 905 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.11 | 0.0039 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 90% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 78% | | 32-138% |
| 438-22-2 | 5a-Androstane | 101% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675 - OFFSITE - MID1 | | |
| **Lab Sample ID:** | JB3852-4 | **Date Sampled:** | 04/10/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 04/11/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2C94520.D | 1 | 04/12/12 | DR | n/a | n/a | V2C4316 |
| Run #2 | 2C94521.D | 10 | 04/12/12 | DR | n/a | n/a | V2C4316 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**Purgeable Aromatics, MTBE**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 379 [a] | 10 | 1.8 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 100% | 100% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98% | 98% | 70-127% |
| 2037-26-5 | Toluene-D8 | 101% | 101% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | 99% | 76-118% |

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675 - OFFSITE - MID1 | | |
| **Lab Sample ID:** | JB3852-4 | **Date Sampled:** | 04/10/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 04/11/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV97414.D | 1 | 04/13/12 | XPL | n/a | n/a | GUV3842 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 0.352 | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 80% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675 - OFFSITE - MID1 | | |
| **Lab Sample ID:** | JB3852-4 | **Date Sampled:** | 04/10/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 04/11/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 5Y2299.D | 1 | 04/13/12 | CS | 04/12/12 | OP56232 | G5Y72 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 900 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.11 | 0.0039 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 92% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 77% | | 32-138% |
| 438-22-2 | 5a-Androstane | 99% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675 - OFFSITE - INFLUENT | | |
| **Lab Sample ID:** | JB3852-5 | **Date Sampled:** | 04/10/12 |
| **Matrix:** | AQ - Influent | **Date Received:** | 04/11/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2B94700.D | 5 | 04/12/12 | DR | n/a | n/a | V2B4270 |
| Run #2 | 2C94522.D | 20 | 04/12/12 | DR | n/a | n/a | V2C4316 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**Purgeable Aromatics, MTBE**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | 1.6 | 5.0 | 1.1 | ug/l | J |
| 108-88-3 | Toluene | ND | 5.0 | 0.73 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 5.0 | 1.1 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 5.0 | 0.87 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 1400 [a] | 20 | 3.7 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 102% | 102% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 103% | 98% | 70-127% |
| 2037-26-5 | Toluene-D8 | 112% | 101% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 102% | 99% | 76-118% |

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675 - OFFSITE - INFLUENT | | |
| **Lab Sample ID:** | JB3852-5 | **Date Sampled:** | 04/10/12 |
| **Matrix:** | AQ - Influent | **Date Received:** | 04/11/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV97416.D | 1 | 04/13/12 | XPL | n/a | n/a | GUV3842 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 1.09 | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 78% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675 - OFFSITE - INFLUENT | | |
| **Lab Sample ID:** | JB3852-5 | **Date Sampled:** | 04/10/12 |
| **Matrix:** | AQ - Influent | **Date Received:** | 04/11/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 5Y2300.D | 1 | 04/13/12 | CS | 04/12/12 | OP56232 | G5Y72 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 895 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.11 | 0.0039 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 87% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 75% | | 32-138% |
| 438-22-2 | 5a-Androstane | 99% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey

4

## Misc. Forms

# Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

# Shell Oil Products Chain Of Custody Record

URS

LAB (LOCATION)
- [x] ACCUTEST ( )
- [ ] CALSCIENCE ( )
- [ ] TESTAMERICA ( )
- [ ] Other ( )

Lab Vendor # 1813640 (Accutest)

Please Check Appropriate Box:
- [x] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [ ] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER

Print Bill To Contact Name: Adriane Rogers

PO #

INCIDENT # (ENV SERVICES): 9 7 4 3 6 9 7 7

SAP #: 1 3 7 6 7 5

[ ] CHECK IF NO INCIDENT # APPLIES

DATE: 4-10-12

Page 1 of 1

SAMPLING COMPANY: URS CORPORATION

LOG CODE:

ADDRESS: 12420 Milestone Center Drive Suite 150, Germantown, MD 20876

PROJECT CONTACT (Hardcopy or PDF Report to): Adriane Rogers

TELEPHONE: 301-820-3000

FAX: 301-820-3409

Bill To Contact E-MAIL: adriane.rogers@urs.com

SITE ADDRESS: Street and City: 15541 New Hampshire Avenue, Silver Spring

State: MD

GLOBAL ID NO.:

EDF DELIVERABLE TO (Name, Company, Office Location): Adriane Rogers

PHONE NO.: 301-820-3241

E-MAIL: adriane.rogers@urs.com

CONSULTANT PROJECT NO.: 137675

SAMPLER NAME(S) (Print): Frederick Samples

LAB USE ONLY: JB3852

TURNAROUND TIME (CALENDAR DAYS):
- [ ] STANDARD (14 DAY)
- [ ] 5 DAYS
- [x] 3 DAYS
- [ ] 2 DAYS
- [ ] 24 HOURS
- [ ] RESULTS NEEDED ON WEEKEND

- [ ] LA - RWQCB REPORT FORMAT
- [ ] UST AGENCY:

DELIVERABLES:
- [ ] LEVEL 1
- [x] LEVEL 2
- [ ] LEVEL 3
- [ ] LEVEL 4
- [ ] OTHER (SPECIFY)

TEMPERATURE ON RECEIPT C°: Cooler #1 2°C B; Cooler #2; Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
Seal Intact

- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [ ] RECEIPT VERIFICATION REQUESTED
- [ ] PROVIDE EDD DISK

REQUESTED ANALYSIS

| LAB USE ONLY | Field Sample Identification | SAMPLING DATE | SAMPLING TIME | MATRIX | PRESERVATIVE HCL | HNO3 | H2SO4 | NONE | OTHER | NO. OF CONT. | BTEX, MTBE (8260B) | TPH-DRO (Method 8015) | TPH-GRO (Method 8015) | Container PID Readings or Laboratory Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 137675 - Offsite - Effluent | 4-10-12 | 11:40 | GW | x | | | | | 7 | X | X | X | EX79, 2200 |
| 2 | 137675 - Offsite - Mid3 | | 11:45 | GW | x | | | | | 7 | X | X | X | |
| 3 | 137675 - Offsite - Mid2 | | 11:50 | GW | x | | | | | 7 | X | X | X | |
| 4 | 137675 - Offsite - Mid1 | | 11:55 | GW | x | | | | | 7 | X | X | X | |
| 5 | 137675 - Offsite - Influent | | 12:00 | GW | x | | | | | 7 | X | X | X | |

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
|---|---|---|---|
| | FedX 8740 8085 9362 | | |
| FedX | | | |
| | | 4/11/12 | 0930 |

05/2/06 Revision

ALL SAMPLES RECEIVED PRESERVED AS APPLICABLE

JB3852: Chain of Custody
Page 1 of 2

# Accutest Laboratories Sample Receipt Summary

**Accutest Job Number:** JB3852 **Client:** **Project:**

**Date / Time Received:** 4/11/2012 **Delivery Method:** **Airbill #'s:**

**Cooler Temps (Initial/Adjusted):** #1: (2/2); 0

| Cooler Security | Y | N | | Y | N |
|---|---|---|---|---|---|
| 1. Custody Seals Present: | ☑ | ☐ | 3. COC Present: | ☑ | ☐ |
| 2. Custody Seals Intact: | ☑ | ☐ | 4. Smpl Dates/Time OK | ☑ | ☐ |

| Cooler Temperature | Y | N |
|---|---|---|
| 1. Temp criteria achieved: | ☑ | ☐ |
| 2. Cooler temp verification: | Bar Therm | |
| 3. Cooler media: | Ice (Bag) | |
| 4. No. Coolers: | 1 | |

| Quality Control Preservation | Y | N | N/A |
|---|---|---|---|
| 1. Trip Blank present / cooler: | ☐ | ☑ | ☐ |
| 2. Trip Blank listed on COC: | ☐ | ☑ | ☐ |
| 3. Samples preserved properly: | ☑ | ☐ | |
| 4. VOCs headspace free: | ☑ | ☐ | ☐ |

| Sample Integrity - Documentation | Y | N |
|---|---|---|
| 1. Sample labels present on bottles: | ☑ | ☐ |
| 2. Container labeling complete: | ☑ | ☐ |
| 3. Sample container label / COC agree: | ☑ | ☐ |

| Sample Integrity - Condition | Y | N |
|---|---|---|
| 1. Sample recvd within HT: | ☑ | ☐ |
| 2. All containers accounted for: | ☑ | ☐ |
| 3. Condition of sample: | Intact | |

| Sample Integrity - Instructions | Y | N | N/A |
|---|---|---|---|
| 1. Analysis requested is clear: | ☑ | ☐ | |
| 2. Bottles received for unspecified tests | ☐ | ☑ | |
| 3. Sufficient volume recvd for analysis: | ☑ | ☐ | |
| 4. Compositing instructions clear: | ☐ | ☐ | ☑ |
| 5. Filtering instructions clear: | ☐ | ☐ | ☑ |

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

**JB3852: Chain of Custody**
**Page 2 of 2**

New Jersey
ACCUTEST LABORATORIES



## GC/MS Volatiles

# QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

# Method Blank Summary



**Job Number:** JB3852
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2C4316-MB | 2C94512.D | 1 | 04/11/12 | DR | n/a | n/a | V2C4316 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB3852-1, JB3852-2, JB3852-3, JB3852-4, JB3852-5

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.18 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 101% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98% | 70-127% |
| 2037-26-5 | Toluene-D8 | 100% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | 76-118% |

# Method Blank Summary



**Job Number:** JB3852
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2B4270-MB1 | 2B94692.D | 1 | 04/12/12 | DR | n/a | n/a | V2B4270 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB3852-5

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 104% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 102% | 70-127% |
| 2037-26-5 | Toluene-D8 | 111% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 101% | 76-118% |

# Blank Spike Summary



**Job Number:** JB3852
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2C4316-BS | 2C94513.D | 1 | 04/11/12 | DR | n/a | n/a | V2C4316 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB3852-1, JB3852-2, JB3852-3, JB3852-4, JB3852-5

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | 50 | 43.8 | 88 | 76-119 |
| 100-41-4 | Ethylbenzene | 50 | 45.4 | 91 | 77-119 |
| 1634-04-4 | Methyl Tert Butyl Ether | 100 | 83.6 | 84 | 72-125 |
| 108-88-3 | Toluene | 50 | 45.4 | 91 | 77-122 |
| 1330-20-7 | Xylene (total) | 150 | 134 | 89 | 78-121 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 103% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98% | 70-127% |
| 2037-26-5 | Toluene-D8 | 101% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | 76-118% |

# Blank Spike Summary



**Job Number:** JB3852
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2B4270-BS | 2B94693.D | 1 | 04/12/12 | DR | n/a | n/a | V2B4270 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB3852-5

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | 50 | 52.8 | 106 | 76-119 |
| 100-41-4 | Ethylbenzene | 50 | 51.3 | 103 | 77-119 |
| 108-88-3 | Toluene | 50 | 53.0 | 106 | 77-122 |
| 1330-20-7 | Xylene (total) | 150 | 153 | 102 | 78-121 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 105% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 101% | 70-127% |
| 2037-26-5 | Toluene-D8 | 113% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 102% | 76-118% |

# Matrix Spike Summary



**Job Number:** JB3852
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB3852-2MS | 2C94514.D | 1 | 04/11/12 | DR | n/a | n/a | V2C4316 |
| JB3852-2 | 2C94516.D | 1 | 04/11/12 | DR | n/a | n/a | V2C4316 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB3852-1, JB3852-2, JB3852-3, JB3852-4, JB3852-5

| CAS No. | Compound | JB3852-2 ug/l | Q | Spike ug/l | MS ug/l | MS % | Limits |
|---|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 50 | 48.3 | 97 | 40-139 |
| 100-41-4 | Ethylbenzene | ND | | 50 | 49.7 | 99 | 40-140 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 50 | 46.8 | 94 | 54-136 |
| 108-88-3 | Toluene | ND | | 50 | 49.5 | 99 | 47-140 |
| 1330-20-7 | Xylene (total) | ND | | 150 | 149 | 99 | 42-140 |

| CAS No. | Surrogate Recoveries | MS | JB3852-2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 103% | 101% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98% | 97% | 70-127% |
| 2037-26-5 | Toluene-D8 | 100% | 101% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 98% | 98% | 76-118% |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB3852
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB3906-3MS | 2B94701.D | 5 | 04/12/12 | DR | n/a | n/a | V2B4270 |
| JB3906-3MSD | 2B94702.D | 5 | 04/12/12 | DR | n/a | n/a | V2B4270 |
| JB3906-3 | 2B94697.D | 5 | 04/12/12 | DR | n/a | n/a | V2B4270 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB3852-5

| CAS No. | Compound | JB3906-3 ug/l | Q | Spike ug/l | MS ug/l | MS % | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | 43.1 | | 250 | 305 | 105 | 305 | 105 | 0 | 40-139/12 |
| 100-41-4 | Ethylbenzene | 387 | | 250 | 634 | 99 | 632 | 98 | 0 | 40-140/12 |
| 108-88-3 | Toluene | 15.9 | | 250 | 281 | 106 | 283 | 107 | 1 | 47-140/12 |
| 1330-20-7 | Xylene (total) | 746 | | 750 | 1520 | 103 | 1510 | 102 | 1 | 42-140/12 |

| CAS No. | Surrogate Recoveries | MS | MSD | JB3906-3 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 104% | 103% | 103% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 101% | 100% | 101% | 70-127% |
| 2037-26-5 | Toluene-D8 | 112% | 114% | 113% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | 101% | 99% | 76-118% |

# Duplicate Summary



**Job Number:** JB3852
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB3852-3DUP | 2C94517.D | 1 | 04/11/12 | DR | n/a | n/a | V2C4316 |
| JB3852-3 | 2C94518.D | 1 | 04/12/12 | DR | n/a | n/a | V2C4316 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB3852-1, JB3852-2, JB3852-3, JB3852-4, JB3852-5

| CAS No. | Compound | JB3852-3 ug/l | Q | DUP ug/l | Q | RPD | Limits |
|---|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | ND | | nc | 10 |
| 100-41-4 | Ethylbenzene | ND | | ND | | nc | 12 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | ND | | nc | 16 |
| 108-88-3 | Toluene | ND | | ND | | nc | 10 |
| 1330-20-7 | Xylene (total) | ND | | ND | | nc | 13 |

| CAS No. | Surrogate Recoveries | DUP | JB3852-3 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 102% | 100% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98% | 97% | 70-127% |
| 2037-26-5 | Toluene-D8 | 100% | 101% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | 100% | 76-118% |

# Instrument Performance Check (BFB)



**Job Number:** JB3852
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Sample:** V2B4212-BFB
**Lab File ID:** 2B93453.D
**Instrument ID:** GCMS2B
**Injection Date:** 03/09/12
**Injection Time:** 09:57



| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 21824 | 19.4 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 54306 | 48.3 | | Pass |
| 95 | Base peak, 100% relative abundance | 112544 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 7566 | 6.72 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 150.0% of mass 95 | 110706 | 98.4 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 8263 | 7.34 | (7.46) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 107354 | 95.4 | (97.0) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 7173 | 6.37 | (6.68) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2B4212-IC4212 | 2B93454.D | 03/09/12 | 10:25 | 00:28 | Initial cal 0.5 |
| V2B4212-IC4212 | 2B93455.D | 03/09/12 | 10:56 | 00:59 | Initial cal 1 |
| V2B4212-IC4212 | 2B93456.D | 03/09/12 | 11:27 | 01:30 | Initial cal 2 |
| V2B4212-IC4212 | 2B93457.D | 03/09/12 | 11:59 | 02:02 | Initial cal 5 |
| V2B4212-IC4212 | 2B93458.D | 03/09/12 | 12:30 | 02:33 | Initial cal 10 |
| V2B4212-IC4212 | 2B93459.D | 03/09/12 | 13:01 | 03:04 | Initial cal 20 |
| V2B4212-ICC4212 | 2B93460.D | 03/09/12 | 13:33 | 03:36 | Initial cal 50 |
| V2B4212-IC4212 | 2B93461.D | 03/09/12 | 14:04 | 04:07 | Initial cal 100 |
| V2B4212-IC4212 | 2B93462.D | 03/09/12 | 14:35 | 04:38 | Initial cal 200 |
| V2B4212-ICV4212 | 2B93465.D | 03/09/12 | 16:09 | 06:12 | Initial cal verification 50 |
| V2B4212-ICV4212 | 2B93466.D | 03/09/12 | 17:18 | 07:21 | Initial cal verification 50 |

# Instrument Performance Check (BFB)



**Job Number:** JB3852
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Sample:** V2B4270-BFB
**Lab File ID:** 2B94689.D
**Instrument ID:** GCMS2B
**Injection Date:** 04/12/12
**Injection Time:** 12:12

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 20073 | 19.8 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 48552 | 47.8 | | Pass |
| 95 | Base peak, 100% relative abundance | 101488 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 6753 | 6.65 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 150.0% of mass 95 | 92370 | 91.0 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 6792 | 6.69 | (7.35) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 91229 | 89.9 | (98.8) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 6050 | 5.96 | (6.63) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2B4270-CC4212 | 2B94690.D | 04/12/12 | 12:45 | 00:33 | Continuing cal 20 |
| V2B4270-MB1 | 2B94692.D | 04/12/12 | 13:51 | 01:39 | Method Blank |
| V2B4270-BS | 2B94693.D | 04/12/12 | 14:22 | 02:10 | Blank Spike |
| JB3906-3 | 2B94697.D | 04/12/12 | 16:39 | 04:27 | (used for QC only; not part of job JB3852) |
| JB3852-5 | 2B94700.D | 04/12/12 | 18:13 | 06:01 | 137675 - OFFSITE - INFLUENT |
| JB3906-3MS | 2B94701.D | 04/12/12 | 18:45 | 06:33 | Matrix Spike |
| JB3906-3MSD | 2B94702.D | 04/12/12 | 19:16 | 07:04 | Matrix Spike Duplicate |
| ZZZZZZ | 2B94704.D | 04/12/12 | 20:19 | 08:07 | (unrelated sample) |
| ZZZZZZ | 2B94705.D | 04/12/12 | 20:50 | 08:38 | (unrelated sample) |
| ZZZZZZ | 2B94707.D | 04/12/12 | 21:53 | 09:41 | (unrelated sample) |
| ZZZZZZ | 2B94709.D | 04/12/12 | 22:55 | 10:43 | (unrelated sample) |

# Instrument Performance Check (BFB)



**Job Number:** JB3852
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Sample:** V2C4294-BFB
**Lab File ID:** 2C94032.D
**Instrument ID:** GCMS2C
**Injection Date:** 03/30/12
**Injection Time:** 08:43



| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 10251 | 16.1 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 28864 | 45.3 | | Pass |
| 95 | Base peak, 100% relative abundance | 63770 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 4086 | 6.41 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 150.0% of mass 95 | 56680 | 88.9 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 4338 | 6.80 | (7.65) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 54720 | 85.8 | (96.5) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 3477 | 5.45 | (6.35) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2C4294-IC4294 | 2C94034.D | 03/30/12 | 09:46 | 01:03 | Initial cal 1 |
| V2C4294-IC4294 | 2C94035.D | 03/30/12 | 10:16 | 01:33 | Initial cal 2 |
| V2C4294-IC4294 | 2C94036.D | 03/30/12 | 10:47 | 02:04 | Initial cal 5 |
| V2C4294-IC4294 | 2C94037.D | 03/30/12 | 11:17 | 02:34 | Initial cal 10 |
| V2C4294-IC4294 | 2C94038.D | 03/30/12 | 11:47 | 03:04 | Initial cal 20 |
| V2C4294-ICC4294 | 2C94039.D | 03/30/12 | 12:18 | 03:35 | Initial cal 50 |
| V2C4294-IC4294 | 2C94040.D | 03/30/12 | 12:48 | 04:05 | Initial cal 100 |
| V2C4294-IC4294 | 2C94041.D | 03/30/12 | 13:18 | 04:35 | Initial cal 200 |
| V2C4294-ICV4294 | 2C94044.D | 03/30/12 | 15:33 | 06:50 | Initial cal verification 50 |

# Instrument Performance Check (BFB)



**Job Number:** JB3852
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Sample:** V2C4316-BFB
**Lab File ID:** 2C94509.D
**Instrument ID:** GCMS2C
**Injection Date:** 04/11/12
**Injection Time:** 19:54



| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 8656 | 16.7 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 23901 | 46.0 | | Pass |
| 95 | Base peak, 100% relative abundance | 51904 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 3369 | 6.49 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 150.0% of mass 95 | 44920 | 86.5 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 3433 | 6.61 | (7.64) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 43906 | 84.6 | (97.7) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 2862 | 5.51 | (6.52) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2C4316-CC4294 | 2C94510.D | 04/11/12 | 20:25 | 00:31 | Continuing cal 50 |
| V2C4316-MB | 2C94512.D | 04/11/12 | 21:25 | 01:31 | Method Blank |
| V2C4316-BS | 2C94513.D | 04/11/12 | 21:56 | 02:02 | Blank Spike |
| JB3852-2MS | 2C94514.D | 04/11/12 | 22:26 | 02:32 | Matrix Spike |
| JB3852-2 | 2C94516.D | 04/11/12 | 23:27 | 03:33 | 137675 - OFFSITE - MID3 |
| JB3852-3DUP | 2C94517.D | 04/11/12 | 23:58 | 04:04 | Duplicate |
| JB3852-3 | 2C94518.D | 04/12/12 | 00:28 | 04:34 | 137675 - OFFSITE - MID2 |
| JB3852-1 | 2C94519.D | 04/12/12 | 00:58 | 05:04 | 137675 - OFFSITE - EFFLUENT |
| JB3852-4 | 2C94520.D | 04/12/12 | 01:29 | 05:35 | 137675 - OFFSITE - MID1 |
| JB3852-4 | 2C94521.D | 04/12/12 | 01:59 | 06:05 | 137675 - OFFSITE - MID1 |
| JB3852-5 | 2C94522.D | 04/12/12 | 02:30 | 06:36 | 137675 - OFFSITE - INFLUENT |
| ZZZZZZ | 2C94523.D | 04/12/12 | 03:00 | 07:06 | (unrelated sample) |
| ZZZZZZ | 2C94524.D | 04/12/12 | 03:30 | 07:36 | (unrelated sample) |
| ZZZZZZ | 2C94525.D | 04/12/12 | 04:01 | 08:07 | (unrelated sample) |
| ZZZZZZ | 2C94526.D | 04/12/12 | 04:31 | 08:37 | (unrelated sample) |
| ZZZZZZ | 2C94527.D | 04/12/12 | 05:01 | 09:07 | (unrelated sample) |
| ZZZZZZ | 2C94528.D | 04/12/12 | 05:32 | 09:38 | (unrelated sample) |
| ZZZZZZ | 2C94529.D | 04/12/12 | 06:02 | 10:08 | (unrelated sample) |
| ZZZZZZ | 2C94530.D | 04/12/12 | 06:33 | 10:39 | (unrelated sample) |

# Volatile Surrogate Recovery Summary



**Job Number:** JB3852
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Method:** SW846 8260B **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 | S2 | S3 | S4 |
|---|---|---|---|---|---|
| JB3852-1 | 2C94519.D | 101.0 | 97.0 | 99.0 | 101.0 |
| JB3852-2 | 2C94516.D | 101.0 | 97.0 | 101.0 | 98.0 |
| JB3852-3 | 2C94518.D | 100.0 | 97.0 | 101.0 | 100.0 |
| JB3852-4 | 2C94521.D | 100.0 | 98.0 | 101.0 | 99.0 |
| JB3852-4 | 2C94520.D | 100.0 | 98.0 | 101.0 | 100.0 |
| JB3852-5 | 2B94700.D | 102.0 | 103.0 | 112.0 | 102.0 |
| JB3852-5 | 2C94522.D | 102.0 | 98.0 | 101.0 | 99.0 |
| JB3852-2MS | 2C94514.D | 103.0 | 98.0 | 100.0 | 98.0 |
| JB3852-3DUP | 2C94517.D | 102.0 | 98.0 | 100.0 | 99.0 |
| JB3906-3MS | 2B94701.D | 104.0 | 101.0 | 112.0 | 100.0 |
| JB3906-3MSD | 2B94702.D | 103.0 | 100.0 | 114.0 | 101.0 |
| V2B4270-BS | 2B94693.D | 105.0 | 101.0 | 113.0 | 102.0 |
| V2B4270-MB1 | 2B94692.D | 104.0 | 102.0 | 111.0 | 101.0 |
| V2C4316-BS | 2C94513.D | 103.0 | 98.0 | 101.0 | 99.0 |
| V2C4316-MB | 2C94512.D | 101.0 | 98.0 | 100.0 | 99.0 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = Dibromofluoromethane | 77-120% |
| **S2** = 1,2-Dichloroethane-D4 | 70-127% |
| **S3** = Toluene-D8 | 79-120% |
| **S4** = 4-Bromofluorobenzene | 76-118% |

New Jersey
ACCUTEST LABORATORIES



# GC Volatiles

## QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

# Method Blank Summary



**Job Number:** JB3852
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| GUV3842-MB1 | UV97410.D | 1 | 04/12/12 | XPL | n/a | n/a | GUV3842 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB3852-1, JB3852-2, JB3852-3, JB3852-4, JB3852-5

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 80% | 68-114% |

# Blank Spike Summary



**Job Number:** JB3852
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| GUV3842-BS | UV97411.D | 1 | 04/13/12 | XPL | n/a | n/a | GUV3842 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB3852-1, JB3852-2, JB3852-3, JB3852-4, JB3852-5

| CAS No. | Compound | Spike mg/l | BSP mg/l | BSP % | Limits |
|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 8 | 7.22 | 90 | 72-125 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 101% | 68-114% |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB3852
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB3852-2MS | UV97417.D | 1 | 04/13/12 | XPL | n/a | n/a | GUV3842 |
| JB3852-2MSD | UV97418.D | 1 | 04/13/12 | XPL | n/a | n/a | GUV3842 |
| JB3852-2 | UV97412.D | 1 | 04/13/12 | XPL | n/a | n/a | GUV3842 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB3852-1, JB3852-2, JB3852-3, JB3852-4, JB3852-5

| CAS No. | Compound | JB3852-2 mg/l | Q | Spike mg/l | MS mg/l | MS % | MSD mg/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | | 8 | 6.04 | 76 | 5.99 | 75 | 1 | 46-131/20 |

| CAS No. | Surrogate Recoveries | MS | MSD | JB3852-2 | Limits |
|---|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 92% | 92% | 80% | 68-114% |

# Volatile Surrogate Recovery Summary



**Job Number:** JB3852
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Method:** SW846 8015C **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 [a] |
|---|---|---|
| JB3852-1 | UV97415.D | 78.0 |
| JB3852-2 | UV97412.D | 80.0 |
| JB3852-3 | UV97413.D | 79.0 |
| JB3852-4 | UV97414.D | 80.0 |
| JB3852-5 | UV97416.D | 78.0 |
| GUV3842-BS | UV97411.D | 101.0 |
| GUV3842-MB1 | UV97410.D | 80.0 |
| JB3852-2MS | UV97417.D | 92.0 |
| JB3852-2MSD | UV97418.D | 92.0 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = aaa-Trifluorotoluene | 68-114% |

(a) Recovery from GC signal #1

New Jersey
ACCUTEST LABORATORIES



## GC Semi-volatiles

## QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

# Method Blank Summary



**Job Number:** JB3852
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP56232-MB1 | 5Y2292.D | 1 | 04/13/12 | CS | 04/12/12 | OP56232 | G5Y72 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB3852-1, JB3852-2, JB3852-3, JB3852-4, JB3852-5

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 84-15-1 | o-Terphenyl | 74% | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 71% | 32-138% |
| 438-22-2 | 5a-Androstane | 86% | 31-136% |

# Blank Spike Summary



**Job Number:** JB3852
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP56232-BS1 | 5Y2293.D | 1 | 04/13/12 | CS | 04/12/12 | OP56232 | G5Y72 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB3852-1, JB3852-2, JB3852-3, JB3852-4, JB3852-5

| CAS No. | Compound | Spike mg/l | BSP mg/l | BSP % | Limits |
|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | 1 | 0.864 | 86 | 15-111 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 84-15-1 | o-Terphenyl | 91% | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 83% | 32-138% |
| 438-22-2 | 5a-Androstane | 107% | 31-136% |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB3852
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP56232-MS | 5Y2294.D | 1 | 04/13/12 | CS | 04/12/12 | OP56232 | G5Y72 |
| OP56232-MSD | 5Y2295.D | 1 | 04/13/12 | CS | 04/12/12 | OP56232 | G5Y72 |
| JB3863-1 | 5Y2303.D | 1 | 04/13/12 | CS | 04/12/12 | OP56232 | G5Y72 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB3852-1, JB3852-2, JB3852-3, JB3852-4, JB3852-5

| CAS No. | Compound | JB3863-1 mg/l | Q | Spike mg/l | MS mg/l | MS % | MSD mg/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | 3.32 | | 2.06 | 5.75 | 118 | 5.99 | 129 | 4 | 23-160/31 |

| CAS No. | Surrogate Recoveries | MS | MSD | JB3863-1 | Limits |
|---|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 79% | 78% | 64% | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 77% | 76% | 61% | 32-138% |
| 438-22-2 | 5a-Androstane | 104% | 100% | 86% | 31-136% |

# Semivolatile Surrogate Recovery Summary



**Job Number:** JB3852
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Method:** SW846 8015C **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 [a] | S2 [a] | S3 [a] |
|---|---|---|---|---|
| JB3852-1 | 5Y2296.D | 78.0 | 70.0 | 88.0 |
| JB3852-2 | 5Y2297.D | 90.0 | 79.0 | 103.0 |
| JB3852-3 | 5Y2298.D | 90.0 | 78.0 | 101.0 |
| JB3852-4 | 5Y2299.D | 92.0 | 77.0 | 99.0 |
| JB3852-5 | 5Y2300.D | 87.0 | 75.0 | 99.0 |
| OP56232-BS1 | 5Y2293.D | 91.0 | 83.0 | 107.0 |
| OP56232-MB1 | 5Y2292.D | 74.0 | 71.0 | 86.0 |
| OP56232-MS | 5Y2294.D | 79.0 | 77.0 | 104.0 |
| OP56232-MSD | 5Y2295.D | 78.0 | 76.0 | 100.0 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = o-Terphenyl | 36-144% |
| **S2** = Tetracosane-d50 | 32-138% |
| **S3** = 5a-Androstane | 31-136% |

(a) Recovery from GC signal #1

7.4.1

7

New Jersey
ACCUTEST LABORATORIES

05/02/12

# Technical Report for

Shell Oil Products US

URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

INC#97436977

Accutest Job Number: JB4897

Sampling Date: 04/24/12

Report to:

URS Corporation
12420 Milestone Center Drive Suite 150
Germantown, MD 20876
jenna_anthony@urscorp.com; adriane_rogers@urscorp.com

ATTN: Jenna Anthony

Total number of pages in report: **45**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul Ioannidis
Lab Director

Client Service contact: Marty Vitanza 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.



Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

# Table of Contents

-1-

**Section 1: Sample Summary** ..... **3**
**Section 2: Case Narrative/Conformance Summary** ..... **4**
**Section 3: Sample Results** ..... **5**
**3.1:** JB4897-1: 137675-OFFSITE-EFFLUENT ..... 6
**3.2:** JB4897-2: 137675-OFFSITE-MID3 ..... 9
**3.3:** JB4897-3: 137675-OFFSITE-MID2 ..... 12
**3.4:** JB4897-4: 137675-OFFSITE-MID1 ..... 15
**3.5:** JB4897-5: 137675-OFFSITE-INFLUENT ..... 18
**Section 4: Misc. Forms** ..... **21**
**4.1:** Chain of Custody ..... 22
**Section 5: GC/MS Volatiles - QC Data Summaries** ..... **24**
**5.1:** Method Blank Summary ..... 25
**5.2:** Blank Spike Summary ..... 27
**5.3:** Matrix Spike/Matrix Spike Duplicate Summary ..... 29
**5.4:** Instrument Performance Checks (BFB) ..... 31
**5.5:** Surrogate Recovery Summaries ..... 34
**Section 6: GC Volatiles - QC Data Summaries** ..... **35**
**6.1:** Method Blank Summary ..... 36
**6.2:** Blank Spike Summary ..... 38
**6.3:** Matrix Spike/Matrix Spike Duplicate Summary ..... 39
**6.4:** Surrogate Recovery Summaries ..... 40
**Section 7: GC Semi-volatiles - QC Data Summaries** ..... **41**
**7.1:** Method Blank Summary ..... 42
**7.2:** Blank Spike Summary ..... 43
**7.3:** Matrix Spike/Matrix Spike Duplicate Summary ..... 44
**7.4:** Surrogate Recovery Summaries ..... 45

Accutest Laboratories

# Sample Summary

Shell Oil Products US

**Job No:** JB4897

URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD
Project No: INC#97436977

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| JB4897-1 | 04/24/12 | 10:30 | RS | 04/25/12 | AQ | Effluent | 137675-OFFSITE-EFFLUENT |
| JB4897-2 | 04/24/12 | 10:35 | RS | 04/25/12 | AQ | Ground Water | 137675-OFFSITE-MID3 |
| JB4897-3 | 04/24/12 | 10:40 | RS | 04/25/12 | AQ | Ground Water | 137675-OFFSITE-MID2 |
| JB4897-4 | 04/24/12 | 10:45 | RS | 04/25/12 | AQ | Ground Water | 137675-OFFSITE-MID1 |
| JB4897-5 | 04/24/12 | 10:50 | RS | 04/25/12 | AQ | Influent | 137675-OFFSITE-INFLUENT |

# CASE NARRATIVE / CONFORMANCE SUMMARY

| | | | |
|---|---|---|---|
| **Client:** | Shell Oil Products US | **Job No** | JB4897 |
| **Site:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Sprin | **Report Date** | 5/2/2012 3:09:15 PM |

On 04/25/2012, 5 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 3 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB4897 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

## Volatiles by GCMS By Method SW846 8260B

**Matrix:** AQ **Batch ID:** VS6530

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB4897-5MS, JB4897-5MSD were used as the QC samples indicated.

**Matrix:** AQ **Batch ID:** VS6532

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB4691-1MS, JB4691-1MSD were used as the QC samples indicated.

## Volatiles by GC By Method SW846 8015C

**Matrix:** AQ **Batch ID:** GUV3852

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB4897-2MS, JB4897-2MSD were used as the QC samples indicated.

## Extractables by GC By Method SW846 8015C

**Matrix:** AQ **Batch ID:** OP56566

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB4897-1MS, JB4897-1MSD were used as the QC samples indicated.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

New Jersey

ACCUTEST LABORATORIES



## Sample Results

Report of Analysis

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-EFFLUENT | | |
| **Lab Sample ID:** | JB4897-1 | **Date Sampled:** | 04/24/12 |
| **Matrix:** | AQ - Effluent | **Date Received:** | 04/25/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | S159467.D | 1 | 04/27/12 | NT | n/a | n/a | VS6532 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**Purgeable Aromatics, MTBE**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.18 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 102% | | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 94% | | 70-127% |
| 2037-26-5 | Toluene-D8 | 101% | | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | | 76-118% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-EFFLUENT | | |
| **Lab Sample ID:** | JB4897-1 | **Date Sampled:** | 04/24/12 |
| **Matrix:** | AQ - Effluent | **Date Received:** | 04/25/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV97725.D | 1 | 04/26/12 | DJ | n/a | n/a | GUV3852 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 86% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-EFFLUENT | | |
| **Lab Sample ID:** | JB4897-1 | **Date Sampled:** | 04/24/12 |
| **Matrix:** | AQ - Effluent | **Date Received:** | 04/25/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Y44437.D | 1 | 04/27/12 | CS | 04/26/12 | OP56566 | G2Y1829 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 840 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.12 | 0.0042 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 78% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 71% | | 32-138% |
| 438-22-2 | 5a-Androstane | 81% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-MID3 | | |
| **Lab Sample ID:** | JB4897-2 | **Date Sampled:** | 04/24/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 04/25/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | S159419.D | 1 | 04/26/12 | NT | n/a | n/a | VS6530 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**Purgeable Aromatics, MTBE**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.18 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 102% | | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 94% | | 70-127% |
| 2037-26-5 | Toluene-D8 | 101% | | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 96% | | 76-118% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-MID3 | | |
| **Lab Sample ID:** | JB4897-2 | **Date Sampled:** | 04/24/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 04/25/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV97719.D | 1 | 04/26/12 | DJ | n/a | n/a | GUV3852 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 87% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-MID3 | | |
| **Lab Sample ID:** | JB4897-2 | **Date Sampled:** | 04/24/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 04/25/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Y44438.D | 1 | 04/27/12 | CS | 04/26/12 | OP56566 | G2Y1829 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 900 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.11 | 0.0039 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 78% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 70% | | 32-138% |
| 438-22-2 | 5a-Androstane | 81% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-MID2 | | |
| **Lab Sample ID:** | JB4897-3 | **Date Sampled:** | 04/24/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 04/25/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | S159420.D | 1 | 04/26/12 | NT | n/a | n/a | VS6530 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**Purgeable Aromatics, MTBE**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.18 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 103% | | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 94% | | 70-127% |
| 2037-26-5 | Toluene-D8 | 100% | | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | | 76-118% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-MID2 | | |
| **Lab Sample ID:** | JB4897-3 | **Date Sampled:** | 04/24/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 04/25/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV97726.D | 1 | 04/26/12 | DJ | n/a | n/a | GUV3852 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 88% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-MID2 | | |
| **Lab Sample ID:** | JB4897-3 | **Date Sampled:** | 04/24/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 04/25/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Y44439.D | 1 | 04/27/12 | CS | 04/26/12 | OP56566 | G2Y1829 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 860 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.12 | 0.0041 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 75% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 70% | | 32-138% |
| 438-22-2 | 5a-Androstane | 78% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-MID1 | | |
| **Lab Sample ID:** | JB4897-4 | **Date Sampled:** | 04/24/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 04/25/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | S159414.D | 1 | 04/26/12 | NT | n/a | n/a | VS6530 |
| Run #2 | S159466.D | 10 | 04/27/12 | NT | n/a | n/a | VS6532 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**Purgeable Aromatics, MTBE**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 397 [a] | 10 | 1.8 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 103% | 100% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 94% | 92% | 70-127% |
| 2037-26-5 | Toluene-D8 | 101% | 102% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 98% | 97% | 76-118% |

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-MID1 | | |
| **Lab Sample ID:** | JB4897-4 | **Date Sampled:** | 04/24/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 04/25/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV97727.D | 1 | 04/26/12 | DJ | n/a | n/a | GUV3852 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 0.574 | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 87% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-MID1 | | |
| **Lab Sample ID:** | JB4897-4 | **Date Sampled:** | 04/24/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 04/25/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Y44440.D | 1 | 04/27/12 | CS | 04/26/12 | OP56566 | G2Y1829 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 890 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.11 | 0.0039 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 86% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 75% | | 32-138% |
| 438-22-2 | 5a-Androstane | 86% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-INFLUENT | | |
| **Lab Sample ID:** | JB4897-5 | **Date Sampled:** | 04/24/12 |
| **Matrix:** | AQ - Influent | **Date Received:** | 04/25/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | S159470.D | 5 | 04/27/12 | NT | n/a | n/a | VS6532 |
| Run #2 | S159413.D | 20 | 04/26/12 | NT | n/a | n/a | VS6530 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**Purgeable Aromatics, MTBE**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | 2.3 | 5.0 | 1.1 | ug/l | J |
| 108-88-3 | Toluene | ND | 5.0 | 0.73 | ug/l | |
| 100-41-4 | Ethylbenzene | 4.4 | 5.0 | 1.1 | ug/l | J |
| 1330-20-7 | Xylene (total) | 3.6 | 5.0 | 0.87 | ug/l | J |
| 1634-04-4 | Methyl Tert Butyl Ether | 1620 [a] | 20 | 3.7 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 99% | 103% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 93% | 94% | 70-127% |
| 2037-26-5 | Toluene-D8 | 101% | 101% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 103% | 98% | 76-118% |

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-INFLUENT | | |
| **Lab Sample ID:** | JB4897-5 | **Date Sampled:** | 04/24/12 |
| **Matrix:** | AQ - Influent | **Date Received:** | 04/25/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV97728.D | 1 | 04/26/12 | DJ | n/a | n/a | GUV3852 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 1.84 | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 87% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-INFLUENT | | |
| **Lab Sample ID:** | JB4897-5 | **Date Sampled:** | 04/24/12 |
| **Matrix:** | AQ - Influent | **Date Received:** | 04/25/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Y44441.D | 1 | 04/27/12 | CS | 04/26/12 | OP56566 | G2Y1829 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 850 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.12 | 0.0041 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 83% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 73% | | 32-138% |
| 438-22-2 | 5a-Androstane | 83% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey

4

# Misc. Forms

## Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

# Shell Oil Products Chain Of Custody Record

URS

**LAB (LOCATION)**
- [x] ACCUTEST ( )
- [ ] CALSCIENCE ( )
- [ ] TESTAMERICA ( )
- [ ] Other ( )

Lab Vendor # 1813640 (Accutest)

**Please Check Appropriate Box:**
- [x] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [ ] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER

**Print Bill To Contact Name:** Adriane Rogers

PO #

INCIDENT # (ENV SERVICES): 9 7 4 3 6 9 7 7

SAP #: 1 3 7 6 7 5

[ ] CHECK IF NO INCIDENT # APPLIES

DATE: 4-24-12

Page 1 of 1

SAMPLING COMPANY: URS CORPORATION

LOG CODE:

SITE ADDRESS: Street and City: 15541 New Hampshire Avenue, Silver Spring

State: MD

GLOBAL ID NO.:

ADDRESS: 12420 Milestone Center Drive Suite 150, Germantown, MD 20876

EDF DELIVERABLE TO (Name, Company, Office Location): Adriane Rogers

PHONE NO.: 301-820-3241

E-MAIL: adriane.rogers@urs.com

CONSULTANT PROJECT NO.: 137675

PROJECT CONTACT (Hardcopy or PDF Report to): Adriane Rogers

TELEPHONE: 301-820-3000

FAX: 301-820-3409

Bill To Contact E-MAIL: adriane.rogers@urs.com

SAMPLER NAME(S) (Print): Roderick Sample

LAB USE ONLY: JB4897

TURNAROUND TIME (CALENDAR DAYS):
- [ ] STANDARD (14 DAY)
- [ ] 5 DAYS
- [x] 3 DAYS
- [ ] 2 DAYS
- [ ] 24 HOURS
- [ ] RESULTS NEEDED ON WEEKEND

- [ ] LA - RWQCB REPORT FORMAT
- [ ] UST AGENCY:

DELIVERABLES: [ ] LEVEL 1 [x] LEVEL 2 [ ] LEVEL 3 [ ] LEVEL 4 [ ] OTHER (SPECIFY)

TEMPERATURE ON RECEIPT C°: Cooler #1 3.0°C; Cooler #2; Cooler #3

**SPECIAL INSTRUCTIONS OR NOTES :**
- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [ ] RECEIPT VERIFICATION REQUESTED
- [ ] PROVIDE LEDD DISK

REQUESTED ANALYSIS

| LAB USE ONLY | Field Sample Identification | SAMPLING DATE | SAMPLING TIME | MATRIX | PRESERVATIVE HCL | HNO3 | H2SO4 | NONE | OTHER | NO. OF CONT. | BTEX, MTBE (8260B) | TPH-DRO (Method 8015) | TPH-GRO (Method 8015) | Container PID Readings or Laboratory Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 137675 - Offsite - Effluent | 4/24/12 | 10:30 | GW | x | | | | | 7 | X | X | X | EX83 2050 |
| 2 | 137675 - Offsite - Mid3 | | 10:35 | GW | x | | | | | 7 | X | X | X | |
| 3 | 137675 - Offsite - Mid2 | | 10:40 | GW | x | | | | | 7 | X | X | X | |
| 4 | 137675 - Offsite - Mid1 | | 10:45 | GW | x | | | | | 7 | X | X | X | |
| 5 | 137675 - Offsite - Influent | | 10:50 | GW | x | | | | | 7 | X | X | X | |

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

ALL SAMPLES RECEIVED ACCEPTED AS APPLIED

TM 4/25/12

| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
|---|---|---|---|
| | Fed | | |
| Fed | Martina | 4/25/12 | 0930 |
| | | | |

05/2/06 Revision

TRK #898611431369

Seal #710 rec'd in tact TM 4/25/12

1A

TM

**JB4897: Chain of Custody**

**Page 1 of 2**

# Accutest Laboratories Sample Receipt Summary

**Accutest Job Number:** JB4897 **Client:** **Project:**

**Date / Time Received:** 4/25/2012 **Delivery Method:** **Airbill #'s:**

**Cooler Temps (Initial/Adjusted):** #1: (3/3); 0

| Cooler Security | Y | N | | Y | N |
|---|---|---|---|---|---|
| 1. Custody Seals Present: | ☑ | ☐ | 3. COC Present: | ☑ | ☐ |
| 2. Custody Seals Intact: | ☑ | ☐ | 4. Smpl Dates/Time OK | ☑ | ☐ |

| Cooler Temperature | Y | N |
|---|---|---|
| 1. Temp criteria achieved: | ☑ | ☐ |
| 2. Cooler temp verification: | Bar Therm | |
| 3. Cooler media: | Ice (Bag) | |
| 4. No. Coolers: | 1 | |

| Quality Control Preservation | Y | N | N/A |
|---|---|---|---|
| 1. Trip Blank present / cooler: | ☐ | ☑ | ☐ |
| 2. Trip Blank listed on COC: | ☐ | ☑ | ☐ |
| 3. Samples preserved properly: | ☑ | ☐ | |
| 4. VOCs headspace free: | ☑ | ☐ | ☐ |

| Sample Integrity - Documentation | Y | N |
|---|---|---|
| 1. Sample labels present on bottles: | ☑ | ☐ |
| 2. Container labeling complete: | ☑ | ☐ |
| 3. Sample container label / COC agree: | ☑ | ☐ |

| Sample Integrity - Condition | Y | N |
|---|---|---|
| 1. Sample recvd within HT: | ☑ | ☐ |
| 2. All containers accounted for: | ☑ | ☐ |
| 3. Condition of sample: | Intact | |

| Sample Integrity - Instructions | Y | N | N/A |
|---|---|---|---|
| 1. Analysis requested is clear: | ☑ | ☐ | |
| 2. Bottles received for unspecified tests | ☐ | ☑ | |
| 3. Sufficient volume recvd for analysis: | ☑ | ☐ | |
| 4. Compositing instructions clear: | ☐ | ☐ | ☑ |
| 5. Filtering instructions clear: | ☐ | ☐ | ☑ |

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

**JB4897: Chain of Custody**
**Page 2 of 2**

New Jersey

ACCUTEST LABORATORIES



# GC/MS Volatiles

## QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

# Method Blank Summary



**Job Number:** JB4897
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VS6530-MB1 | S159407.D | 1 | 04/26/12 | NT | n/a | n/a | VS6530 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB4897-2, JB4897-3, JB4897-4, JB4897-5

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.18 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 103% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 94% | 70-127% |
| 2037-26-5 | Toluene-D8 | 101% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | 76-118% |

# Method Blank Summary



**Job Number:** JB4897
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VS6532-MB1 | S159460.D | 1 | 04/27/12 | NT | n/a | n/a | VS6532 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB4897-1, JB4897-4, JB4897-5

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.18 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 103% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 93% | 70-127% |
| 2037-26-5 | Toluene-D8 | 99% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | 76-118% |

# Blank Spike Summary



**Job Number:** JB4897
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VS6530-BS | S159408.D | 1 | 04/26/12 | NT | n/a | n/a | VS6530 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB4897-2, JB4897-3, JB4897-4, JB4897-5

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | 50 | 50.3 | 101 | 76-119 |
| 100-41-4 | Ethylbenzene | 50 | 50.0 | 100 | 77-119 |
| 1634-04-4 | Methyl Tert Butyl Ether | 50 | 55.4 | 111 | 72-125 |
| 108-88-3 | Toluene | 50 | 52.7 | 105 | 77-122 |
| 1330-20-7 | Xylene (total) | 150 | 148 | 99 | 78-121 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 102% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 99% | 70-127% |
| 2037-26-5 | Toluene-D8 | 100% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 92% | 76-118% |

# Blank Spike Summary



**Job Number:** JB4897
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VS6532-BS | S159461.D | 1 | 04/27/12 | NT | n/a | n/a | VS6532 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB4897-1, JB4897-4, JB4897-5

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | 50 | 50.2 | 100 | 76-119 |
| 100-41-4 | Ethylbenzene | 50 | 49.2 | 98 | 77-119 |
| 1634-04-4 | Methyl Tert Butyl Ether | 50 | 52.8 | 106 | 72-125 |
| 108-88-3 | Toluene | 50 | 53.6 | 107 | 77-122 |
| 1330-20-7 | Xylene (total) | 150 | 145 | 97 | 78-121 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 101% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 99% | 70-127% |
| 2037-26-5 | Toluene-D8 | 102% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 92% | 76-118% |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB4897
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB4897-5MS | S159415.D | 20 | 04/26/12 | NT | n/a | n/a | VS6530 |
| JB4897-5MSD | S159416.D | 20 | 04/26/12 | NT | n/a | n/a | VS6530 |
| JB4897-5 | S159413.D | 20 | 04/26/12 | NT | n/a | n/a | VS6530 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB4897-2, JB4897-3, JB4897-4, JB4897-5

| CAS No. | Compound | JB4897-5 ug/l | Q | Spike ug/l | MS ug/l | MS % | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 1000 | 930 | 93 | 924 | 92 | 1 | 40-139/12 |
| 100-41-4 | Ethylbenzene | ND | | 1000 | 917 | 92 | 920 | 92 | 0 | 40-140/12 |
| 1634-04-4 | Methyl Tert Butyl Ether | 1620 | | 1000 | 2390 | 77 | 2380 | 76 | 0 | 54-136/12 |
| 108-88-3 | Toluene | ND | | 1000 | 966 | 97 | 965 | 97 | 0 | 47-140/12 |
| 1330-20-7 | Xylene (total) | ND | | 3000 | 2650 | 88 | 2680 | 89 | 1 | 42-140/12 |

| CAS No. | Surrogate Recoveries | MS | MSD | JB4897-5 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 103% | 101% | 103% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 100% | 100% | 94% | 70-127% |
| 2037-26-5 | Toluene-D8 | 100% | 100% | 101% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 91% | 87% | 98% | 76-118% |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB4897
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB4691-1MS | S159471.D | 10 | 04/27/12 | NT | n/a | n/a | VS6532 |
| JB4691-1MSD | S159472.D | 10 | 04/27/12 | NT | n/a | n/a | VS6532 |
| JB4691-1 | S159468.D | 10 | 04/27/12 | NT | n/a | n/a | VS6532 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB4897-1, JB4897-4, JB4897-5

| CAS No. | Compound | JB4691-1 ug/l | Q | Spike ug/l | MS ug/l | MS % | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 500 | 490 | 98 | 486 | 97 | 1 | 40-139/12 |
| 100-41-4 | Ethylbenzene | 1360 | | 500 | 1710 | 70 | 1700 | 68 | 1 | 40-140/12 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 500 | 517 | 103 | 522 | 104 | 1 | 54-136/12 |
| 108-88-3 | Toluene | 4.3 | | 500 | 519 | 103 | 514 | 102 | 1 | 47-140/12 |
| 1330-20-7 | Xylene (total) | 127 | | 1500 | 1560 | 96 | 1560 | 96 | 0 | 42-140/12 |

| CAS No. | Surrogate Recoveries | MS | MSD | JB4691-1 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 99% | 100% | 99% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 102% | 98% | 91% | 70-127% |
| 2037-26-5 | Toluene-D8 | 98% | 100% | 100% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 91% | 92% | 94% | 76-118% |

# Instrument Performance Check (BFB)



**Job Number:** JB4897
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Sample:** VS6484-BFB
**Lab File ID:** S158196.D
**Instrument ID:** GCMSS
**Injection Date:** 03/28/12
**Injection Time:** 02:40

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 5573 | 22.1 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 12718 | 50.4 | | Pass |
| 95 | Base peak, 100% relative abundance | 25245 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 1782 | 7.06 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 18764 | 74.3 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 1429 | 5.66 | (7.62) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 18119 | 71.8 | (96.6) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 1253 | 4.96 | (6.92) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| VS6484-IC6484 | S158197.D | 03/28/12 | 03:01 | 00:21 | Initial cal 0.5 |
| VS6484-IC6484 | S158198.D | 03/28/12 | 03:23 | 00:43 | Initial cal 1 |
| ZZZZZZ | S158198A.D | 03/28/12 | 03:23 | 00:43 | (unrelated sample) |
| VS6484-IC6484 | S158199.D | 03/28/12 | 03:44 | 01:04 | Initial cal 2 |
| VS6484-IC6484 | S158200.D | 03/28/12 | 04:05 | 01:25 | Initial cal 5 |
| VS6484-IC6484 | S158201.D | 03/28/12 | 04:27 | 01:47 | Initial cal 20 |
| VS6484-ICC6484 | S158202.D | 03/28/12 | 04:48 | 02:08 | Initial cal 50 |
| VS6484-IC6484 | S158203.D | 03/28/12 | 05:09 | 02:29 | Initial cal 100 |
| VS6484-IC6484 | S158204.D | 03/28/12 | 05:31 | 02:51 | Initial cal 200 |
| VS6484-ICV6484 | S158207.D | 03/28/12 | 06:35 | 03:55 | Initial cal verification 50 |
| ZZZZZZ | S158209.D | 03/28/12 | 07:17 | 04:37 | (unrelated sample) |
| VS6484-ICV6484 | S158212.D | 03/28/12 | 09:36 | 06:56 | Initial cal verification 50 |

# Instrument Performance Check (BFB)



**Job Number:** JB4897
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Sample:** VS6530-BFB
**Lab File ID:** S159403.D
**Instrument ID:** GCMSS
**Injection Date:** 04/26/12
**Injection Time:** 13:28



| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 6231 | 20.8 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 14585 | 48.6 | | Pass |
| 95 | Base peak, 100% relative abundance | 29984 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 2030 | 6.77 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 23760 | 79.2 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 1743 | 5.81 | (7.34) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 23274 | 77.6 | (98.0) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 1580 | 5.27 | (6.79) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| VS6530-CC6484 | S159405.D | 04/26/12 | 14:31 | 01:03 | Continuing cal 20 |
| VS6530-MB1 | S159407.D | 04/26/12 | 15:14 | 01:46 | Method Blank |
| VS6530-BS | S159408.D | 04/26/12 | 16:08 | 02:40 | Blank Spike |
| ZZZZZZ | S159409.D | 04/26/12 | 16:43 | 03:15 | (unrelated sample) |
| ZZZZZZ | S159410.D | 04/26/12 | 17:04 | 03:36 | (unrelated sample) |
| ZZZZZZ | S159411.D | 04/26/12 | 17:25 | 03:57 | (unrelated sample) |
| ZZZZZZ | S159412.D | 04/26/12 | 17:47 | 04:19 | (unrelated sample) |
| JB4897-5 | S159413.D | 04/26/12 | 18:08 | 04:40 | 137675-OFFSITE-INFLUENT |
| JB4897-4 | S159414.D | 04/26/12 | 18:30 | 05:02 | 137675-OFFSITE-MID1 |
| JB4897-5MS | S159415.D | 04/26/12 | 18:51 | 05:23 | Matrix Spike |
| JB4897-5MSD | S159416.D | 04/26/12 | 19:12 | 05:44 | Matrix Spike Duplicate |
| JB4897-2 | S159419.D | 04/26/12 | 20:17 | 06:49 | 137675-OFFSITE-MID3 |
| JB4897-3 | S159420.D | 04/26/12 | 20:38 | 07:10 | 137675-OFFSITE-MID2 |
| ZZZZZZ | S159421.D | 04/26/12 | 21:00 | 07:32 | (unrelated sample) |
| ZZZZZZ | S159422.D | 04/26/12 | 21:21 | 07:53 | (unrelated sample) |
| ZZZZZZ | S159423.D | 04/26/12 | 21:42 | 08:14 | (unrelated sample) |
| ZZZZZZ | S159424.D | 04/26/12 | 22:04 | 08:36 | (unrelated sample) |
| ZZZZZZ | S159425.D | 04/26/12 | 22:25 | 08:57 | (unrelated sample) |
| ZZZZZZ | S159426.D | 04/26/12 | 22:47 | 09:19 | (unrelated sample) |
| ZZZZZZ | S159427.D | 04/26/12 | 23:08 | 09:40 | (unrelated sample) |
| ZZZZZZ | S159428.D | 04/26/12 | 23:29 | 10:01 | (unrelated sample) |
| ZZZZZZ | S159429.D | 04/26/12 | 23:51 | 10:23 | (unrelated sample) |
| ZZZZZZ | S159430.D | 04/27/12 | 00:12 | 10:44 | (unrelated sample) |
| ZZZZZZ | S159431.D | 04/27/12 | 00:34 | 11:06 | (unrelated sample) |

# Instrument Performance Check (BFB)



**Job Number:** JB4897
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Sample:** VS6532-BFB
**Lab File ID:** S159458.D
**Instrument ID:** GCMSS
**Injection Date:** 04/27/12
**Injection Time:** 12:17

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 5900 | 20.5 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 13864 | 48.1 | | Pass |
| 95 | Base peak, 100% relative abundance | 28800 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 1949 | 6.77 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 23477 | 81.5 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 1722 | 5.98 | (7.33) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 23010 | 79.9 | (98.0) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 1553 | 5.39 | (6.75) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| VS6532-CC6484 | S159459.D | 04/27/12 | 12:38 | 00:21 | Continuing cal 20 |
| VS6532-MB1 | S159460.D | 04/27/12 | 13:45 | 01:28 | Method Blank |
| VS6532-BS | S159461.D | 04/27/12 | 14:06 | 01:49 | Blank Spike |
| ZZZZZZ | S159463.D | 04/27/12 | 15:05 | 02:48 | (unrelated sample) |
| ZZZZZZ | S159464.D | 04/27/12 | 15:27 | 03:10 | (unrelated sample) |
| ZZZZZZ | S159465.D | 04/27/12 | 15:48 | 03:31 | (unrelated sample) |
| JB4897-4 | S159466.D | 04/27/12 | 16:09 | 03:52 | 137675-OFFSITE-MID1 |
| JB4897-1 | S159467.D | 04/27/12 | 16:31 | 04:14 | 137675-OFFSITE-EFFLUENT |
| JB4691-1 | S159468.D | 04/27/12 | 16:55 | 04:38 | (used for QC only; not part of job JB4897) |
| ZZZZZZ | S159469.D | 04/27/12 | 17:17 | 05:00 | (unrelated sample) |
| JB4897-5 | S159470.D | 04/27/12 | 17:38 | 05:21 | 137675-OFFSITE-INFLUENT |
| JB4691-1MS | S159471.D | 04/27/12 | 18:00 | 05:43 | Matrix Spike |
| JB4691-1MSD | S159472.D | 04/27/12 | 18:21 | 06:04 | Matrix Spike Duplicate |
| ZZZZZZ | S159474.D | 04/27/12 | 19:04 | 06:47 | (unrelated sample) |
| ZZZZZZ | S159476.D | 04/27/12 | 19:47 | 07:30 | (unrelated sample) |
| ZZZZZZ | S159477.D | 04/27/12 | 20:08 | 07:51 | (unrelated sample) |
| ZZZZZZ | S159478.D | 04/27/12 | 20:29 | 08:12 | (unrelated sample) |
| ZZZZZZ | S159479.D | 04/27/12 | 20:51 | 08:34 | (unrelated sample) |
| ZZZZZZ | S159480.D | 04/27/12 | 21:12 | 08:55 | (unrelated sample) |
| ZZZZZZ | S159481.D | 04/27/12 | 21:33 | 09:16 | (unrelated sample) |
| ZZZZZZ | S159482.D | 04/27/12 | 21:55 | 09:38 | (unrelated sample) |
| ZZZZZZ | S159483.D | 04/27/12 | 22:16 | 09:59 | (unrelated sample) |

# Volatile Surrogate Recovery Summary



**Job Number:** JB4897
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Method:** SW846 8260B **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 | S2 | S3 | S4 |
|---|---|---|---|---|---|
| JB4897-1 | S159467.D | 102.0 | 94.0 | 101.0 | 99.0 |
| JB4897-2 | S159419.D | 102.0 | 94.0 | 101.0 | 96.0 |
| JB4897-3 | S159420.D | 103.0 | 94.0 | 100.0 | 99.0 |
| JB4897-4 | S159466.D | 100.0 | 92.0 | 102.0 | 97.0 |
| JB4897-4 | S159414.D | 103.0 | 94.0 | 101.0 | 98.0 |
| JB4897-5 | S159470.D | 99.0 | 93.0 | 101.0 | 103.0 |
| JB4897-5 | S159413.D | 103.0 | 94.0 | 101.0 | 98.0 |
| JB4691-1MS | S159471.D | 99.0 | 102.0 | 98.0 | 91.0 |
| JB4691-1MSD | S159472.D | 100.0 | 98.0 | 100.0 | 92.0 |
| JB4897-5MS | S159415.D | 103.0 | 100.0 | 100.0 | 91.0 |
| JB4897-5MSD | S159416.D | 101.0 | 100.0 | 100.0 | 87.0 |
| VS6530-BS | S159408.D | 102.0 | 99.0 | 100.0 | 92.0 |
| VS6530-MB1 | S159407.D | 103.0 | 94.0 | 101.0 | 97.0 |
| VS6532-BS | S159461.D | 101.0 | 99.0 | 102.0 | 92.0 |
| VS6532-MB1 | S159460.D | 103.0 | 93.0 | 99.0 | 99.0 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = Dibromofluoromethane | 77-120% |
| **S2** = 1,2-Dichloroethane-D4 | 70-127% |
| **S3** = Toluene-D8 | 79-120% |
| **S4** = 4-Bromofluorobenzene | 76-118% |

New Jersey
ACCUTEST LABORATORIES



# GC Volatiles

## QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

# Method Blank Summary



**Job Number:** JB4897
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| GUV3852-MB1 | UV97717.D | 1 | 04/26/12 | DJ | n/a | n/a | GUV3852 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB4897-2

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 88% | 68-114% |

# Method Blank Summary



**Job Number:** JB4897
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| GUV3852-MB2 | UV97724.D | 1 | 04/26/12 | DJ | n/a | n/a | GUV3852 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB4897-1, JB4897-3, JB4897-4, JB4897-5

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 89% | 68-114% |

# Blank Spike Summary



**Job Number:** JB4897
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| GUV3852-BS | UV97718.D | 1 | 04/26/12 | DJ | n/a | n/a | GUV3852 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB4897-1, JB4897-2, JB4897-3, JB4897-4, JB4897-5

| CAS No. | Compound | Spike mg/l | BSP mg/l | BSP % | Limits |
|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 8 | 8.67 | 108 | 72-125 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 114% | 68-114% |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB4897
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB4897-2MS | UV97721.D | 1 | 04/26/12 | DJ | n/a | n/a | GUV3852 |
| JB4897-2MSD | UV97722.D | 1 | 04/26/12 | DJ | n/a | n/a | GUV3852 |
| JB4897-2 | UV97719.D | 1 | 04/26/12 | DJ | n/a | n/a | GUV3852 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB4897-1, JB4897-2, JB4897-3, JB4897-4, JB4897-5

| CAS No. | Compound | JB4897-2 mg/l | Q | Spike mg/l | MS mg/l | MS % | MSD mg/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | | 8 | 8.70 | 109 | 8.73 | 109 | 0 | 46-131/20 |

| CAS No. | Surrogate Recoveries | MS | MSD | JB4897-2 | Limits |
|---|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 108% | 106% | 87% | 68-114% |

# Volatile Surrogate Recovery Summary



**Job Number:** JB4897
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Method:** SW846 8015C **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 [a] |
|---|---|---|
| JB4897-1 | UV97725.D | 86.0 |
| JB4897-2 | UV97719.D | 87.0 |
| JB4897-3 | UV97726.D | 88.0 |
| JB4897-4 | UV97727.D | 87.0 |
| JB4897-5 | UV97728.D | 87.0 |
| GUV3852-BS | UV97718.D | 114.0 |
| GUV3852-MB1 | UV97717.D | 88.0 |
| GUV3852-MB2 | UV97724.D | 89.0 |
| JB4897-2MS | UV97721.D | 108.0 |
| JB4897-2MSD | UV97722.D | 106.0 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = aaa-Trifluorotoluene | 68-114% |

(a) Recovery from GC signal #1

New Jersey
ACCUTEST LABORATORIES

# GC Semi-volatiles

## QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

# Method Blank Summary



**Job Number:** JB4897
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP56566-MB1 | 2Y44435.D | 1 | 04/27/12 | CS | 04/26/12 | OP56566 | G2Y1829 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB4897-1, JB4897-2, JB4897-3, JB4897-4, JB4897-5

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 84-15-1 | o-Terphenyl | 74% | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 72% | 32-138% |
| 438-22-2 | 5a-Androstane | 78% | 31-136% |

# Blank Spike Summary



**Job Number:** JB4897
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP56566-BS1 | 2Y44436.D | 1 | 04/27/12 | CS | 04/26/12 | OP56566 | G2Y1829 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB4897-1, JB4897-2, JB4897-3, JB4897-4, JB4897-5

| CAS No. | Compound | Spike mg/l | BSP mg/l | BSP % | Limits |
|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | 1 | 0.686 | 69 | 15-111 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 84-15-1 | o-Terphenyl | 83% | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 73% | 32-138% |
| 438-22-2 | 5a-Androstane | 87% | 31-136% |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB4897
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP56566-MS | 2Y44446.D | 1 | 04/27/12 | CS | 04/26/12 | OP56566 | G2Y1829 |
| OP56566-MSD | 2Y44447.D | 1 | 04/27/12 | CS | 04/26/12 | OP56566 | G2Y1829 |
| JB4897-1 | 2Y44437.D | 1 | 04/27/12 | CS | 04/26/12 | OP56566 | G2Y1829 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB4897-1, JB4897-2, JB4897-3, JB4897-4, JB4897-5

| CAS No. | Compound | JB4897-1 mg/l | Q | Spike mg/l | MS mg/l | MS % | MSD mg/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | | 2.22 | 1.63 | 73 | 1.72 | 77 | 5 | 23-160/31 |

| CAS No. | Surrogate Recoveries | MS | MSD | JB4897-1 | Limits |
|---|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 82% | 83% | 78% | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 72% | 72% | 71% | 32-138% |
| 438-22-2 | 5a-Androstane | 85% | 85% | 81% | 31-136% |

# Semivolatile Surrogate Recovery Summary



**Job Number:** JB4897
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Method:** SW846 8015C **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 [a] | S2 [a] | S3 [a] |
|---|---|---|---|---|
| JB4897-1 | 2Y44437.D | 78.0 | 71.0 | 81.0 |
| JB4897-2 | 2Y44438.D | 78.0 | 70.0 | 81.0 |
| JB4897-3 | 2Y44439.D | 75.0 | 70.0 | 78.0 |
| JB4897-4 | 2Y44440.D | 86.0 | 75.0 | 86.0 |
| JB4897-5 | 2Y44441.D | 83.0 | 73.0 | 83.0 |
| OP56566-BS1 | 2Y44436.D | 83.0 | 73.0 | 87.0 |
| OP56566-MB1 | 2Y44435.D | 74.0 | 72.0 | 78.0 |
| OP56566-MS | 2Y44446.D | 82.0 | 72.0 | 85.0 |
| OP56566-MSD | 2Y44447.D | 83.0 | 72.0 | 85.0 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = o-Terphenyl | 36-144% |
| **S2** = Tetracosane-d50 | 32-138% |
| **S3** = 5a-Androstane | 31-136% |

(a) Recovery from GC signal #1

New Jersey
ACCUTEST LABORATORIES

05/17/12

Technical Report for

Shell Oil Products US

URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

INC#97436977

Accutest Job Number: JB6247

Sampling Date: 05/10/12

Report to:

URS Corporation
12420 Milestone Center Drive Suite 150
Germantown, MD 20876
jenna_anthony@urscorp.com; adriane_rogers@urscorp.com

ATTN: Jenna Anthony

Total number of pages in report: **45**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul Ioannidis
Lab Director

Client Service contact: Marty Vitanza 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.



Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

# Table of Contents

-1-

**Section 1: Sample Summary** ..... **3**
**Section 2: Case Narrative/Conformance Summary** ..... **4**
**Section 3: Sample Results** ..... **5**
**3.1:** JB6247-1: 137675-OFFSITE-EFFLUENT ..... 6
**3.2:** JB6247-2: 137675-OFFSITE-MID3 ..... 9
**3.3:** JB6247-3: 137675-OFFSITE-MID2 ..... 12
**3.4:** JB6247-4: 137675-OFFSITE-MID1 ..... 15
**3.5:** JB6247-5: 137675-OFFSITE-INFLUENT ..... 18
**Section 4: Misc. Forms** ..... **21**
**4.1:** Chain of Custody ..... 22
**Section 5: GC/MS Volatiles - QC Data Summaries** ..... **24**
**5.1:** Method Blank Summary ..... 25
**5.2:** Blank Spike Summary ..... 27
**5.3:** Matrix Spike/Matrix Spike Duplicate Summary ..... 29
**5.4:** Instrument Performance Checks (BFB) ..... 31
**5.5:** Surrogate Recovery Summaries ..... 34
**Section 6: GC Volatiles - QC Data Summaries** ..... **35**
**6.1:** Method Blank Summary ..... 36
**6.2:** Blank Spike Summary ..... 38
**6.3:** Matrix Spike/Matrix Spike Duplicate Summary ..... 39
**6.4:** Surrogate Recovery Summaries ..... 40
**Section 7: GC Semi-volatiles - QC Data Summaries** ..... **41**
**7.1:** Method Blank Summary ..... 42
**7.2:** Blank Spike Summary ..... 43
**7.3:** Matrix Spike/Matrix Spike Duplicate Summary ..... 44
**7.4:** Surrogate Recovery Summaries ..... 45

Accutest Laboratories

# Sample Summary

Shell Oil Products US

**Job No:** JB6247

URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD
Project No: INC#97436977

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| JB6247-1 | 05/10/12 | 08:00 | RS | 05/11/12 | AQ | Effluent | 137675-OFFSITE-EFFLUENT |
| JB6247-2 | 05/10/12 | 08:10 | RS | 05/11/12 | AQ | Ground Water | 137675-OFFSITE-MID3 |
| JB6247-3 | 05/10/12 | 08:20 | RS | 05/11/12 | AQ | Ground Water | 137675-OFFSITE-MID2 |
| JB6247-4 | 05/10/12 | 08:30 | RS | 05/11/12 | AQ | Ground Water | 137675-OFFSITE-MID1 |
| JB6247-5 | 05/10/12 | 08:40 | RS | 05/11/12 | AQ | Influent | 137675-OFFSITE-INFLUENT |

# CASE NARRATIVE / CONFORMANCE SUMMARY

| | | | |
|---|---|---|---|
| **Client:** | Shell Oil Products US | **Job No** | JB6247 |
| **Site:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Sprin | **Report Date** | 5/17/2012 2:19:37 PM |

On 05/11/2012, 5 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 2 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB6247 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

## Volatiles by GCMS By Method SW846 8260B

**Matrix:** AQ **Batch ID:** VC6195

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB6247-5MS, JB6247-5MSD were used as the QC samples indicated.

**Matrix:** AQ **Batch ID:** VC6196

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB6191-1MS, JB6191-1MSD were used as the QC samples indicated.

## Volatiles by GC By Method SW846 8015C

**Matrix:** AQ **Batch ID:** GUV3871

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB6247-2MS, JB6247-2MSD were used as the QC samples indicated.

## Extractables by GC By Method SW846 8015C

**Matrix:** AQ **Batch ID:** OP56965

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB6247-1MS, JB6247-1MSD were used as the QC samples indicated.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

New Jersey

ACCUTEST LABORATORIES



## Sample Results

Report of Analysis

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-EFFLUENT | | |
| **Lab Sample ID:** | JB6247-1 | **Date Sampled:** | 05/10/12 |
| **Matrix:** | AQ - Effluent | **Date Received:** | 05/11/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | C171251.D | 1 | 05/11/12 | MAH | n/a | n/a | VC6195 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**Purgeable Aromatics, MTBE**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 0.71 | 1.0 | 0.18 | ug/l | J |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 83% | | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 77% | | 70-127% |
| 2037-26-5 | Toluene-D8 | 98% | | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 93% | | 76-118% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-EFFLUENT | | |
| **Lab Sample ID:** | JB6247-1 | **Date Sampled:** | 05/10/12 |
| **Matrix:** | AQ - Effluent | **Date Received:** | 05/11/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV98218.D | 1 | 05/15/12 | XPL | n/a | n/a | GUV3871 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 85% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-EFFLUENT | | |
| **Lab Sample ID:** | JB6247-1 | **Date Sampled:** | 05/10/12 |
| **Matrix:** | AQ - Effluent | **Date Received:** | 05/11/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 5Y2894.D | 1 | 05/15/12 | CS | 05/14/12 | OP56965 | G5Y97 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 930 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.11 | 0.0038 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 64% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 58% | | 32-138% |
| 438-22-2 | 5a-Androstane | 78% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-MID3 | | |
| **Lab Sample ID:** | JB6247-2 | **Date Sampled:** | 05/10/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/11/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | C171252.D | 1 | 05/11/12 | MAH | n/a | n/a | VC6195 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**Purgeable Aromatics, MTBE**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.18 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 81% | | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 73% | | 70-127% |
| 2037-26-5 | Toluene-D8 | 99% | | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 91% | | 76-118% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-MID3 | | |
| **Lab Sample ID:** | JB6247-2 | **Date Sampled:** | 05/10/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/11/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV98209.D | 1 | 05/15/12 | XPL | n/a | n/a | GUV3871 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 86% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-MID3 | | |
| **Lab Sample ID:** | JB6247-2 | **Date Sampled:** | 05/10/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/11/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 5Y2895.D | 1 | 05/15/12 | CS | 05/14/12 | OP56965 | G5Y97 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 930 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.11 | 0.0038 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 77% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 69% | | 32-138% |
| 438-22-2 | 5a-Androstane | 89% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-MID2 | | |
| **Lab Sample ID:** | JB6247-3 | **Date Sampled:** | 05/10/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/11/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | C171253.D | 1 | 05/11/12 | MAH | n/a | n/a | VC6195 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**Purgeable Aromatics, MTBE**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 11.3 | 1.0 | 0.18 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 81% | | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 74% | | 70-127% |
| 2037-26-5 | Toluene-D8 | 98% | | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 91% | | 76-118% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-MID2 | | |
| **Lab Sample ID:** | JB6247-3 | **Date Sampled:** | 05/10/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/11/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV98210.D | 1 | 05/15/12 | XPL | n/a | n/a | GUV3871 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 85% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-MID2 | | |
| **Lab Sample ID:** | JB6247-3 | **Date Sampled:** | 05/10/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/11/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 5Y2896.D | 1 | 05/15/12 | CS | 05/14/12 | OP56965 | G5Y97 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 890 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.11 | 0.0039 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 82% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 73% | | 32-138% |
| 438-22-2 | 5a-Androstane | 102% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-MID1 | | |
| **Lab Sample ID:** | JB6247-4 | **Date Sampled:** | 05/10/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/11/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | C171254.D | 1 | 05/11/12 | MAH | n/a | n/a | VC6195 |
| Run #2 | C171274.D | 5 | 05/14/12 | MAH | n/a | n/a | VC6196 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**Purgeable Aromatics, MTBE**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 403 [a] | 5.0 | 0.92 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 81% | 87% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 72% | 82% | 70-127% |
| 2037-26-5 | Toluene-D8 | 99% | 100% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 90% | 95% | 76-118% |

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-MID1 | | |
| **Lab Sample ID:** | JB6247-4 | **Date Sampled:** | 05/10/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/11/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV98211.D | 1 | 05/15/12 | XPL | n/a | n/a | GUV3871 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 0.588 | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 85% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-MID1 | | |
| **Lab Sample ID:** | JB6247-4 | **Date Sampled:** | 05/10/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/11/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 5Y2897.D | 1 | 05/15/12 | CS | 05/14/12 | OP56965 | G5Y97 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 920 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.11 | 0.0038 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 80% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 73% | | 32-138% |
| 438-22-2 | 5a-Androstane | 99% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-INFLUENT | | |
| **Lab Sample ID:** | JB6247-5 | **Date Sampled:** | 05/10/12 |
| **Matrix:** | AQ - Influent | **Date Received:** | 05/11/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | C171275.D | 1 | 05/14/12 | MAH | n/a | n/a | VC6196 |
| Run #2 | C171250.D | 5 | 05/11/12 | MAH | n/a | n/a | VC6195 |
| Run #3 | C171276.D | 10 | 05/14/12 | MAH | n/a | n/a | VC6196 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |
| Run #3 | 5.0 ml |

**Purgeable Aromatics, MTBE**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | 2.3 | 1.0 | 0.22 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 1330-20-7 | Xylene (total) | 0.41 | 1.0 | 0.17 | ug/l | J |
| 1634-04-4 | Methyl Tert Butyl Ether | 1510 [a] | 10 | 1.8 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Run# 3 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 84% | 84% | 86% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 75% | 79% | 84% | 70-127% |
| 2037-26-5 | Toluene-D8 | 100% | 99% | 100% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 94% | 95% | 96% | 76-118% |

(a) Result is from Run# 3

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-INFLUENT | | |
| **Lab Sample ID:** | JB6247-5 | **Date Sampled:** | 05/10/12 |
| **Matrix:** | AQ - Influent | **Date Received:** | 05/11/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV98212.D | 1 | 05/15/12 | XPL | n/a | n/a | GUV3871 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 1.93 | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 85% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-INFLUENT | | |
| **Lab Sample ID:** | JB6247-5 | **Date Sampled:** | 05/10/12 |
| **Matrix:** | AQ - Influent | **Date Received:** | 05/11/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 5Y2898.D | 1 | 05/15/12 | CS | 05/14/12 | OP56965 | G5Y97 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 915 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.11 | 0.0038 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 83% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 71% | | 32-138% |
| 438-22-2 | 5a-Androstane | 99% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey

4

# Misc. Forms

## Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

LAB (LOCATION) GW EFF

☑ ACCUTEST ( )
☐ CALSCIENCE ( )
☐ TESTAMERICA ( )
☐ Other ( )

Lab Vendor # 1813640 (Accutest)

# Shell Oil Products Chain Of Custody Record

JB6247

URS

**Please Check Appropriate Box:**

☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

**Print Bill To Contact Name:** Adriane Rogers

PO #

INCIDENT # (ENV SERVICES): 9 7 4 3 6 9 7 7

SAP #: 1 3 7 6 7 5

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 5-10-12

Page 1 of 1

SAMPLING COMPANY: URS CORPORATION

LOG CODE:

ADDRESS: 12420 Milestone Center Drive Suite 150, Germantown, MD 20876

PROJECT CONTACT (Hardcopy or PDF Report to): Adriane Rogers

TELEPHONE: 301-820-3000 FAX: 301-820-3409 Bill To Contact E-MAIL: adriane.rogers@urs.com

SITE ADDRESS: Street and City: 15541 New Hampshire Avenue, Silver Spring State: MD GLOBAL ID NO.:

EDF DELIVERABLE TO (Name, Company, Office Location): Adriane Rogers PHONE NO.: 301-820-3241 E-MAIL: adriane.rogers@urs.com CONSULTANT PROJECT NO.: 137675

SAMPLER NAME(S) (Print): Roderick Sample

LAB USE ONLY

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

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☐ LEVEL 4 ☐ OTHER (SPECIFY)

TEMPERATURE ON RECEIPT C°: Cooler #1 2°C & Cooler #2 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES:
Seal bz intact

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

REQUESTED ANALYSIS

| LAB USE ONLY | Field Sample Identification | SAMPLING DATE | SAMPLING TIME | MATRIX | PRESERVATIVE HCL | HNO3 | H2SO4 | NONE | OTHER | NO. OF CONT. | BTEX, MTBE (8260B) | TPH-DRO (Method 8015) | TPH-GRO (Method 8015) | Container PID Readings or Laboratory Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -1 | 137675 - Offsite - Effluent | 5/10/12 | 800 | GW | x | | | | | 7 | X | X | X | EX81 |
| -2 | 137675 - Offsite - Mid3 | | 810 | GW | x | | | | | 7 | X | X | X | 433 |
| -3 | 137675 - Offsite - Mid2 | | 820 | GW | x | | | | | 7 | X | X | X | |
| -4 | 137675 - Offsite - Mid1 | | 830 | GW | x | | | | | 7 | X | X | X | |
| -5 | 137675 - Offsite - Influent | | 840 | GW | x | | | | | 7 | X | X | X | |

UNIT COST | NON-UNIT COST

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

ALL SAMPLES RECEIVED RESERVED AS APPLICABLE

| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
|---|---|---|---|
| | Fed X 8896 7737 5483 | | |
| Fed X | | 5/10/12 | 1005 |
| | | | |

05/2/06 Revision

JB6247: Chain of Custody
Page 1 of 2

# Accutest Laboratories Sample Receipt Summary

**Accutest Job Number:** JB6247 **Client:** **Project:**

**Date / Time Received:** 5/11/2012 **Delivery Method:** **Airbill #'s:**

**Cooler Temps (Initial/Adjusted):** #1: (2/2); 0

| Cooler Security | Y | or | N |
|---|---|---|---|
| 1. Custody Seals Present: | ☑ | | ☐ |
| 2. Custody Seals Intact: | ☑ | | ☐ |
| 3. COC Present: | ☑ | | ☐ |
| 4. Smpl Dates/Time OK | ☑ | | ☐ |

| Cooler Temperature | Y | or | N |
|---|---|---|---|
| 1. Temp criteria achieved: | ☑ | | ☐ |
| 2. Cooler temp verification: | Bar Therm | | |
| 3. Cooler media: | Ice (Bag) | | |
| 4. No. Coolers: | 1 | | |

| Quality Control Preservation | Y | or | N | N/A |
|---|---|---|---|---|
| 1. Trip Blank present / cooler: | ☐ | | ☑ | ☐ |
| 2. Trip Blank listed on COC: | ☐ | | ☑ | ☐ |
| 3. Samples preserved properly: | ☑ | | ☐ | |
| 4. VOCs headspace free: | ☑ | | ☐ | ☐ |

| Sample Integrity - Documentation | Y | or | N |
|---|---|---|---|
| 1. Sample labels present on bottles: | ☑ | | ☐ |
| 2. Container labeling complete: | ☑ | | ☐ |
| 3. Sample container label / COC agree: | ☑ | | ☐ |

| Sample Integrity - Condition | Y | or | N |
|---|---|---|---|
| 1. Sample recvd within HT: | ☑ | | ☐ |
| 2. All containers accounted for: | ☑ | | ☐ |
| 3. Condition of sample: | Intact | | |

| Sample Integrity - Instructions | Y | or | N | N/A |
|---|---|---|---|---|
| 1. Analysis requested is clear: | ☑ | | ☐ | |
| 2. Bottles received for unspecified tests | ☐ | | ☑ | |
| 3. Sufficient volume recvd for analysis: | ☑ | | ☐ | |
| 4. Compositing instructions clear: | ☐ | | ☐ | ☑ |
| 5. Filtering instructions clear: | ☐ | | ☐ | ☑ |

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

**JB6247: Chain of Custody**
**Page 2 of 2**

New Jersey

ACCUTEST LABORATORIES



# GC/MS Volatiles

## QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

# Method Blank Summary



**Job Number:** JB6247
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VC6195-MB | C171245.D | 1 | 05/11/12 | MAH | n/a | n/a | VC6195 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB6247-1, JB6247-2, JB6247-3, JB6247-4, JB6247-5

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.18 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 91% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 93% | 70-127% |
| 2037-26-5 | Toluene-D8 | 101% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 102% | 76-118% |

# Method Blank Summary



**Job Number:** JB6247
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VC6196-MB | C171266.D | 1 | 05/14/12 | MAH | n/a | n/a | VC6196 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB6247-4, JB6247-5

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.18 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 88% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 86% | 70-127% |
| 2037-26-5 | Toluene-D8 | 101% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 95% | 76-118% |

# Blank Spike Summary



**Job Number:** JB6247
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VC6195-BS | C171246.D | 1 | 05/11/12 | MAH | n/a | n/a | VC6195 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB6247-1, JB6247-2, JB6247-3, JB6247-4, JB6247-5

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | 50 | 52.8 | 106 | 76-119 |
| 100-41-4 | Ethylbenzene | 50 | 53.0 | 106 | 77-119 |
| 1634-04-4 | Methyl Tert Butyl Ether | 50 | 90.1 | 90 | 72-125 |
| 108-88-3 | Toluene | 50 | 53.9 | 108 | 77-122 |
| 1330-20-7 | Xylene (total) | 150 | 163 | 109 | 78-121 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 90% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 86% | 70-127% |
| 2037-26-5 | Toluene-D8 | 101% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | 76-118% |

# Blank Spike Summary



**Job Number:** JB6247
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VC6196-BS | C171267.D | 1 | 05/14/12 | MAH | n/a | n/a | VC6196 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB6247-4, JB6247-5

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | 50 | 45.0 | 90 | 76-119 |
| 100-41-4 | Ethylbenzene | 50 | 46.4 | 93 | 77-119 |
| 1634-04-4 | Methyl Tert Butyl Ether | 50 | 83.1 | 83 | 72-125 |
| 108-88-3 | Toluene | 50 | 48.8 | 98 | 77-122 |
| 1330-20-7 | Xylene (total) | 150 | 144 | 96 | 78-121 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 90% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 88% | 70-127% |
| 2037-26-5 | Toluene-D8 | 101% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 94% | 76-118% |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB6247
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB6247-5MS | C171247.D | 5 | 05/11/12 | MAH | n/a | n/a | VC6195 |
| JB6247-5MSD | C171248.D | 5 | 05/11/12 | MAH | n/a | n/a | VC6195 |
| JB6247-5 | C171250.D | 5 | 05/11/12 | MAH | n/a | n/a | VC6195 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB6247-1, JB6247-2, JB6247-3, JB6247-4, JB6247-5

| CAS No. | Compound | JB6247-5 ug/l | Q | Spike ug/l | MS ug/l | MS % | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | 1.9 | J | 250 | 251 | 100 | 250 | 99 | 0 | 40-139/12 |
| 100-41-4 | Ethylbenzene | ND | | 250 | 257 | 103 | 261 | 104 | 2 | 40-140/12 |
| 1634-04-4 | Methyl Tert Butyl Ether | 1330 | E | 250 | 1550 | 88 | 1440 | 44* [a] | 7 | 54-136/12 |
| 108-88-3 | Toluene | ND | | 250 | 265 | 106 | 268 | 107 | 1 | 47-140/12 |
| 1330-20-7 | Xylene (total) | ND | | 750 | 798 | 106 | 819 | 109 | 3 | 42-140/12 |

| CAS No. | Surrogate Recoveries | MS | MSD | JB6247-5 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 88% | 86% | 84% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 86% | 79% | 79% | 70-127% |
| 2037-26-5 | Toluene-D8 | 101% | 100% | 99% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | 96% | 95% | 76-118% |

(a) Outside control limits due to high level in sample relative to spike amount.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB6247
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB6191-1MS | C171271.D | 1 | 05/14/12 | MAH | n/a | n/a | VC6196 |
| JB6191-1MSD | C171272.D | 1 | 05/14/12 | MAH | n/a | n/a | VC6196 |
| JB6191-1 | C171269.D | 1 | 05/14/12 | MAH | n/a | n/a | VC6196 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB6247-4, JB6247-5

| CAS No. | Compound | JB6191-1 ug/l | Q | Spike ug/l | MS ug/l | MS % | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 50 | 53.3 | 107 | 51.2 | 102 | 4 | 40-139/12 |
| 100-41-4 | Ethylbenzene | 0.35 | | 50 | 56.5 | 112 | 55.0 | 109 | 3 | 40-140/12 |
| 1634-04-4 | Methyl Tert Butyl Ether | 10.4 | | 50 | 56.4 | 92 | 55.9 | 91 | 1 | 54-136/12 |
| 108-88-3 | Toluene | ND | | 50 | 59.1 | 118 | 57.2 | 114 | 3 | 47-140/12 |
| 1330-20-7 | Xylene (total) | 8.7 | | 150 | 182 | 116 | 177 | 112 | 3 | 42-140/12 |

| CAS No. | Surrogate Recoveries | MS | MSD | JB6191-1 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 90% | 89% | 87% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 87% | 85% | 86% | 70-127% |
| 2037-26-5 | Toluene-D8 | 102% | 102% | 101% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 95% | 94% | 96% | 76-118% |

# Instrument Performance Check (BFB)



**Job Number:** JB6247
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Sample:** VC6194-BFB
**Lab File ID:** C171224.D
**Instrument ID:** GCMSC
**Injection Date:** 05/10/12
**Injection Time:** 20:00

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 21312 | 17.9 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 54632 | 45.9 | | Pass |
| 95 | Base peak, 100% relative abundance | 119027 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 8060 | 6.77 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 84733 | 71.2 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 6876 | 5.78 | (8.11) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 82709 | 69.5 | (97.6) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 5446 | 4.58 | (6.58) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| VC6194-IC6194 | C171225.D | 05/10/12 | 20:26 | 00:26 | Initial cal 0.5 |
| VC6194-IC6194 | C171226.D | 05/10/12 | 20:53 | 00:53 | Initial cal 1 |
| VC6194-IC6194 | C171227.D | 05/10/12 | 21:19 | 01:19 | Initial cal 2 |
| VC6194-IC6194 | C171228.D | 05/10/12 | 21:45 | 01:45 | Initial cal 5 |
| VC6194-IC6194 | C171229.D | 05/10/12 | 22:12 | 02:12 | Initial cal 10 |
| VC6194-IC6194 | C171230.D | 05/10/12 | 22:38 | 02:38 | Initial cal 20 |
| VC6194-ICC6194 | C171231.D | 05/10/12 | 23:05 | 03:05 | Initial cal 50 |
| VC6194-IC6194 | C171232.D | 05/10/12 | 23:31 | 03:31 | Initial cal 100 |
| VC6194-IC6194 | C171233.D | 05/10/12 | 23:58 | 03:58 | Initial cal 200 |

# Instrument Performance Check (BFB)



**Job Number:** JB6247
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Sample:** VC6195-BFB
**Lab File ID:** C171240.D
**Instrument ID:** GCMSC
**Injection Date:** 05/11/12
**Injection Time:** 12:12



| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 15977 | 17.9 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 40872 | 45.7 | | Pass |
| 95 | Base peak, 100% relative abundance | 89360 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 5798 | 6.49 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 66112 | 74.0 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 3958 | 4.43 | (5.99) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 65197 | 73.0 | (98.6) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 4207 | 4.71 | (6.45) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| VC6195-ICV6194 | C171241.D | 05/11/12 | 14:55 | 02:43 | Initial cal verification 50 |
| VC6195-CC6194 | C171243.D | 05/11/12 | 16:36 | 04:24 | Continuing cal 20 |
| VC6195-MB | C171245.D | 05/11/12 | 17:31 | 05:19 | Method Blank |
| VC6195-BS | C171246.D | 05/11/12 | 17:58 | 05:46 | Blank Spike |
| JB6247-5MS | C171247.D | 05/11/12 | 18:24 | 06:12 | Matrix Spike |
| JB6247-5MSD | C171248.D | 05/11/12 | 18:51 | 06:39 | Matrix Spike Duplicate |
| JB6247-5 | C171250.D | 05/11/12 | 19:43 | 07:31 | 137675-OFFSITE-INFLUENT |
| JB6247-1 | C171251.D | 05/11/12 | 20:10 | 07:58 | 137675-OFFSITE-EFFLUENT |
| JB6247-2 | C171252.D | 05/11/12 | 20:36 | 08:24 | 137675-OFFSITE-MID3 |
| JB6247-3 | C171253.D | 05/11/12 | 21:03 | 08:51 | 137675-OFFSITE-MID2 |
| JB6247-4 | C171254.D | 05/11/12 | 21:29 | 09:17 | 137675-OFFSITE-MID1 |
| ZZZZZZ | C171256.D | 05/11/12 | 22:22 | 10:10 | (unrelated sample) |

# Instrument Performance Check (BFB)



**Job Number:** JB6247
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Sample:** VC6196-BFB
**Lab File ID:** C171262.D
**Instrument ID:** GCMSC
**Injection Date:** 05/14/12
**Injection Time:** 12:48



| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 19067 | 17.4 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 50189 | 45.8 | | Pass |
| 95 | Base peak, 100% relative abundance | 109632 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 7373 | 6.73 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 85675 | 78.1 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 7309 | 6.67 | (8.53) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 83248 | 75.9 | (97.2) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 5393 | 4.92 | (6.48) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| VC6196-CC6194 | C171264.D | 05/14/12 | 13:55 | 01:07 | Continuing cal 20 |
| VC6196-MB | C171266.D | 05/14/12 | 14:48 | 02:00 | Method Blank |
| VC6196-BS | C171267.D | 05/14/12 | 15:14 | 02:26 | Blank Spike |
| JB6191-1 | C171269.D | 05/14/12 | 16:22 | 03:34 | (used for QC only; not part of job JB6247) |
| JB6191-1MS | C171271.D | 05/14/12 | 17:14 | 04:26 | Matrix Spike |
| JB6191-1MSD | C171272.D | 05/14/12 | 17:41 | 04:53 | Matrix Spike Duplicate |
| JB6247-4 | C171274.D | 05/14/12 | 18:34 | 05:46 | 137675-OFFSITE-MID1 |
| JB6247-5 | C171275.D | 05/14/12 | 19:00 | 06:12 | 137675-OFFSITE-INFLUENT |
| JB6247-5 | C171276.D | 05/14/12 | 19:27 | 06:39 | 137675-OFFSITE-INFLUENT |
| ZZZZZZ | C171277.D | 05/14/12 | 19:53 | 07:05 | (unrelated sample) |
| ZZZZZZ | C171278.D | 05/14/12 | 20:19 | 07:31 | (unrelated sample) |
| ZZZZZZ | C171279.D | 05/14/12 | 20:46 | 07:58 | (unrelated sample) |
| ZZZZZZ | C171282.D | 05/14/12 | 22:05 | 09:17 | (unrelated sample) |
| ZZZZZZ | C171283.D | 05/14/12 | 22:31 | 09:43 | (unrelated sample) |
| ZZZZZZ | C171284.D | 05/14/12 | 22:57 | 10:09 | (unrelated sample) |
| ZZZZZZ | C171285.D | 05/14/12 | 23:24 | 10:36 | (unrelated sample) |
| ZZZZZZ | C171286.D | 05/14/12 | 23:50 | 11:02 | (unrelated sample) |

# Volatile Surrogate Recovery Summary



**Job Number:** JB6247
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Method:** SW846 8260B **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 | S2 | S3 | S4 |
|---|---|---|---|---|---|
| JB6247-1 | C171251.D | 83.0 | 77.0 | 98.0 | 93.0 |
| JB6247-2 | C171252.D | 81.0 | 73.0 | 99.0 | 91.0 |
| JB6247-3 | C171253.D | 81.0 | 74.0 | 98.0 | 91.0 |
| JB6247-4 | C171274.D | 87.0 | 82.0 | 100.0 | 95.0 |
| JB6247-4 | C171254.D | 81.0 | 72.0 | 99.0 | 90.0 |
| JB6247-5 | C171275.D | 84.0 | 75.0 | 100.0 | 94.0 |
| JB6247-5 | C171276.D | 86.0 | 84.0 | 100.0 | 96.0 |
| JB6247-5 | C171250.D | 84.0 | 79.0 | 99.0 | 95.0 |
| JB6191-1MS | C171271.D | 90.0 | 87.0 | 102.0 | 95.0 |
| JB6191-1MSD | C171272.D | 89.0 | 85.0 | 102.0 | 94.0 |
| JB6247-5MS | C171247.D | 88.0 | 86.0 | 101.0 | 97.0 |
| JB6247-5MSD | C171248.D | 86.0 | 79.0 | 100.0 | 96.0 |
| VC6195-BS | C171246.D | 90.0 | 86.0 | 101.0 | 99.0 |
| VC6195-MB | C171245.D | 91.0 | 93.0 | 101.0 | 102.0 |
| VC6196-BS | C171267.D | 90.0 | 88.0 | 101.0 | 94.0 |
| VC6196-MB | C171266.D | 88.0 | 86.0 | 101.0 | 95.0 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = Dibromofluoromethane | 77-120% |
| **S2** = 1,2-Dichloroethane-D4 | 70-127% |
| **S3** = Toluene-D8 | 79-120% |
| **S4** = 4-Bromofluorobenzene | 76-118% |

New Jersey

ACCUTEST LABORATORIES



# GC Volatiles

## QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

# Method Blank Summary



**Job Number:** JB6247
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| GUV3871-MB1 | UV98207.D | 1 | 05/15/12 | XPL | n/a | n/a | GUV3871 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB6247-2, JB6247-3, JB6247-4, JB6247-5

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 79% | 68-114% |

# Method Blank Summary



**Job Number:** JB6247
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| GUV3871-MB2 | UV98217.D | 1 | 05/15/12 | XPL | n/a | n/a | GUV3871 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB6247-1

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 86% | 68-114% |

# Blank Spike Summary



**Job Number:** JB6247
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| GUV3871-BS | UV98215.D | 1 | 05/15/12 | XPL | n/a | n/a | GUV3871 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB6247-1, JB6247-2, JB6247-3, JB6247-4, JB6247-5

| CAS No. | Compound | Spike mg/l | BSP mg/l | BSP % | Limits |
|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 8 | 8.55 | 107 | 72-125 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 113% | 68-114% |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB6247
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB6247-2MS | UV98213.D | 1 | 05/15/12 | XPL | n/a | n/a | GUV3871 |
| JB6247-2MSD | UV98214.D | 1 | 05/15/12 | XPL | n/a | n/a | GUV3871 |
| JB6247-2 | UV98209.D | 1 | 05/15/12 | XPL | n/a | n/a | GUV3871 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB6247-1, JB6247-2, JB6247-3, JB6247-4, JB6247-5

| CAS No. | Compound | JB6247-2 mg/l | Q | Spike mg/l | MS mg/l | MS % | MSD mg/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | | 8 | 8.22 | 103 | 8.16 | 102 | 1 | 46-131/20 |

| CAS No. | Surrogate Recoveries | MS | MSD | JB6247-2 | Limits |
|---|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 102% | 102% | 86% | 68-114% |

# Volatile Surrogate Recovery Summary



**Job Number:** JB6247
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Method:** SW846 8015C **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 [a] |
|---|---|---|
| JB6247-1 | UV98218.D | 85.0 |
| JB6247-2 | UV98209.D | 86.0 |
| JB6247-3 | UV98210.D | 85.0 |
| JB6247-4 | UV98211.D | 85.0 |
| JB6247-5 | UV98212.D | 85.0 |
| GUV3871-BS | UV98215.D | 113.0 |
| GUV3871-MB1 | UV98207.D | 79.0 |
| GUV3871-MB2 | UV98217.D | 86.0 |
| JB6247-2MS | UV98213.D | 102.0 |
| JB6247-2MSD | UV98214.D | 102.0 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = aaa-Trifluorotoluene | 68-114% |

(a) Recovery from GC signal #1

New Jersey
ACCUTEST LABORATORIES



# GC Semi-volatiles

## QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

# Method Blank Summary



**Job Number:** JB6247
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP56965-MB1 | 5Y2890.D | 1 | 05/15/12 | CS | 05/14/12 | OP56965 | G5Y97 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB6247-1, JB6247-2, JB6247-3, JB6247-4, JB6247-5

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 84-15-1 | o-Terphenyl | 72% | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 67% | 32-138% |
| 438-22-2 | 5a-Androstane | 89% | 31-136% |

# Blank Spike Summary



**Job Number:** JB6247
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP56965-BS1 | 5Y2891.D | 1 | 05/15/12 | CS | 05/14/12 | OP56965 | G5Y97 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB6247-1, JB6247-2, JB6247-3, JB6247-4, JB6247-5

| CAS No. | Compound | Spike mg/l | BSP mg/l | BSP % | Limits |
|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | 1 | 0.784 | 78 | 15-111 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 84-15-1 | o-Terphenyl | 92% | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 70% | 32-138% |
| 438-22-2 | 5a-Androstane | 94% | 31-136% |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB6247
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP56965-MS | 5Y2892.D | 1 | 05/15/12 | CS | 05/14/12 | OP56965 | G5Y97 |
| OP56965-MSD | 5Y2893.D | 1 | 05/15/12 | CS | 05/14/12 | OP56965 | G5Y97 |
| JB6247-1 | 5Y2894.D | 1 | 05/15/12 | CS | 05/14/12 | OP56965 | G5Y97 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB6247-1, JB6247-2, JB6247-3, JB6247-4, JB6247-5

| CAS No. | Compound | JB6247-1 mg/l | Q | Spike mg/l | MS mg/l | MS % | MSD mg/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | | 2.15 | 1.91 | 89 | 1.95 | 91 | 2 | 23-160/31 |

| CAS No. | Surrogate Recoveries | MS | MSD | JB6247-1 | Limits |
|---|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 81% | 93% | 64% | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 74% | 74% | 58% | 32-138% |
| 438-22-2 | 5a-Androstane | 82% | 93% | 78% | 31-136% |

# Semivolatile Surrogate Recovery Summary



**Job Number:** JB6247
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Method:** SW846 8015C **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 [a] | S2 [a] | S3 [a] |
|---|---|---|---|---|
| JB6247-1 | 5Y2894.D | 64.0 | 58.0 | 78.0 |
| JB6247-2 | 5Y2895.D | 77.0 | 69.0 | 89.0 |
| JB6247-3 | 5Y2896.D | 82.0 | 73.0 | 102.0 |
| JB6247-4 | 5Y2897.D | 80.0 | 73.0 | 99.0 |
| JB6247-5 | 5Y2898.D | 83.0 | 71.0 | 99.0 |
| OP56965-BS1 | 5Y2891.D | 92.0 | 70.0 | 94.0 |
| OP56965-MB1 | 5Y2890.D | 72.0 | 67.0 | 89.0 |
| OP56965-MS | 5Y2892.D | 81.0 | 74.0 | 82.0 |
| OP56965-MSD | 5Y2893.D | 93.0 | 74.0 | 93.0 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = o-Terphenyl | 36-144% |
| **S2** = Tetracosane-d50 | 32-138% |
| **S3** = 5a-Androstane | 31-136% |

(a) Recovery from GC signal #1

New Jersey
ACCUTEST LABORATORIES

05/30/12

# Technical Report for

Shell Oil Products US

URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

INC#97436977

Accutest Job Number: JB7158

Sampling Date: 05/22/12

Report to:

URS Corporation
12420 Milestone Center Drive Suite 150
Germantown, MD 20876
jenna_anthony@urscorp.com; adriane_rogers@urscorp.com

ATTN: Jenna Anthony

Total number of pages in report: **45**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul Ioannidis
Lab Director

Client Service contact: Marty Vitanza 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.



Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

# Table of Contents

-1-

**Section 1: Sample Summary** ..... **3**
**Section 2: Case Narrative/Conformance Summary** ..... **4**
**Section 3: Sample Results** ..... **5**
**3.1:** JB7158-1: 137675-OFFSITE-EFFLUENT ..... 6
**3.2:** JB7158-2: 137675-OFFSITE-MID3 ..... 9
**3.3:** JB7158-3: 137675-OFFSITE-MID2 ..... 12
**3.4:** JB7158-4: 137675-OFFSITE-MID1 ..... 15
**3.5:** JB7158-5: 137675-OFFSITE-INFLUENT ..... 18
**Section 4: Misc. Forms** ..... **21**
**4.1:** Chain of Custody ..... 22
**Section 5: GC/MS Volatiles - QC Data Summaries** ..... **24**
**5.1:** Method Blank Summary ..... 25
**5.2:** Blank Spike Summary ..... 27
**5.3:** Matrix Spike/Matrix Spike Duplicate Summary ..... 29
**5.4:** Instrument Performance Checks (BFB) ..... 31
**5.5:** Surrogate Recovery Summaries ..... 34
**Section 6: GC Volatiles - QC Data Summaries** ..... **35**
**6.1:** Method Blank Summary ..... 36
**6.2:** Blank Spike Summary ..... 38
**6.3:** Matrix Spike/Matrix Spike Duplicate Summary ..... 39
**6.4:** Surrogate Recovery Summaries ..... 40
**Section 7: GC Semi-volatiles - QC Data Summaries** ..... **41**
**7.1:** Method Blank Summary ..... 42
**7.2:** Blank Spike Summary ..... 43
**7.3:** Matrix Spike/Matrix Spike Duplicate Summary ..... 44
**7.4:** Surrogate Recovery Summaries ..... 45

Accutest Laboratories

# Sample Summary

Shell Oil Products US

**Job No:** JB7158

URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD
Project No: INC#97436977

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| JB7158-1 | 05/22/12 | 11:00 | RS | 05/23/12 | AQ | Effluent | 137675-OFFSITE-EFFLUENT |
| JB7158-2 | 05/22/12 | 11:05 | RS | 05/23/12 | AQ | Ground Water | 137675-OFFSITE-MID3 |
| JB7158-3 | 05/22/12 | 11:10 | RS | 05/23/12 | AQ | Ground Water | 137675-OFFSITE-MID2 |
| JB7158-4 | 05/22/12 | 11:15 | RS | 05/23/12 | AQ | Ground Water | 137675-OFFSITE-MID1 |
| JB7158-5 | 05/22/12 | 11:20 | RS | 05/23/12 | AQ | Influent | 137675-OFFSITE-INFLUENT |

# CASE NARRATIVE / CONFORMANCE SUMMARY

| | | | |
|---|---|---|---|
| **Client:** | Shell Oil Products US | **Job No** | JB7158 |
| **Site:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Sprin | **Report Date** | 5/30/2012 8:41:58 AM |

On 05/23/2012, 5 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 4 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB7158 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

## Volatiles by GCMS By Method SW846 8260B

**Matrix:** AQ **Batch ID:** VC6213

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB7158-5MS, JB7158-5MSD were used as the QC samples indicated.

**Matrix:** AQ **Batch ID:** VC6214

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB7310-1MS, JB7310-1MSD were used as the QC samples indicated.

## Volatiles by GC By Method SW846 8015C

**Matrix:** AQ **Batch ID:** GUV3884

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB7158-2MS, JB7158-2MSD were used as the QC samples indicated.

## Extractables by GC By Method SW846 8015C

**Matrix:** AQ **Batch ID:** OP57236

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB6991-1MS, JB6991-1MSD were used as the QC samples indicated.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

New Jersey

ACCUTEST LABORATORIES



## Sample Results

Report of Analysis

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-EFFLUENT | | |
| **Lab Sample ID:** | JB7158-1 | **Date Sampled:** | 05/22/12 |
| **Matrix:** | AQ - Effluent | **Date Received:** | 05/23/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | C171665.D | 1 | 05/25/12 | MAH | n/a | n/a | VC6213 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**Purgeable Aromatics, MTBE**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 0.52 | 1.0 | 0.18 | ug/l | J |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 95% | | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 95% | | 70-127% |
| 2037-26-5 | Toluene-D8 | 106% | | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 110% | | 76-118% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-EFFLUENT | | |
| **Lab Sample ID:** | JB7158-1 | **Date Sampled:** | 05/22/12 |
| **Matrix:** | AQ - Effluent | **Date Received:** | 05/23/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV98553.D | 1 | 05/25/12 | DJ | n/a | n/a | GUV3884 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 84% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-EFFLUENT | | |
| **Lab Sample ID:** | JB7158-1 | **Date Sampled:** | 05/22/12 |
| **Matrix:** | AQ - Effluent | **Date Received:** | 05/23/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 5Y3139.D | 1 | 05/25/12 | CS | 05/24/12 | OP57236 | G5Y105 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 910 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.11 | 0.0038 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 61% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 74% | | 32-138% |
| 438-22-2 | 5a-Androstane | 84% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-MID3 | | |
| **Lab Sample ID:** | JB7158-2 | **Date Sampled:** | 05/22/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/23/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | C171666.D | 1 | 05/25/12 | MAH | n/a | n/a | VC6213 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**Purgeable Aromatics, MTBE**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.18 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 94% | | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 94% | | 70-127% |
| 2037-26-5 | Toluene-D8 | 105% | | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 109% | | 76-118% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-MID3 | | |
| **Lab Sample ID:** | JB7158-2 | **Date Sampled:** | 05/22/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/23/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV98554.D | 1 | 05/25/12 | DJ | n/a | n/a | GUV3884 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 84% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-MID3 | | |
| **Lab Sample ID:** | JB7158-2 | **Date Sampled:** | 05/22/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/23/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 5Y3140.D | 1 | 05/25/12 | CS | 05/24/12 | OP57236 | G5Y105 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 910 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.11 | 0.0038 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 58% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 71% | | 32-138% |
| 438-22-2 | 5a-Androstane | 78% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-MID2 | | |
| **Lab Sample ID:** | JB7158-3 | **Date Sampled:** | 05/22/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/23/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | C171667.D | 1 | 05/25/12 | MAH | n/a | n/a | VC6213 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**Purgeable Aromatics, MTBE**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 84.3 | 1.0 | 0.18 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 96% | | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 95% | | 70-127% |
| 2037-26-5 | Toluene-D8 | 105% | | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 110% | | 76-118% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-MID2 | | |
| **Lab Sample ID:** | JB7158-3 | **Date Sampled:** | 05/22/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/23/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV98555.D | 1 | 05/25/12 | DJ | n/a | n/a | GUV3884 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 84% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-MID2 | | |
| **Lab Sample ID:** | JB7158-3 | **Date Sampled:** | 05/22/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/23/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 5Y3141.D | 1 | 05/25/12 | CS | 05/24/12 | OP57236 | G5Y105 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 890 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.11 | 0.0039 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 62% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 79% | | 32-138% |
| 438-22-2 | 5a-Androstane | 87% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-MID1 | | |
| **Lab Sample ID:** | JB7158-4 | **Date Sampled:** | 05/22/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/23/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | C171668.D | 1 | 05/25/12 | MAH | n/a | n/a | VC6213 |
| Run #2 | C171669.D | 10 | 05/25/12 | MAH | n/a | n/a | VC6213 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**Purgeable Aromatics, MTBE**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 432 [a] | 10 | 1.8 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 95% | 89% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 95% | 86% | 70-127% |
| 2037-26-5 | Toluene-D8 | 106% | 105% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 108% | 107% | 76-118% |

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-MID1 | | |
| **Lab Sample ID:** | JB7158-4 | **Date Sampled:** | 05/22/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/23/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV98556.D | 1 | 05/25/12 | DJ | n/a | n/a | GUV3884 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 0.570 | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 84% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-MID1 | | |
| **Lab Sample ID:** | JB7158-4 | **Date Sampled:** | 05/22/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/23/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 5Y3142.D | 1 | 05/25/12 | CS | 05/24/12 | OP57236 | G5Y105 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 890 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | 0.114 | 0.11 | 0.0039 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 61% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 72% | | 32-138% |
| 438-22-2 | 5a-Androstane | 85% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-INFLUENT | | |
| **Lab Sample ID:** | JB7158-5 | **Date Sampled:** | 05/22/12 |
| **Matrix:** | AQ - Influent | **Date Received:** | 05/23/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | C171688.D | 2.5 | 05/25/12 | MAH | n/a | n/a | VC6214 |
| Run #2 | C171664.D | 10 | 05/24/12 | MAH | n/a | n/a | VC6213 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**Purgeable Aromatics, MTBE**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | 2.8 | 2.5 | 0.55 | ug/l | |
| 108-88-3 | Toluene | ND | 2.5 | 0.36 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 2.5 | 0.53 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 2.5 | 0.43 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 1910 [a] | 10 | 1.8 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 92% | 91% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 91% | 87% | 70-127% |
| 2037-26-5 | Toluene-D8 | 105% | 105% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 108% | 108% | 76-118% |

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-INFLUENT | | |
| **Lab Sample ID:** | JB7158-5 | **Date Sampled:** | 05/22/12 |
| **Matrix:** | AQ - Influent | **Date Received:** | 05/23/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV98557.D | 1 | 05/25/12 | DJ | n/a | n/a | GUV3884 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 2.37 | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 84% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-INFLUENT | | |
| **Lab Sample ID:** | JB7158-5 | **Date Sampled:** | 05/22/12 |
| **Matrix:** | AQ - Influent | **Date Received:** | 05/23/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 5Y3143.D | 1 | 05/25/12 | CS | 05/24/12 | OP57236 | G5Y105 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 900 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.11 | 0.0039 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 57% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 67% | | 32-138% |
| 438-22-2 | 5a-Androstane | 79% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey
ACCUTEST LABORATORIES



## Misc. Forms

# Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

# Shell Oil Products Chain Of Custody Record

URS

**LAB (LOCATION)**
- [x] ACCUTEST ( )
- [ ] CALSCIENCE ( )
- [ ] TESTAMERICA ( )
- [ ] Other ( )

Lab Vendor # 1813640 (Accutest)

**Please Check Appropriate Box:**
- [x] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [ ] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER

**Print Bill To Contact Name:** Adriane Rogers

**INCIDENT # (ENV SERVICES):** 9 7 4 3 6 9 7 7

[ ] CHECK IF NO INCIDENT # APPLIES

DATE: 5-22-12

Page 1 of 1

**PO #**

**SAP #** 1 3 7 6 7 5

SAMPLING COMPANY: URS CORPORATION

LOG CODE:

SITE ADDRESS: Street and City: 15541 New Hampshire Avenue, Silver Spring

State: MD

GLOBAL ID NO.:

ADDRESS: 12420 Milestone Center Drive Suite 150, Germantown, MD 20876

EDF DELIVERABLE TO (Name, Company, Office Location): Adriane Rogers

PHONE NO.: 301-820-3241

E-MAIL: adriane.rogers@urs.com

CONSULTANT PROJECT NO.: 137675

PROJECT CONTACT (Hardcopy or PDF Report to): Adriane Rogers

TELEPHONE: 301-820-3000

FAX: 301-820-3409

Bill To Contact E-MAIL: adriane.rogers@urs.com

SAMPLER NAME(S) (Print): Roderick Sample

LAB USE ONLY: JB7158

TURNAROUND TIME (CALENDAR DAYS):
- [ ] STANDARD (14 DAY)
- [ ] 5 DAYS
- [x] 3 DAYS
- [ ] 2 DAYS
- [ ] 24 HOURS
- [ ] RESULTS NEEDED ON WEEKEND

- [ ] LA - RWQCB REPORT FORMAT
- [ ] UST AGENCY:

DELIVERABLES:
- [ ] LEVEL 1
- [x] LEVEL 2
- [ ] LEVEL 3
- [ ] LEVEL 4
- [ ] OTHER (SPECIFY)

TEMPERATURE ON RECEIPT C°: Cooler #1 4°C; Cooler #2; Cooler #3

**SPECIAL INSTRUCTIONS OR NOTES :**

ALL SAMPLES RECEIVED IN PRESERVED AS APPLICABLE

- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [ ] RECEIPT VERIFICATION REQUESTED
- [ ] PROVIDE LEDD DISK

**REQUESTED ANALYSIS**

| LAB USE ONLY | Field Sample Identification | SAMPLING DATE | SAMPLING TIME | MATRIX | PRESERVATIVE HCL | HNO3 | H2SO4 | NONE | OTHER | NO. OF CONT. | BTEX, MTBE (8260B) | TPH-DRO (Method 8015) | TPH-GRO (Method 8015) | Container PID Readings or Laboratory Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 137675 - Offsite - Effluent | 5/22/12 | 11:00 | GW | x | | | | | 7 | X | X | X | EV35, 857 |
| 2 | 137675 - Offsite - Mid3 | | 11:05 | GW | x | | | | | 7 | X | X | X | |
| 3 | 137675 - Offsite - Mid2 | | 11:10 | GW | x | | | | | 7 | X | X | X | |
| 4 | 137675 - Offsite - Mid1 | | 11:15 | GW | x | | | | | 7 | X | X | X | |
| 5 | 137675 - Offsite - Influent | | 1120 | GW | x | | | | | 7 | X | X | X | |

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
|---|---|---|---|
| | FED EX | | |
| FED EX 8986 1143 3790 | Mlodzinski | 5/23/12 | 1015 |
| | | | |

05/2/06 Revision

**JB7158: Chain of Custody**
**Page 1 of 2**

# Accutest Laboratories Sample Receipt Summary

**Accutest Job Number:** JB7158 **Client:** **Project:**

**Date / Time Received:** 5/23/2012 **Delivery Method:** **Airbill #'s:**

**Cooler Temps (Initial/Adjusted):** #1: (4/4); 0

| Cooler Security | Y | N | | Y | N |
|---|---|---|---|---|---|
| 1. Custody Seals Present: | ☑ | ☐ | 3. COC Present: | ☑ | ☐ |
| 2. Custody Seals Intact: | ☑ | ☐ | 4. Smpl Dates/Time OK | ☑ | ☐ |

| Cooler Temperature | Y | N |
|---|---|---|
| 1. Temp criteria achieved: | ☑ | ☐ |
| 2. Cooler temp verification: | Bar Therm | |
| 3. Cooler media: | Ice (Bag) | |
| 4. No. Coolers: | 1 | |

| Quality Control Preservation | Y | N | N/A |
|---|---|---|---|
| 1. Trip Blank present / cooler: | ☐ | ☑ | ☐ |
| 2. Trip Blank listed on COC: | ☐ | ☑ | ☐ |
| 3. Samples preserved properly: | ☑ | ☐ | |
| 4. VOCs headspace free: | ☑ | ☐ | ☐ |

| Sample Integrity - Documentation | Y | N |
|---|---|---|
| 1. Sample labels present on bottles: | ☑ | ☐ |
| 2. Container labeling complete: | ☑ | ☐ |
| 3. Sample container label / COC agree: | ☑ | ☐ |

| Sample Integrity - Condition | Y | N |
|---|---|---|
| 1. Sample recvd within HT: | ☑ | ☐ |
| 2. All containers accounted for: | ☑ | ☐ |
| 3. Condition of sample: | Intact | |

| Sample Integrity - Instructions | Y | N | N/A |
|---|---|---|---|
| 1. Analysis requested is clear: | ☑ | ☐ | |
| 2. Bottles received for unspecified tests | ☐ | ☑ | |
| 3. Sufficient volume recvd for analysis: | ☑ | ☐ | |
| 4. Compositing instructions clear: | ☐ | ☐ | ☑ |
| 5. Filtering instructions clear: | ☐ | ☐ | ☑ |

Comments

Accutest Laboratories
V:732.329.0200
2235 US Highway 130
F: 732.329.3499
Dayton, New Jersey
www/accutest.com

**JB7158: Chain of Custody**
**Page 2 of 2**

New Jersey
ACCUTEST LABORATORIES



# GC/MS Volatiles

## QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

# Method Blank Summary



**Job Number:** JB7158
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VC6213-MB | C171659.D | 1 | 05/24/12 | MAH | n/a | n/a | VC6213 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB7158-1, JB7158-2, JB7158-3, JB7158-4, JB7158-5

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.18 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 94% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 92% | 70-127% |
| 2037-26-5 | Toluene-D8 | 105% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 109% | 76-118% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---|---|---|---|---|---|
| | Total TIC, Volatile | | 0 | ug/l | |

# Method Blank Summary



**Job Number:** JB7158
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VC6214-MB | C171685.D | 1 | 05/25/12 | MAH | n/a | n/a | VC6214 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB7158-5

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | 1.0 | 0.22 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.21 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.15 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.17 | ug/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 97% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 97% | 70-127% |
| 2037-26-5 | Toluene-D8 | 105% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 109% | 76-118% |

# Blank Spike Summary



**Job Number:** JB7158
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VC6213-BS | C171660.D | 1 | 05/24/12 | MAH | n/a | n/a | VC6213 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB7158-1, JB7158-2, JB7158-3, JB7158-4, JB7158-5

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | 50 | 49.4 | 99 | 76-119 |
| 100-41-4 | Ethylbenzene | 50 | 49.5 | 99 | 77-119 |
| 1634-04-4 | Methyl Tert Butyl Ether | 50 | 90.1 | 90 | 72-125 |
| 108-88-3 | Toluene | 50 | 49.4 | 99 | 77-122 |
| 1330-20-7 | Xylene (total) | 150 | 151 | 101 | 78-121 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 95% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 92% | 70-127% |
| 2037-26-5 | Toluene-D8 | 107% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 108% | 76-118% |

# Blank Spike Summary



**Job Number:** JB7158
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VC6214-BS | C171686.D | 1 | 05/25/12 | MAH | n/a | n/a | VC6214 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB7158-5

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | 50 | 51.4 | 103 | 76-119 |
| 100-41-4 | Ethylbenzene | 50 | 50.1 | 100 | 77-119 |
| 108-88-3 | Toluene | 50 | 50.6 | 101 | 77-122 |
| 1330-20-7 | Xylene (total) | 150 | 153 | 102 | 78-121 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 98% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 97% | 70-127% |
| 2037-26-5 | Toluene-D8 | 107% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 107% | 76-118% |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB7158
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB7158-5MS | C171661.D | 10 | 05/24/12 | MAH | n/a | n/a | VC6213 |
| JB7158-5MSD | C171662.D | 10 | 05/24/12 | MAH | n/a | n/a | VC6213 |
| JB7158-5 | C171664.D | 10 | 05/24/12 | MAH | n/a | n/a | VC6213 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB7158-1, JB7158-2, JB7158-3, JB7158-4, JB7158-5

| CAS No. | Compound | JB7158-5 ug/l | Q | Spike ug/l | MS ug/l | MS % | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | 2.9 | J | 500 | 523 | 104 | 522 | 104 | 0 | 40-139/12 |
| 100-41-4 | Ethylbenzene | ND | | 500 | 531 | 106 | 528 | 106 | 1 | 40-140/12 |
| 1634-04-4 | Methyl Tert Butyl Ether | 1910 | | 500 | 2530 | 124 | 2530 | 124 | 0 | 54-136/12 |
| 108-88-3 | Toluene | ND | | 500 | 529 | 106 | 526 | 105 | 1 | 47-140/12 |
| 1330-20-7 | Xylene (total) | ND | | 1500 | 1620 | 108 | 1610 | 107 | 1 | 42-140/12 |

| CAS No. | Surrogate Recoveries | MS | MSD | JB7158-5 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 98% | 97% | 91% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 95% | 96% | 87% | 70-127% |
| 2037-26-5 | Toluene-D8 | 108% | 108% | 105% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 109% | 109% | 108% | 76-118% |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB7158
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB7310-1MS | C171693.D | 1 | 05/25/12 | MAH | n/a | n/a | VC6214 |
| JB7310-1MSD | C171694.D | 1 | 05/25/12 | MAH | n/a | n/a | VC6214 |
| JB7310-1 | C171690.D | 1 | 05/25/12 | MAH | n/a | n/a | VC6214 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB7158-5

| CAS No. | Compound | JB7310-1 ug/l | Q | Spike ug/l | MS ug/l | MS % | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | 1.7 | | 50 | 58.2 | 113 | 54.5 | 106 | 7 | 40-139/12 |
| 100-41-4 | Ethylbenzene | ND | | 50 | 57.5 | 115 | 56.4 | 113 | 2 | 40-140/12 |
| 108-88-3 | Toluene | ND | | 50 | 57.7 | 115 | 54.6 | 109 | 6 | 47-140/12 |
| 1330-20-7 | Xylene (total) | ND | | 150 | 175 | 117 | 172 | 115 | 2 | 42-140/12 |

| CAS No. | Surrogate Recoveries | MS | MSD | JB7310-1 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 100% | 93% | 91% | 77-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 99% | 88% | 89% | 70-127% |
| 2037-26-5 | Toluene-D8 | 111% | 110% | 104% | 79-120% |
| 460-00-4 | 4-Bromofluorobenzene | 113% | 113% | 109% | 76-118% |

# Instrument Performance Check (BFB)



**Job Number:** JB7158
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Sample:** VC6200-BFB
**Lab File ID:** C171349.D
**Instrument ID:** GCMSC
**Injection Date:** 05/16/12
**Injection Time:** 09:26

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 13961 | 17.7 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 36824 | 46.7 | | Pass |
| 95 | Base peak, 100% relative abundance | 78800 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 5306 | 6.73 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 61186 | 77.6 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 5215 | 6.62 | (8.52) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 59298 | 75.3 | (96.9) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 4150 | 5.27 | (7.00) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| VC6200-IC6200 | C171350.D | 05/16/12 | 10:36 | 01:10 | Initial cal 0.5 |
| VC6200-IC6200 | C171352.D | 05/16/12 | 11:29 | 02:03 | Initial cal 5 |
| VC6200-IC6200 | C171354.D | 05/16/12 | 12:22 | 02:56 | Initial cal 10 |
| VC6200-IC6200 | C171355.D | 05/16/12 | 12:48 | 03:22 | Initial cal 20 |
| VC6200-ICC6200 | C171356.D | 05/16/12 | 13:15 | 03:49 | Initial cal 50 |
| VC6200-IC6200 | C171357.D | 05/16/12 | 13:41 | 04:15 | Initial cal 100 |
| VC6200-IC6200 | C171358.D | 05/16/12 | 14:08 | 04:42 | Initial cal 200 |
| VC6200-IC6200 | C171361.D | 05/16/12 | 16:50 | 07:24 | Initial cal 2 |
| VC6200-IC6200 | C171362.D | 05/16/12 | 17:52 | 08:26 | Initial cal 1 |

# Instrument Performance Check (BFB)



**Job Number:** JB7158
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Sample:** VC6213-BFB
**Lab File ID:** C171656.D
**Instrument ID:** GCMSC
**Injection Date:** 05/24/12
**Injection Time:** 20:11



| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 13063 | 17.4 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 34952 | 46.5 | | Pass |
| 95 | Base peak, 100% relative abundance | 75149 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 5174 | 6.88 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 59085 | 78.6 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 5026 | 6.69 | (8.51) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 57666 | 76.7 | (97.6) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 3805 | 5.06 | (6.60) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| VC6213-CC6200 | C171657.D | 05/24/12 | 20:38 | 00:27 | Continuing cal 50 |
| VC6213-MB | C171659.D | 05/24/12 | 21:30 | 01:19 | Method Blank |
| VC6213-BS | C171660.D | 05/24/12 | 21:57 | 01:46 | Blank Spike |
| JB7158-5MS | C171661.D | 05/24/12 | 22:23 | 02:12 | Matrix Spike |
| JB7158-5MSD | C171662.D | 05/24/12 | 22:49 | 02:38 | Matrix Spike Duplicate |
| JB7158-5 | C171664.D | 05/24/12 | 23:42 | 03:31 | 137675-OFFSITE-INFLUENT |
| JB7158-1 | C171665.D | 05/25/12 | 00:08 | 03:57 | 137675-OFFSITE-EFFLUENT |
| JB7158-2 | C171666.D | 05/25/12 | 00:35 | 04:24 | 137675-OFFSITE-MID3 |
| JB7158-3 | C171667.D | 05/25/12 | 01:01 | 04:50 | 137675-OFFSITE-MID2 |
| JB7158-4 | C171668.D | 05/25/12 | 01:27 | 05:16 | 137675-OFFSITE-MID1 |
| JB7158-4 | C171669.D | 05/25/12 | 01:54 | 05:43 | 137675-OFFSITE-MID1 |
| ZZZZZZ | C171671.D | 05/25/12 | 02:47 | 06:36 | (unrelated sample) |
| ZZZZZZ | C171672.D | 05/25/12 | 03:13 | 07:02 | (unrelated sample) |
| ZZZZZZ | C171673.D | 05/25/12 | 03:39 | 07:28 | (unrelated sample) |
| ZZZZZZ | C171674.D | 05/25/12 | 04:06 | 07:55 | (unrelated sample) |
| ZZZZZZ | C171675.D | 05/25/12 | 04:32 | 08:21 | (unrelated sample) |
| ZZZZZZ | C171676.D | 05/25/12 | 04:59 | 08:48 | (unrelated sample) |
| ZZZZZZ | C171677.D | 05/25/12 | 05:25 | 09:14 | (unrelated sample) |
| ZZZZZZ | C171678.D | 05/25/12 | 05:51 | 09:40 | (unrelated sample) |
| ZZZZZZ | C171679.D | 05/25/12 | 06:18 | 10:07 | (unrelated sample) |
| ZZZZZZ | C171680.D | 05/25/12 | 06:44 | 10:33 | (unrelated sample) |

# Instrument Performance Check (BFB)



**Job Number:** JB7158
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Sample:** VC6214-BFB
**Lab File ID:** C171682.D
**Instrument ID:** GCMSC
**Injection Date:** 05/25/12
**Injection Time:** 08:21



| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 12319 | 19.0 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 31541 | 48.6 | | Pass |
| 95 | Base peak, 100% relative abundance | 64941 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 4512 | 6.95 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 49840 | 76.7 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 4337 | 6.68 | (8.70) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 47888 | 73.7 | (96.1) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 3278 | 5.05 | (6.85) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| VC6214-CC6200 | C171683.D | 05/25/12 | 09:00 | 00:39 | Continuing cal 20 |
| VC6214-MB | C171685.D | 05/25/12 | 10:03 | 01:42 | Method Blank |
| VC6214-BS | C171686.D | 05/25/12 | 10:30 | 02:09 | Blank Spike |
| JB7158-5 | C171688.D | 05/25/12 | 11:36 | 03:15 | 137675-OFFSITE-INFLUENT |
| JB7310-1 | C171690.D | 05/25/12 | 12:44 | 04:23 | (used for QC only; not part of job JB7158) |
| ZZZZZZ | C171691.D | 05/25/12 | 13:10 | 04:49 | (unrelated sample) |
| ZZZZZZ | C171692.D | 05/25/12 | 13:37 | 05:16 | (unrelated sample) |
| JB7310-1MS | C171693.D | 05/25/12 | 14:03 | 05:42 | Matrix Spike |
| JB7310-1MSD | C171694.D | 05/25/12 | 14:30 | 06:09 | Matrix Spike Duplicate |
| ZZZZZZ | C171696.D | 05/25/12 | 15:23 | 07:02 | (unrelated sample) |
| ZZZZZZ | C171697.D | 05/25/12 | 15:49 | 07:28 | (unrelated sample) |
| ZZZZZZ | C171698.D | 05/25/12 | 16:16 | 07:55 | (unrelated sample) |
| ZZZZZZ | C171699.D | 05/25/12 | 16:42 | 08:21 | (unrelated sample) |
| ZZZZZZ | C171701.D | 05/25/12 | 17:35 | 09:14 | (unrelated sample) |
| ZZZZZZ | C171702.D | 05/25/12 | 18:01 | 09:40 | (unrelated sample) |
| ZZZZZZ | C171703.D | 05/25/12 | 18:28 | 10:07 | (unrelated sample) |
| ZZZZZZ | C171705.D | 05/25/12 | 19:21 | 11:00 | (unrelated sample) |
| ZZZZZZ | C171706.D | 05/25/12 | 19:47 | 11:26 | (unrelated sample) |
| ZZZZZZ | C171707.D | 05/25/12 | 20:13 | 11:52 | (unrelated sample) |

# Volatile Surrogate Recovery Summary



**Job Number:** JB7158
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Method:** SW846 8260B **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 | S2 | S3 | S4 |
|---|---|---|---|---|---|
| JB7158-1 | C171665.D | 95.0 | 95.0 | 106.0 | 110.0 |
| JB7158-2 | C171666.D | 94.0 | 94.0 | 105.0 | 109.0 |
| JB7158-3 | C171667.D | 96.0 | 95.0 | 105.0 | 110.0 |
| JB7158-4 | C171669.D | 89.0 | 86.0 | 105.0 | 107.0 |
| JB7158-4 | C171668.D | 95.0 | 95.0 | 106.0 | 108.0 |
| JB7158-5 | C171688.D | 92.0 | 91.0 | 105.0 | 108.0 |
| JB7158-5 | C171664.D | 91.0 | 87.0 | 105.0 | 108.0 |
| JB7158-5MS | C171661.D | 98.0 | 95.0 | 108.0 | 109.0 |
| JB7158-5MSD | C171662.D | 97.0 | 96.0 | 108.0 | 109.0 |
| JB7310-1MS | C171693.D | 100.0 | 99.0 | 111.0 | 113.0 |
| JB7310-1MSD | C171694.D | 93.0 | 88.0 | 110.0 | 113.0 |
| VC6213-BS | C171660.D | 95.0 | 92.0 | 107.0 | 108.0 |
| VC6213-MB | C171659.D | 94.0 | 92.0 | 105.0 | 109.0 |
| VC6214-BS | C171686.D | 98.0 | 97.0 | 107.0 | 107.0 |
| VC6214-MB | C171685.D | 97.0 | 97.0 | 105.0 | 109.0 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = Dibromofluoromethane | 77-120% |
| **S2** = 1,2-Dichloroethane-D4 | 70-127% |
| **S3** = Toluene-D8 | 79-120% |
| **S4** = 4-Bromofluorobenzene | 76-118% |

New Jersey
ACCUTEST LABORATORIES



# GC Volatiles

## QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

# Method Blank Summary



**Job Number:** JB7158
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| GUV3884-MB1 | UV98551.D | 1 | 05/25/12 | DJ | n/a | n/a | GUV3884 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB7158-1, JB7158-2, JB7158-3, JB7158-4, JB7158-5

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 85% | 68-114% |

# Method Blank Summary



**Job Number:** JB7158
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| GUV3884-MB3 | UV98573.D | 1 | 05/25/12 | DJ | n/a | n/a | GUV3884 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB7158-2MS, JB7158-2MSD

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.016 | mg/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 85% | 68-114% |

# Blank Spike Summary



**Job Number:** JB7158
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| GUV3884-BS | UV98552.D | 1 | 05/25/12 | DJ | n/a | n/a | GUV3884 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB7158-1, JB7158-2, JB7158-3, JB7158-4, JB7158-5

| CAS No. | Compound | Spike mg/l | BSP mg/l | BSP % | Limits |
|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 8 | 8.21 | 103 | 72-125 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 108% | 68-114% |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB7158
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB7158-2MS | UV98577.D | 1 | 05/25/12 | DJ | n/a | n/a | GUV3884 |
| JB7158-2MSD | UV98578.D | 1 | 05/25/12 | DJ | n/a | n/a | GUV3884 |
| JB7158-2 | UV98554.D | 1 | 05/25/12 | DJ | n/a | n/a | GUV3884 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB7158-1, JB7158-2, JB7158-3, JB7158-4, JB7158-5

| CAS No. | Compound | JB7158-2 mg/l | Q | Spike mg/l | MS mg/l | MS % | MSD mg/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | | 8 | 7.84 | 98 | 7.80 | 98 | 1 | 46-131/20 |

| CAS No. | Surrogate Recoveries | MS | MSD | JB7158-2 | Limits |
|---|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 99% | 101% | 84% | 68-114% |

# Volatile Surrogate Recovery Summary



**Job Number:** JB7158
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Method:** SW846 8015C **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 [a] |
|---|---|---|
| JB7158-1 | UV98553.D | 84.0 |
| JB7158-2 | UV98554.D | 84.0 |
| JB7158-3 | UV98555.D | 84.0 |
| JB7158-4 | UV98556.D | 84.0 |
| JB7158-5 | UV98557.D | 84.0 |
| GUV3884-BS | UV98552.D | 108.0 |
| GUV3884-MB1 | UV98551.D | 85.0 |
| JB7158-2MS | UV98577.D | 99.0 |
| JB7158-2MSD | UV98578.D | 101.0 |
| GUV3884-MB3 | UV98573.D | 85.0 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = aaa-Trifluorotoluene | 68-114% |

(a) Recovery from GC signal #1

New Jersey
ACCUTEST LABORATORIES



## GC Semi-volatiles

## QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

# Method Blank Summary



**Job Number:** JB7158
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP57236-MB1 | 5Y3125.D | 1 | 05/25/12 | CS | 05/24/12 | OP57236 | G5Y105 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB7158-1, JB7158-2, JB7158-3, JB7158-4, JB7158-5

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 84-15-1 | o-Terphenyl | 60% | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 72% | 32-138% |
| 438-22-2 | 5a-Androstane | 85% | 31-136% |

# Blank Spike Summary



**Job Number:** JB7158
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP57236-BS1 | 5Y3126.D | 1 | 05/25/12 | CS | 05/24/12 | OP57236 | G5Y105 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB7158-1, JB7158-2, JB7158-3, JB7158-4, JB7158-5

| CAS No. | Compound | Spike mg/l | BSP mg/l | BSP % | Limits |
|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | 1 | 0.865 | 87 | 15-111 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 84-15-1 | o-Terphenyl | 77% | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 71% | 32-138% |
| 438-22-2 | 5a-Androstane | 84% | 31-136% |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB7158
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP57236-MS | 5Y3146.D | 1 | 05/25/12 | CS | 05/24/12 | OP57236 | G5Y105 |
| OP57236-MSD | 5Y3147.D | 1 | 05/25/12 | CS | 05/24/12 | OP57236 | G5Y105 |
| JB6991-1 | 5Y3127.D | 1 | 05/25/12 | CS | 05/24/12 | OP57236 | G5Y105 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB7158-1, JB7158-2, JB7158-3, JB7158-4, JB7158-5

| CAS No. | Compound | JB6991-1 mg/l | Q | Spike mg/l | MS mg/l | MS % | MSD mg/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | | 2.11 | 2.09 | 99 | 1.99 | 95 | 5 | 23-160/31 |

| CAS No. | Surrogate Recoveries | MS | MSD | JB6991-1 | Limits |
|---|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 78% | 79% | 51% | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 75% | 73% | 61% | 32-138% |
| 438-22-2 | 5a-Androstane | 91% | 88% | 72% | 31-136% |

# Semivolatile Surrogate Recovery Summary



**Job Number:** JB7158
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Method:** SW846 8015C **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 [a] | S2 [a] | S3 [a] |
|---|---|---|---|---|
| JB7158-1 | 5Y3139.D | 61.0 | 74.0 | 84.0 |
| JB7158-2 | 5Y3140.D | 58.0 | 71.0 | 78.0 |
| JB7158-3 | 5Y3141.D | 62.0 | 79.0 | 87.0 |
| JB7158-4 | 5Y3142.D | 61.0 | 72.0 | 85.0 |
| JB7158-5 | 5Y3143.D | 57.0 | 67.0 | 79.0 |
| OP57236-BS1 | 5Y3126.D | 77.0 | 71.0 | 84.0 |
| OP57236-MB1 | 5Y3125.D | 60.0 | 72.0 | 85.0 |
| OP57236-MS | 5Y3146.D | 78.0 | 75.0 | 91.0 |
| OP57236-MSD | 5Y3147.D | 79.0 | 73.0 | 88.0 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = o-Terphenyl | 36-144% |
| **S2** = Tetracosane-d50 | 32-138% |
| **S3** = 5a-Androstane | 31-136% |

(a) Recovery from GC signal #1

New Jersey
ACCUTEST LABORATORIES

06/20/12

# Technical Report for

Shell Oil Products US

URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

INC#97436977

Accutest Job Number: JB8882

Sampling Date: 06/13/12

Report to:

URS Corporation
12420 Milestone Center Drive Suite 150
Germantown, MD 20876
jenna_anthony@urscorp.com; adriane_rogers@urscorp.com

ATTN: Jenna Anthony

Total number of pages in report: **47**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul Ioannidis
Lab Director

Client Service contact: Marty Vitanza 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.



Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

# Table of Contents

-1-

**Section 1: Sample Summary** ..... **3**
**Section 2: Case Narrative/Conformance Summary** ..... **4**
**Section 3: Sample Results** ..... **5**
**3.1:** JB8882-1: 137675-OFFSITE-EFFLUENT ..... 6
**3.2:** JB8882-2: 137675-OFFSITE-MID3 ..... 9
**3.3:** JB8882-3: 137675-OFFSITE-MID2 ..... 12
**3.4:** JB8882-4: 137675-OFFSITE-MID1 ..... 15
**3.5:** JB8882-5: 137675-OFFSITE-INFLUENT ..... 18
**Section 4: Misc. Forms** ..... **21**
**4.1:** Chain of Custody ..... 22
**Section 5: GC/MS Volatiles - QC Data Summaries** ..... **24**
**5.1:** Method Blank Summary ..... 25
**5.2:** Blank Spike Summary ..... 27
**5.3:** Matrix Spike/Matrix Spike Duplicate Summary ..... 29
**5.4:** Instrument Performance Checks (BFB) ..... 31
**5.5:** Surrogate Recovery Summaries ..... 36
**Section 6: GC Volatiles - QC Data Summaries** ..... **37**
**6.1:** Method Blank Summary ..... 38
**6.2:** Blank Spike Summary ..... 40
**6.3:** Matrix Spike/Matrix Spike Duplicate Summary ..... 41
**6.4:** Surrogate Recovery Summaries ..... 42
**Section 7: GC Semi-volatiles - QC Data Summaries** ..... **43**
**7.1:** Method Blank Summary ..... 44
**7.2:** Blank Spike Summary ..... 45
**7.3:** Matrix Spike/Matrix Spike Duplicate Summary ..... 46
**7.4:** Surrogate Recovery Summaries ..... 47

Accutest Laboratories

# Sample Summary

Shell Oil Products US

**Job No:** JB8882

URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD
Project No: INC#97436977

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| JB8882-1 | 06/13/12 | 10:30 | RS | 06/14/12 | AQ | Effluent | 137675-OFFSITE-EFFLUENT |
| JB8882-2 | 06/13/12 | 10:35 | RS | 06/14/12 | AQ | Ground Water | 137675-OFFSITE-MID3 |
| JB8882-3 | 06/13/12 | 10:40 | RS | 06/14/12 | AQ | Ground Water | 137675-OFFSITE-MID2 |
| JB8882-4 | 06/13/12 | 10:45 | RS | 06/14/12 | AQ | Ground Water | 137675-OFFSITE-MID1 |
| JB8882-5 | 06/13/12 | 10:50 | RS | 06/14/12 | AQ | Influent | 137675-OFFSITE-INFLUENT |

# CASE NARRATIVE / CONFORMANCE SUMMARY

| | | | |
|---|---|---|---|
| **Client:** | Shell Oil Products US | **Job No** | JB8882 |
| **Site:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Sprin | **Report Date** | 6/19/2012 4:12:30 PM |

On 06/14/2012, 5 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 4 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB8882 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

## Volatiles by GCMS By Method SW846 8260B

**Matrix:** AQ **Batch ID:** V3B3942

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB8882-2MS, JB8882-2MSD were used as the QC samples indicated.

**Matrix:** AQ **Batch ID:** V3B3945

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB8717-1MS, JB8717-1MSD were used as the QC samples indicated.

## Volatiles by GC By Method SW846 8015C

**Matrix:** AQ **Batch ID:** GUV3904

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB8773-1MS, JB8773-1MSD were used as the QC samples indicated.

## Extractables by GC By Method SW846 8015C

**Matrix:** AQ **Batch ID:** OP57704

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB8882-1MS, JB8882-1MSD were used as the QC samples indicated.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

New Jersey

ACCUTEST LABORATORIES



## Sample Results

Report of Analysis

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-EFFLUENT | | |
| **Lab Sample ID:** | JB8882-1 | **Date Sampled:** | 06/13/12 |
| **Matrix:** | AQ - Effluent | **Date Received:** | 06/14/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 3B84498.D | 1 | 06/15/12 | TLR | n/a | n/a | V3B3942 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**Purgeable Aromatics, MTBE**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | 1.0 | 0.24 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.23 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.23 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.24 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.16 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 108% | | 81-121% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 113% | | 74-127% |
| 2037-26-5 | Toluene-D8 | 107% | | 80-122% |
| 460-00-4 | 4-Bromofluorobenzene | 95% | | 78-116% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-EFFLUENT | | |
| **Lab Sample ID:** | JB8882-1 | **Date Sampled:** | 06/13/12 |
| **Matrix:** | AQ - Effluent | **Date Received:** | 06/14/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV99068.D | 1 | 06/15/12 | XPL | n/a | n/a | GUV3904 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.040 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 87% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-EFFLUENT | | |
| **Lab Sample ID:** | JB8882-1 | **Date Sampled:** | 06/13/12 |
| **Matrix:** | AQ - Effluent | **Date Received:** | 06/14/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Y45488.D | 1 | 06/18/12 | CS | 06/15/12 | OP57704 | G2Y1866 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 880 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.11 | 0.0040 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 82% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 80% | | 32-138% |
| 438-22-2 | 5a-Androstane | 95% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-MID3 | | |
| **Lab Sample ID:** | JB8882-2 | **Date Sampled:** | 06/13/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/14/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 3B84494.D | 1 | 06/15/12 | TLR | n/a | n/a | V3B3942 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**Purgeable Aromatics, MTBE**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | 1.0 | 0.24 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.23 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.23 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.24 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.16 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 108% | | 81-121% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 114% | | 74-127% |
| 2037-26-5 | Toluene-D8 | 107% | | 80-122% |
| 460-00-4 | 4-Bromofluorobenzene | 94% | | 78-116% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-MID3 | | |
| **Lab Sample ID:** | JB8882-2 | **Date Sampled:** | 06/13/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/14/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV99069.D | 1 | 06/15/12 | XPL | n/a | n/a | GUV3904 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.040 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 87% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-MID3 | | |
| **Lab Sample ID:** | JB8882-2 | **Date Sampled:** | 06/13/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/14/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Y45489.D | 1 | 06/18/12 | CS | 06/15/12 | OP57704 | G2Y1866 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 890 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.11 | 0.0039 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 77% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 75% | | 32-138% |
| 438-22-2 | 5a-Androstane | 89% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-MID2 | | |
| **Lab Sample ID:** | JB8882-3 | **Date Sampled:** | 06/13/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/14/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 3B84495.D | 1 | 06/15/12 | TLR | n/a | n/a | V3B3942 |
| Run #2 | 3B84545.D | 10 | 06/18/12 | TLR | n/a | n/a | V3B3945 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**Purgeable Aromatics, MTBE**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | 1.0 | 0.24 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.23 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.23 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.24 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 282 [a] | 10 | 1.6 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 109% | 107% | 81-121% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 116% | 116% | 74-127% |
| 2037-26-5 | Toluene-D8 | 107% | 108% | 80-122% |
| 460-00-4 | 4-Bromofluorobenzene | 95% | 94% | 78-116% |

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-MID2 | | |
| **Lab Sample ID:** | JB8882-3 | **Date Sampled:** | 06/13/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/14/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV99070.D | 1 | 06/15/12 | XPL | n/a | n/a | GUV3904 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 0.336 | 0.20 | 0.040 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 88% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-MID2 | | |
| **Lab Sample ID:** | JB8882-3 | **Date Sampled:** | 06/13/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/14/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Y45490.D | 1 | 06/18/12 | CS | 06/15/12 | OP57704 | G2Y1866 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 910 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.11 | 0.0038 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 80% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 73% | | 32-138% |
| 438-22-2 | 5a-Androstane | 89% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-MID1 | | |
| **Lab Sample ID:** | JB8882-4 | **Date Sampled:** | 06/13/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/14/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 3B84499.D | 1 | 06/15/12 | TLR | n/a | n/a | V3B3942 |
| Run #2 | 3B84500.D | 10 | 06/15/12 | TLR | n/a | n/a | V3B3942 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**Purgeable Aromatics, MTBE**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | 1.0 | 0.24 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.23 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.23 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.24 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 585 [a] | 10 | 1.6 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 109% | 108% | 81-121% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 116% | 115% | 74-127% |
| 2037-26-5 | Toluene-D8 | 107% | 105% | 80-122% |
| 460-00-4 | 4-Bromofluorobenzene | 94% | 96% | 78-116% |

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-MID1 | | |
| **Lab Sample ID:** | JB8882-4 | **Date Sampled:** | 06/13/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/14/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV99071.D | 1 | 06/15/12 | XPL | n/a | n/a | GUV3904 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 0.712 | 0.20 | 0.040 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 87% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-MID1 | | |
| **Lab Sample ID:** | JB8882-4 | **Date Sampled:** | 06/13/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/14/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Y45491.D | 1 | 06/18/12 | CS | 06/15/12 | OP57704 | G2Y1866 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 880 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.11 | 0.0040 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 80% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 71% | | 32-138% |
| 438-22-2 | 5a-Androstane | 84% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-INFLUENT | | |
| **Lab Sample ID:** | JB8882-5 | **Date Sampled:** | 06/13/12 |
| **Matrix:** | AQ - Influent | **Date Received:** | 06/14/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 3B84501.D | 1 | 06/15/12 | TLR | n/a | n/a | V3B3942 |
| Run #2 | 3B84502.D | 10 | 06/15/12 | TLR | n/a | n/a | V3B3942 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**Purgeable Aromatics, MTBE**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | 2.6 | 1.0 | 0.24 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.23 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.23 | ug/l | |
| 1330-20-7 | Xylene (total) | 0.34 | 1.0 | 0.24 | ug/l | J |
| 1634-04-4 | Methyl Tert Butyl Ether | 1950 [a] | 10 | 1.6 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 109% | 108% | 81-121% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 117% | 117% | 74-127% |
| 2037-26-5 | Toluene-D8 | 109% | 107% | 80-122% |
| 460-00-4 | 4-Bromofluorobenzene | 96% | 95% | 78-116% |

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-INFLUENT | | |
| **Lab Sample ID:** | JB8882-5 | **Date Sampled:** | 06/13/12 |
| **Matrix:** | AQ - Influent | **Date Received:** | 06/14/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV99072.D | 1 | 06/15/12 | XPL | n/a | n/a | GUV3904 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 2.21 | 0.20 | 0.040 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 87% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-INFLUENT | | |
| **Lab Sample ID:** | JB8882-5 | **Date Sampled:** | 06/13/12 |
| **Matrix:** | AQ - Influent | **Date Received:** | 06/14/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2Y45492.D | 1 | 06/18/12 | CS | 06/15/12 | OP57704 | G2Y1866 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 910 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.11 | 0.0038 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 75% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 74% | | 32-138% |
| 438-22-2 | 5a-Androstane | 88% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey

4

# Misc. Forms

## Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

# Shell Oil Products Chain Of Custody Record

URS

LAB (LOCATION)
- [ ] XENCO ( )
- [ ] Test America ( )
- [x] OTHER ( )
  - [x] Lab Vendor # ( )
- [ ] SPL ( )

Lab Vendor #

**Please Check Appropriate Box:**
- [x] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [ ] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER

| Print Bill To Contact Name: | INCIDENT # (ENV SERVICES) | [ ] CHECK IF NO INCIDENT # APPLIES |
|---|---|---|
| Adriane Rogers | 97436977 (137675 | DATE: 6-13-12 |
| PO # | SAP # | PAGE: 1 of 1 |
| | 137675 | |

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
ADDRESS: 200 ORCHARD RIDGE DRIVE, SUITE 100, GAITHERSBURG, MD 20878
PROJECT CONTACT (Hardcopy or PDF Report to): See Dropdown
TELEPHONE: 301-258-9780 FAX: 301-869-8728 Bill To Contact E-MAIL: adriane_rogers@urscorp.com

SITE ADDRESS: Street and City: 15541 New Hampshire Avenue, Silver Spring State: MD GLOBAL ID NO.:
EDF DELIVERABLE TO (Name, Company, Office Location): Adriane Rogers PHONE NO.: 301-258-9780 E-MAIL: adriane_rogers@urscorp.com CONSULTANT PROJECT NO.: 137675
SAMPLER NAME(S) (Print): Roderick Sample
LAB USE ONLY: JB8882

TURNAROUND TIME (CALENDAR DAYS): [ ] STANDARD (14 DAY) [ ] 5 DAYS [x] 3 DAYS [ ] 2 DAYS [ ] 24 HOURS [ ] RESULTS NEEDED ON WEEKEND

[ ] LA - RWQCB REPORT FORMAT [ ] UST AGENCY:

DELIVERABLES: [ ] LEVEL 1 [x] LEVEL 2 [ ] LEVEL 3 [ ] LEVEL 4 [ ] OTHER (SPECIFY)

TEMPERATURE ON RECEIPT C°: Cooler #1 4.0 C 3.8 Cooler #2 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES:
- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [ ] RECEIPT VERIFICATION REQUESTED
- [ ] PROVIDE LEDD DISK

REQUESTED ANALYSIS

| LAB USE ONLY | Field Sample Identification | SAMPLING DATE | SAMPLING TIME | MATRIX | PRESERVATIVE HCL | HNO3 | H2SO4 | NONE | OTHER | NO. OF CONT. | TPH - (8015) GRO | TPH - (8015) DRO | BTEX, MTBE (8260B) | FIELD NOTES: Container PID Readings or Laboratory Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -1 | 137675 - Offsite - Effluent | 6-13-12 | 10:30 | GW | x | | | | | 7 | X | X | X | UTC33 |
| -2 | 137675 - Offsite - Mid3 | | 10:35 | GW | x | | | | | 7 | X | X | X | 2299H |
| -3 | 137675 - Offsite - Mid2 | | 10:40 | GW | x | | | | | 7 | X | X | X | |
| -4 | 137675 - Offsite - Mid1 | | 10:45 | GW | x | | | | | 7 | X | X | X | |
| 5 | 137675 - Offsite - Influent | | 10:50 | GW | x | | | | | 7 | X | X | X | |
| -6 | 137675 - Onsite - Effluent | | N/A | GW | x | | | | | 7 | X | X | X | |
| -7 | 137675 - Onsite - Mid | | N/A | GW | x | | | | | 7 | X | X | X | |
| -8 | 137675 - Onsite - Influent | | N/A | GW | x | | | | | 7 | X | X | X | |
| | 6/14/12 | | | | | | | | | | | | | |

| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
|---|---|---|---|
| | FEDEX | | |
| Relinquished by: (Signature) FEDEX | Received by: (Signature) | Date: 6-14-12 | Time: 10:00 |
| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |

05/2/06 Revision

2A

ALL SAMPLES RECEIVED PRESERVED AS APPLICABLE 2L 6/14/12

TMA

**JB8882: Chain of Custody**
**Page 1 of 2**

# Accutest Laboratories Sample Receipt Summary

**Accutest Job Number:** JB8882 **Client:** **Project:**

**Date / Time Received:** 6/14/2012 **Delivery Method:** **Airbill #'s:**

**Cooler Temps (Initial/Adjusted):** #1: (4/4); 0

| Cooler Security | Y | N | | Y | N |
|---|---|---|---|---|---|
| 1. Custody Seals Present: | ☑ | ☐ | 3. COC Present: | ☑ | ☐ |
| 2. Custody Seals Intact: | ☑ | ☐ | 4. Smpl Dates/Time OK | ☑ | ☐ |

| Cooler Temperature | Y | N |
|---|---|---|
| 1. Temp criteria achieved: | ☑ | ☐ |
| 2. Cooler temp verification: | Bar Therm | |
| 3. Cooler media: | Ice (Bag) | |
| 4. No. Coolers: | 1 | |

| Quality Control Preservation | Y | N | N/A |
|---|---|---|---|
| 1. Trip Blank present / cooler: | ☐ | ☑ | ☐ |
| 2. Trip Blank listed on COC: | ☐ | ☑ | ☐ |
| 3. Samples preserved properly: | ☑ | ☐ | |
| 4. VOCs headspace free: | ☑ | ☐ | ☐ |

| Sample Integrity - Documentation | Y | N |
|---|---|---|
| 1. Sample labels present on bottles: | ☑ | ☐ |
| 2. Container labeling complete: | ☑ | ☐ |
| 3. Sample container label / COC agree: | ☑ | ☐ |

| Sample Integrity - Condition | Y | N |
|---|---|---|
| 1. Sample recvd within HT: | ☑ | ☐ |
| 2. All containers accounted for: | ☑ | ☐ |
| 3. Condition of sample: | Intact | |

| Sample Integrity - Instructions | Y | N | N/A |
|---|---|---|---|
| 1. Analysis requested is clear: | ☑ | ☐ | |
| 2. Bottles received for unspecified tests | ☐ | ☑ | |
| 3. Sufficient volume recvd for analysis: | ☑ | ☐ | |
| 4. Compositing instructions clear: | ☐ | ☐ | ☑ |
| 5. Filtering instructions clear: | ☐ | ☐ | ☑ |

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

**JB8882: Chain of Custody**
**Page 2 of 2**

New Jersey

ACCUTEST LABORATORIES



# GC/MS Volatiles

## QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

# Method Blank Summary



**Job Number:** JB8882
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V3B3942-MB | 3B84491.D | 1 | 06/15/12 | TLR | n/a | n/a | V3B3942 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB8882-1, JB8882-2, JB8882-3, JB8882-4, JB8882-5

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | 1.0 | 0.24 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.23 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.16 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.23 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.24 | ug/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 106% | 81-121% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 112% | 74-127% |
| 2037-26-5 | Toluene-D8 | 106% | 80-122% |
| 460-00-4 | 4-Bromofluorobenzene | 95% | 78-116% |

# Method Blank Summary



**Job Number:** JB8882
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V3B3945-MB | 3B84543.D | 1 | 06/18/12 | TLR | n/a | n/a | V3B3945 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB8882-3

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.16 | ug/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 105% | 81-121% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 116% | 74-127% |
| 2037-26-5 | Toluene-D8 | 106% | 80-122% |
| 460-00-4 | 4-Bromofluorobenzene | 95% | 78-116% |

# Blank Spike Summary



**Job Number:** JB8882
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V3B3942-BS | 3B84492.D | 1 | 06/15/12 | TLR | n/a | n/a | V3B3942 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB8882-1, JB8882-2, JB8882-3, JB8882-4, JB8882-5

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | 50 | 54.0 | 108 | 79-116 |
| 100-41-4 | Ethylbenzene | 50 | 53.0 | 106 | 81-118 |
| 1634-04-4 | Methyl Tert Butyl Ether | 100 | 111 | 111 | 77-120 |
| 108-88-3 | Toluene | 50 | 55.4 | 111 | 82-119 |
| 1330-20-7 | Xylene (total) | 150 | 159 | 106 | 82-119 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 112% | 81-121% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 114% | 74-127% |
| 2037-26-5 | Toluene-D8 | 108% | 80-122% |
| 460-00-4 | 4-Bromofluorobenzene | 98% | 78-116% |

# Blank Spike Summary



**Job Number:** JB8882
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V3B3945-BS | 3B84544.D | 1 | 06/18/12 | TLR | n/a | n/a | V3B3945 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB8882-3

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 1634-04-4 | Methyl Tert Butyl Ether | 100 | 102 | 102 | 77-120 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 108% | 81-121% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 116% | 74-127% |
| 2037-26-5 | Toluene-D8 | 107% | 80-122% |
| 460-00-4 | 4-Bromofluorobenzene | 94% | 78-116% |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB8882
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB8882-2MS | 3B84496.D | 1 | 06/15/12 | TLR | n/a | n/a | V3B3942 |
| JB8882-2MSD | 3B84497.D | 1 | 06/15/12 | TLR | n/a | n/a | V3B3942 |
| JB8882-2 | 3B84494.D | 1 | 06/15/12 | TLR | n/a | n/a | V3B3942 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB8882-1, JB8882-2, JB8882-3, JB8882-4, JB8882-5

| CAS No. | Compound | JB8882-2 ug/l | Q | Spike ug/l | MS ug/l | MS % | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 50 | 47.9 | 96 | 47.6 | 95 | 1 | 48-138/11 |
| 100-41-4 | Ethylbenzene | ND | | 50 | 48.7 | 97 | 47.1 | 94 | 3 | 48-139/11 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 50 | 60.1 | 120 | 60.1 | 120 | 0 | 63-133/11 |
| 108-88-3 | Toluene | ND | | 50 | 49.8 | 100 | 49.5 | 99 | 1 | 55-138/11 |
| 1330-20-7 | Xylene (total) | ND | | 150 | 146 | 97 | 143 | 95 | 2 | 51-139/11 |

| CAS No. | Surrogate Recoveries | MS | MSD | JB8882-2 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 110% | 111% | 108% | 81-121% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 114% | 114% | 114% | 74-127% |
| 2037-26-5 | Toluene-D8 | 107% | 108% | 107% | 80-122% |
| 460-00-4 | 4-Bromofluorobenzene | 96% | 97% | 94% | 78-116% |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB8882
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB8717-1MS | 3B84550.D | 1 | 06/18/12 | TLR | n/a | n/a | V3B3945 |
| JB8717-1MSD | 3B84551.D | 1 | 06/18/12 | TLR | n/a | n/a | V3B3945 |
| JB8717-1 | 3B84546.D | 1 | 06/18/12 | TLR | n/a | n/a | V3B3945 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB8882-3

| CAS No. | Compound | JB8717-1 ug/l | Q | Spike ug/l | MS ug/l | MS % | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| 1634-04-4 | Methyl Tert Butyl Ether | 21.9 | | 50 | 71.9 | 100 | 69.1 | 94 | 4 | 63-133/11 |

| CAS No. | Surrogate Recoveries | MS | MSD | JB8717-1 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 109% | 109% | 106% | 81-121% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 120% | 120% | 118% | 74-127% |
| 2037-26-5 | Toluene-D8 | 107% | 107% | 107% | 80-122% |
| 460-00-4 | 4-Bromofluorobenzene | 96% | 95% | 94% | 78-116% |

# Instrument Performance Check (BFB)



**Job Number:** JB8882
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Sample:** V3B3941-BFB
**Lab File ID:** 3B84474.D
**Instrument ID:** GCMS3B
**Injection Date:** 06/14/12
**Injection Time:** 19:50



| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 12582 | 19.7 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 32157 | 50.4 | | Pass |
| 95 | Base peak, 100% relative abundance | 63762 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 4215 | 6.61 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 60341 | 94.6 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 5045 | 7.91 | (8.36) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 60392 | 94.7 | (100.1) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 3856 | 6.05 | (6.38) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V3B3941-IC3941 | 3B84475.D | 06/14/12 | 20:20 | 00:30 | Initial cal 0.5 |
| V3B3941-IC3941 | 3B84476.D | 06/14/12 | 20:49 | 00:59 | Initial cal 1 |
| V3B3941-IC3941 | 3B84477.D | 06/14/12 | 21:19 | 01:29 | Initial cal 2 |
| V3B3941-IC3941 | 3B84478.D | 06/14/12 | 21:48 | 01:58 | Initial cal 5 |
| V3B3941-IC3941 | 3B84479.D | 06/14/12 | 22:18 | 02:28 | Initial cal 10 |
| V3B3941-IC3941 | 3B84480.D | 06/14/12 | 22:48 | 02:58 | Initial cal 20 |
| V3B3941-ICC3941 | 3B84481.D | 06/14/12 | 23:17 | 03:27 | Initial cal 50 |
| V3B3941-IC3941 | 3B84482.D | 06/14/12 | 23:47 | 03:57 | Initial cal 100 |
| V3B3941-IC3941 | 3B84483.D | 06/15/12 | 00:17 | 04:27 | Initial cal 200 |
| V3B3941-ICV3941 | 3B84486.D | 06/15/12 | 01:46 | 05:56 | Initial cal verification 50 |

# Instrument Performance Check (BFB)



**Job Number:** JB8882
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Sample:** V3B3942-BFB
**Lab File ID:** 3B84487.D
**Instrument ID:** GCMS3B
**Injection Date:** 06/15/12
**Injection Time:** 09:11



| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 14065 | 19.4 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 35800 | 49.3 | | Pass |
| 95 | Base peak, 100% relative abundance | 72570 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 4705 | 6.48 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 70018 | 96.5 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 5638 | 7.77 | (8.05) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 69397 | 95.6 | (99.1) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 4404 | 6.07 | (6.35) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V3B3942-CC3941 | 3B84489.D | 06/15/12 | 10:49 | 01:38 | Continuing cal 20 |
| V3B3942-MB | 3B84491.D | 06/15/12 | 12:42 | 03:31 | Method Blank |
| V3B3942-BS | 3B84492.D | 06/15/12 | 13:38 | 04:27 | Blank Spike |
| JB8882-2 | 3B84494.D | 06/15/12 | 14:48 | 05:37 | 137675-OFFSITE-MID3 |
| JB8882-3 | 3B84495.D | 06/15/12 | 15:18 | 06:07 | 137675-OFFSITE-MID2 |
| JB8882-2MS | 3B84496.D | 06/15/12 | 15:57 | 06:46 | Matrix Spike |
| JB8882-2MSD | 3B84497.D | 06/15/12 | 16:27 | 07:16 | Matrix Spike Duplicate |
| JB8882-1 | 3B84498.D | 06/15/12 | 16:56 | 07:45 | 137675-OFFSITE-EFFLUENT |
| JB8882-4 | 3B84499.D | 06/15/12 | 17:26 | 08:15 | 137675-OFFSITE-MID1 |
| JB8882-4 | 3B84500.D | 06/15/12 | 17:56 | 08:45 | 137675-OFFSITE-MID1 |
| JB8882-5 | 3B84501.D | 06/15/12 | 18:26 | 09:15 | 137675-OFFSITE-INFLUENT |
| JB8882-5 | 3B84502.D | 06/15/12 | 18:55 | 09:44 | 137675-OFFSITE-INFLUENT |
| ZZZZZZ | 3B84503.D | 06/15/12 | 19:25 | 10:14 | (unrelated sample) |
| ZZZZZZ | 3B84504.D | 06/15/12 | 19:55 | 10:44 | (unrelated sample) |
| ZZZZZZ | 3B84513.D | 06/16/12 | 00:23 | 15:12 | (unrelated sample) |
| ZZZZZZ | 3B84514.D | 06/16/12 | 00:53 | 15:42 | (unrelated sample) |
| ZZZZZZ | 3B84519.D | 06/16/12 | 03:22 | 18:11 | (unrelated sample) |
| ZZZZZZ | 3B84520.D | 06/16/12 | 03:52 | 18:41 | (unrelated sample) |
| ZZZZZZ | 3B84521.D | 06/16/12 | 04:21 | 19:10 | (unrelated sample) |
| ZZZZZZ | 3B84522.D | 06/16/12 | 04:51 | 19:40 | (unrelated sample) |
| ZZZZZZ | 3B84523.D | 06/16/12 | 05:21 | 20:10 | (unrelated sample) |
| ZZZZZZ | 3B84524.D | 06/16/12 | 05:51 | 20:40 | (unrelated sample) |
| ZZZZZZ | 3B84525.D | 06/16/12 | 06:20 | 21:09 | (unrelated sample) |
| ZZZZZZ | 3B84527.D | 06/16/12 | 07:20 | 22:09 | (unrelated sample) |

# Instrument Performance Check (BFB)



**Job Number:** JB8882
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Sample:** V3B3942-BFB
**Lab File ID:** 3B84487.D
**Instrument ID:** GCMS3B
**Injection Date:** 06/15/12
**Injection Time:** 09:11

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| ZZZZZZ | 3B84528.D | 06/16/12 | 07:50 | 22:39 | (unrelated sample) |

# Instrument Performance Check (BFB)



**Job Number:** JB8882
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Sample:** V3B3945-BFB
**Lab File ID:** 3B84540.D
**Instrument ID:** GCMS3B
**Injection Date:** 06/18/12
**Injection Time:** 08:40



| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 8882 | 20.6 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 22490 | 52.2 | | Pass |
| 95 | Base peak, 100% relative abundance | 43120 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 2983 | 6.92 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 43858 | 101.7 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 3649 | 8.46 | (8.32) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 43256 | 100.3 | (98.6) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 2881 | 6.68 | (6.66) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V3B3945-CC3941 | 3B84541.D | 06/18/12 | 09:09 | 00:29 | Continuing cal 20 |
| V3B3945-MB | 3B84543.D | 06/18/12 | 10:18 | 01:38 | Method Blank |
| V3B3945-BS | 3B84544.D | 06/18/12 | 11:05 | 02:25 | Blank Spike |
| JB8882-3 | 3B84545.D | 06/18/12 | 11:45 | 03:05 | 137675-OFFSITE-MID2 |
| JB8717-1 | 3B84546.D | 06/18/12 | 12:15 | 03:35 | (used for QC only; not part of job JB8882) |
| ZZZZZZ | 3B84547.D | 06/18/12 | 12:45 | 04:05 | (unrelated sample) |
| ZZZZZZ | 3B84548.D | 06/18/12 | 13:14 | 04:34 | (unrelated sample) |
| ZZZZZZ | 3B84549.D | 06/18/12 | 13:44 | 05:04 | (unrelated sample) |
| JB8717-1MS | 3B84550.D | 06/18/12 | 14:14 | 05:34 | Matrix Spike |
| JB8717-1MSD | 3B84551.D | 06/18/12 | 14:44 | 06:04 | Matrix Spike Duplicate |
| ZZZZZZ | 3B84553.D | 06/18/12 | 15:46 | 07:06 | (unrelated sample) |
| ZZZZZZ | 3B84554.D | 06/18/12 | 16:16 | 07:36 | (unrelated sample) |
| ZZZZZZ | 3B84555.D | 06/18/12 | 16:45 | 08:05 | (unrelated sample) |
| ZZZZZZ | 3B84556.D | 06/18/12 | 17:15 | 08:35 | (unrelated sample) |
| ZZZZZZ | 3B84557.D | 06/18/12 | 17:45 | 09:05 | (unrelated sample) |
| ZZZZZZ | 3B84558.D | 06/18/12 | 18:15 | 09:35 | (unrelated sample) |
| ZZZZZZ | 3B84559.D | 06/18/12 | 18:44 | 10:04 | (unrelated sample) |
| ZZZZZZ | 3B84560.D | 06/18/12 | 19:14 | 10:34 | (unrelated sample) |
| ZZZZZZ | 3B84561.D | 06/18/12 | 19:43 | 11:03 | (unrelated sample) |
| ZZZZZZ | 3B84562.D | 06/18/12 | 20:13 | 11:33 | (unrelated sample) |
| ZZZZZZ | 3B84571.D | 06/19/12 | 00:41 | 16:01 | (unrelated sample) |
| ZZZZZZ | 3B84572.D | 06/19/12 | 01:11 | 16:31 | (unrelated sample) |
| ZZZZZZ | 3B84573.D | 06/19/12 | 01:40 | 17:00 | (unrelated sample) |
| ZZZZZZ | 3B84574.D | 06/19/12 | 02:10 | 17:30 | (unrelated sample) |

# Instrument Performance Check (BFB)



**Job Number:** JB8882
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Sample:** V3B3945-BFB
**Lab File ID:** 3B84540.D
**Instrument ID:** GCMS3B
**Injection Date:** 06/18/12
**Injection Time:** 08:40

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| ZZZZZZ | 3B84575.D | 06/19/12 | 02:40 | 18:00 | (unrelated sample) |
| ZZZZZZ | 3B84576.D | 06/19/12 | 03:10 | 18:30 | (unrelated sample) |
| ZZZZZZ | 3B84577.D | 06/19/12 | 03:39 | 18:59 | (unrelated sample) |
| ZZZZZZ | 3B84578.D | 06/19/12 | 04:09 | 19:29 | (unrelated sample) |
| ZZZZZZ | 3B84579.D | 06/19/12 | 04:39 | 19:59 | (unrelated sample) |
| ZZZZZZ | 3B84580.D | 06/19/12 | 05:09 | 20:29 | (unrelated sample) |
| ZZZZZZ | 3B84581.D | 06/19/12 | 05:39 | 20:59 | (unrelated sample) |
| ZZZZZZ | 3B84582.D | 06/19/12 | 06:09 | 21:29 | (unrelated sample) |

# Volatile Surrogate Recovery Summary



**Job Number:** JB8882
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Method:** SW846 8260B **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 | S2 | S3 | S4 |
|---|---|---|---|---|---|
| JB8882-1 | 3B84498.D | 108.0 | 113.0 | 107.0 | 95.0 |
| JB8882-2 | 3B84494.D | 108.0 | 114.0 | 107.0 | 94.0 |
| JB8882-3 | 3B84545.D | 107.0 | 116.0 | 108.0 | 94.0 |
| JB8882-3 | 3B84495.D | 109.0 | 116.0 | 107.0 | 95.0 |
| JB8882-4 | 3B84500.D | 108.0 | 115.0 | 105.0 | 96.0 |
| JB8882-4 | 3B84499.D | 109.0 | 116.0 | 107.0 | 94.0 |
| JB8882-5 | 3B84502.D | 108.0 | 117.0 | 107.0 | 95.0 |
| JB8882-5 | 3B84501.D | 109.0 | 117.0 | 109.0 | 96.0 |
| JB8717-1MS | 3B84550.D | 109.0 | 120.0 | 107.0 | 96.0 |
| JB8717-1MSD | 3B84551.D | 109.0 | 120.0 | 107.0 | 95.0 |
| JB8882-2MS | 3B84496.D | 110.0 | 114.0 | 107.0 | 96.0 |
| JB8882-2MSD | 3B84497.D | 111.0 | 114.0 | 108.0 | 97.0 |
| V3B3942-BS | 3B84492.D | 112.0 | 114.0 | 108.0 | 98.0 |
| V3B3942-MB | 3B84491.D | 106.0 | 112.0 | 106.0 | 95.0 |
| V3B3945-BS | 3B84544.D | 108.0 | 116.0 | 107.0 | 94.0 |
| V3B3945-MB | 3B84543.D | 105.0 | 116.0 | 106.0 | 95.0 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = Dibromofluoromethane | 81-121% |
| **S2** = 1,2-Dichloroethane-D4 | 74-127% |
| **S3** = Toluene-D8 | 80-122% |
| **S4** = 4-Bromofluorobenzene | 78-116% |

New Jersey
ACCUTEST LABORATORIES



# GC Volatiles

## QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

# Method Blank Summary



**Job Number:** JB8882
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| GUV3904-MB2 | UV99067.D | 1 | 06/15/12 | XPL | n/a | n/a | GUV3904 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB8882-1, JB8882-2, JB8882-3, JB8882-4, JB8882-5

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.040 | mg/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 87% | 68-114% |

# Method Blank Summary



**Job Number:** JB8882
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| GUV3904-MB1 | UV99056.D | 1 | 06/15/12 | XPL | n/a | n/a | GUV3904 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

GUV3904-BS, JB8773-1MS, JB8773-1MSD

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.040 | mg/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 87% | 68-114% |

# Blank Spike Summary



**Job Number:** JB8882
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| GUV3904-BS | UV99057.D | 1 | 06/15/12 | XPL | n/a | n/a | GUV3904 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB8882-1, JB8882-2, JB8882-3, JB8882-4, JB8882-5

| CAS No. | Compound | Spike mg/l | BSP mg/l | BSP % | Limits |
|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 8 | 8.42 | 105 | 72-125 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 112% | 68-114% |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB8882
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB8773-1MS | UV99064.D | 1 | 06/15/12 | XPL | n/a | n/a | GUV3904 |
| JB8773-1MSD | UV99065.D | 1 | 06/15/12 | XPL | n/a | n/a | GUV3904 |
| JB8773-1 | UV99058.D | 1 | 06/15/12 | XPL | n/a | n/a | GUV3904 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB8882-1, JB8882-2, JB8882-3, JB8882-4, JB8882-5

| CAS No. | Compound | JB8773-1 mg/l | Q | Spike mg/l | MS mg/l | MS % | MSD mg/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | | 8 | 8.10 | 101 | 7.99 | 100 | 1 | 46-131/20 |

| CAS No. | Surrogate Recoveries | MS | MSD | JB8773-1 | Limits |
|---|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 105% | 104% | 88% | 68-114% |

# Volatile Surrogate Recovery Summary



**Job Number:** JB8882
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Method:** SW846 8015C **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 [a] |
|---|---|---|
| JB8882-1 | UV99068.D | 87.0 |
| JB8882-2 | UV99069.D | 87.0 |
| JB8882-3 | UV99070.D | 88.0 |
| JB8882-4 | UV99071.D | 87.0 |
| JB8882-5 | UV99072.D | 87.0 |
| GUV3904-BS | UV99057.D | 112.0 |
| GUV3904-MB2 | UV99067.D | 87.0 |
| JB8773-1MS | UV99064.D | 105.0 |
| JB8773-1MSD | UV99065.D | 104.0 |
| GUV3904-MB1 | UV99056.D | 87.0 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = aaa-Trifluorotoluene | 68-114% |

(a) Recovery from GC signal #1

New Jersey
ACCUTEST LABORATORIES



# GC Semi-volatiles

## QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

# Method Blank Summary



**Job Number:** JB8882
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP57704-MB1 | 2Y45486.D | 1 | 06/18/12 | CS | 06/15/12 | OP57704 | G2Y1866 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB8882-1, JB8882-2, JB8882-3, JB8882-4, JB8882-5

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 84-15-1 | o-Terphenyl | 82% | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 83% | 32-138% |
| 438-22-2 | 5a-Androstane | 99% | 31-136% |

# Blank Spike Summary



**Job Number:** JB8882
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP57704-BS1 | 2Y45487.D | 1 | 06/18/12 | CS | 06/15/12 | OP57704 | G2Y1866 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB8882-1, JB8882-2, JB8882-3, JB8882-4, JB8882-5

| CAS No. | Compound | Spike mg/l | BSP mg/l | BSP % | Limits |
|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | 1 | 0.777 | 78 | 15-111 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 84-15-1 | o-Terphenyl | 80% | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 80% | 32-138% |
| 438-22-2 | 5a-Androstane | 99% | 31-136% |

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB8882
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP57704-MS | 2Y45493.D | 1 | 06/18/12 | CS | 06/15/12 | OP57704 | G2Y1866 |
| OP57704-MSD | 2Y45494.D | 1 | 06/18/12 | CS | 06/15/12 | OP57704 | G2Y1866 |
| JB8882-1 | 2Y45488.D | 1 | 06/18/12 | CS | 06/15/12 | OP57704 | G2Y1866 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB8882-1, JB8882-2, JB8882-3, JB8882-4, JB8882-5

| CAS No. | Compound | JB8882-1 mg/l | Q | Spike mg/l | MS mg/l | MS % | MSD mg/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | | 2.22 | 1.68 | 76 | 1.72 | 77 | 2 | 23-160/31 |

| CAS No. | Surrogate Recoveries | MS | MSD | JB8882-1 | Limits |
|---|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 73% | 73% | 82% | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 74% | 75% | 80% | 32-138% |
| 438-22-2 | 5a-Androstane | 92% | 92% | 95% | 31-136% |

# Semivolatile Surrogate Recovery Summary



**Job Number:** JB8882
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Method:** SW846 8015C **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 [a] | S2 [a] | S3 [a] |
|---|---|---|---|---|
| JB8882-1 | 2Y45488.D | 82.0 | 80.0 | 95.0 |
| JB8882-2 | 2Y45489.D | 77.0 | 75.0 | 89.0 |
| JB8882-3 | 2Y45490.D | 80.0 | 73.0 | 89.0 |
| JB8882-4 | 2Y45491.D | 80.0 | 71.0 | 84.0 |
| JB8882-5 | 2Y45492.D | 75.0 | 74.0 | 88.0 |
| OP57704-BS1 | 2Y45487.D | 80.0 | 80.0 | 99.0 |
| OP57704-MB1 | 2Y45486.D | 82.0 | 83.0 | 99.0 |
| OP57704-MS | 2Y45493.D | 73.0 | 74.0 | 92.0 |
| OP57704-MSD | 2Y45494.D | 73.0 | 75.0 | 92.0 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = o-Terphenyl | 36-144% |
| **S2** = Tetracosane-d50 | 32-138% |
| **S3** = 5a-Androstane | 31-136% |

(a) Recovery from GC signal #1

New Jersey
ACCUTEST LABORATORIES

07/02/12

# Technical Report for

Shell Oil Products US

URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

INC#97436977

Accutest Job Number: JB9973

Sampling Date: 06/27/12

Report to:

URS Corporation
12420 Milestone Center Drive Suite 150
Germantown, MD 20876
jenna_anthony@urscorp.com; adriane_rogers@urscorp.com;
cory.lavoie@urs.com
ATTN: Jenna Anthony

Total number of pages in report: **45**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul Ioannidis
Lab Director

Client Service contact: Marty Vitanza 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.



Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

# Table of Contents

-1-

**Section 1: Sample Summary** ..... **3**
**Section 2: Case Narrative/Conformance Summary** ..... **4**
**Section 3: Sample Results** ..... **5**
**3.1:** JB9973-1: 137675-OFFSITE-EFFLUENT ..... 6
**3.2:** JB9973-2: 137675-OFFSITE-MID3 ..... 9
**3.3:** JB9973-3: 137675-OFFSITE-MID2 ..... 12
**3.4:** JB9973-4: 137675-OFFSITE-MID1 ..... 15
**3.5:** JB9973-5: 137675-OFFSITE-INFLUENT ..... 18
**Section 4: Misc. Forms** ..... **21**
**4.1:** Chain of Custody ..... 22
**Section 5: GC/MS Volatiles - QC Data Summaries** ..... **24**
**5.1:** Method Blank Summary ..... 25
**5.2:** Blank Spike Summary ..... 27
**5.3:** Matrix Spike/Matrix Spike Duplicate Summary ..... 29
**5.4:** Instrument Performance Checks (BFB) ..... 31
**5.5:** Surrogate Recovery Summaries ..... 34
**Section 6: GC Volatiles - QC Data Summaries** ..... **35**
**6.1:** Method Blank Summary ..... 36
**6.2:** Blank Spike Summary ..... 38
**6.3:** Matrix Spike/Matrix Spike Duplicate Summary ..... 39
**6.4:** Surrogate Recovery Summaries ..... 40
**Section 7: GC Semi-volatiles - QC Data Summaries** ..... **41**
**7.1:** Method Blank Summary ..... 42
**7.2:** Blank Spike Summary ..... 43
**7.3:** Matrix Spike/Matrix Spike Duplicate Summary ..... 44
**7.4:** Surrogate Recovery Summaries ..... 45

Accutest Laboratories

# Sample Summary

Shell Oil Products US

**Job No:** JB9973

URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD
Project No: INC#97436977

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| JB9973-1 | 06/27/12 | 12:00 | RS | 06/28/12 | AQ | Effluent | 137675-OFFSITE-EFFLUENT |
| JB9973-2 | 06/27/12 | 12:05 | RS | 06/28/12 | AQ | Ground Water | 137675-OFFSITE-MID3 |
| JB9973-3 | 06/27/12 | 12:10 | RS | 06/28/12 | AQ | Ground Water | 137675-OFFSITE-MID2 |
| JB9973-4 | 06/27/12 | 12:15 | RS | 06/28/12 | AQ | Ground Water | 137675-OFFSITE-MID1 |
| JB9973-5 | 06/27/12 | 12:30 | RS | 06/28/12 | AQ | Influent | 137675-OFFSITE-INFLUENT |

# CASE NARRATIVE / CONFORMANCE SUMMARY

| | | | |
|---|---|---|---|
| **Client:** | Shell Oil Products US | **Job No** | JB9973 |
| **Site:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Sprin | **Report Date** | 7/2/2012 3:09:24 PM |

On 06/28/2012, 5 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 2.8 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB9973 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

## Volatiles by GCMS By Method SW846 8260B

**Matrix:** AQ **Batch ID:** V2D4569

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB9973-2MS, JB9973-2MSD were used as the QC samples indicated.

**Matrix:** AQ **Batch ID:** V2D4570

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB10007-5MS, JB10007-5MSD were used as the QC samples indicated.

## Volatiles by GC By Method SW846 8015C

**Matrix:** AQ **Batch ID:** GUV3913

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB9613-1MS, JB9613-1MSD were used as the QC samples indicated.

## Extractables by GC By Method SW846 8015C

**Matrix:** AQ **Batch ID:** OP57971

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB9872-3MS, JB9872-3MSD were used as the QC samples indicated.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

New Jersey

ACCUTEST LABORATORIES



## Sample Results

Report of Analysis

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-EFFLUENT | | |
| **Lab Sample ID:** | JB9973-1 | **Date Sampled:** | 06/27/12 |
| **Matrix:** | AQ - Effluent | **Date Received:** | 06/28/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2D110607.D | 1 | 06/29/12 | ET | n/a | n/a | V2D4569 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**Purgeable Aromatics, MTBE**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | 1.0 | 0.24 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.23 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.23 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.24 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.16 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 110% | | 81-121% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 109% | | 74-127% |
| 2037-26-5 | Toluene-D8 | 102% | | 80-122% |
| 460-00-4 | 4-Bromofluorobenzene | 101% | | 78-116% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-EFFLUENT | | |
| **Lab Sample ID:** | JB9973-1 | **Date Sampled:** | 06/27/12 |
| **Matrix:** | AQ - Effluent | **Date Received:** | 06/28/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV99326.D | 1 | 06/28/12 | XPL | n/a | n/a | GUV3913 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.040 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 75% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-EFFLUENT | | |
| **Lab Sample ID:** | JB9973-1 | **Date Sampled:** | 06/27/12 |
| **Matrix:** | AQ - Effluent | **Date Received:** | 06/28/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 5Y3677.D | 1 | 06/29/12 | CS | 06/28/12 | OP57971 | G5Y128 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 920 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.11 | 0.0038 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 59% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 75% | | 32-138% |
| 438-22-2 | 5a-Androstane | 104% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-MID3 | | |
| **Lab Sample ID:** | JB9973-2 | **Date Sampled:** | 06/27/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/28/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2D110604.D | 1 | 06/29/12 | ET | n/a | n/a | V2D4569 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**Purgeable Aromatics, MTBE**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | 1.0 | 0.24 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.23 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.23 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.24 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.16 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 107% | | 81-121% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 108% | | 74-127% |
| 2037-26-5 | Toluene-D8 | 102% | | 80-122% |
| 460-00-4 | 4-Bromofluorobenzene | 101% | | 78-116% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-MID3 | | |
| **Lab Sample ID:** | JB9973-2 | **Date Sampled:** | 06/27/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/28/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV99327.D | 1 | 06/28/12 | XPL | n/a | n/a | GUV3913 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.040 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 75% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-MID3 | | |
| **Lab Sample ID:** | JB9973-2 | **Date Sampled:** | 06/27/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/28/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 5Y3678.D | 1 | 06/29/12 | CS | 06/28/12 | OP57971 | G5Y128 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 920 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.11 | 0.0038 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 60% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 75% | | 32-138% |
| 438-22-2 | 5a-Androstane | 102% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-MID2 | | |
| **Lab Sample ID:** | JB9973-3 | **Date Sampled:** | 06/27/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/28/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2D110605.D | 1 | 06/29/12 | ET | n/a | n/a | V2D4569 |
| Run #2 | 2D110641.D | 10 | 06/30/12 | ET | n/a | n/a | V2D4570 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**Purgeable Aromatics, MTBE**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | 1.0 | 0.24 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.23 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.23 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.24 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 271 [a] | 10 | 1.6 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 104% | 107% | 81-121% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 104% | 106% | 74-127% |
| 2037-26-5 | Toluene-D8 | 103% | 102% | 80-122% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | 100% | 78-116% |

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-MID2 | | |
| **Lab Sample ID:** | JB9973-3 | **Date Sampled:** | 06/27/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/28/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV99328.D | 1 | 06/28/12 | XPL | n/a | n/a | GUV3913 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 0.381 | 0.20 | 0.040 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 75% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-MID2 | | |
| **Lab Sample ID:** | JB9973-3 | **Date Sampled:** | 06/27/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/28/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 5Y3679.D | 1 | 06/29/12 | CS | 06/28/12 | OP57971 | G5Y128 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 910 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.11 | 0.0038 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 62% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 76% | | 32-138% |
| 438-22-2 | 5a-Androstane | 106% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-MID1 | | |
| **Lab Sample ID:** | JB9973-4 | **Date Sampled:** | 06/27/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/28/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2D110606.D | 1 | 06/29/12 | ET | n/a | n/a | V2D4569 |
| Run #2 | 2D110642.D | 10 | 06/30/12 | ET | n/a | n/a | V2D4570 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**Purgeable Aromatics, MTBE**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | 1.0 | 0.24 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.23 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.23 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.24 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 800 [a] | 10 | 1.6 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 113% | 107% | 81-121% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 117% | 105% | 74-127% |
| 2037-26-5 | Toluene-D8 | 104% | 102% | 80-122% |
| 460-00-4 | 4-Bromofluorobenzene | 103% | 98% | 78-116% |

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-MID1 | | |
| **Lab Sample ID:** | JB9973-4 | **Date Sampled:** | 06/27/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/28/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV99329.D | 1 | 06/28/12 | XPL | n/a | n/a | GUV3913 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 0.923 | 0.20 | 0.040 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 75% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-MID1 | | |
| **Lab Sample ID:** | JB9973-4 | **Date Sampled:** | 06/27/12 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/28/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 5Y3680.D | 1 | 06/29/12 | CS | 06/28/12 | OP57971 | G5Y128 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 910 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.11 | 0.0038 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 63% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 78% | | 32-138% |
| 438-22-2 | 5a-Androstane | 106% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-INFLUENT | | |
| **Lab Sample ID:** | JB9973-5 | **Date Sampled:** | 06/27/12 |
| **Matrix:** | AQ - Influent | **Date Received:** | 06/28/12 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2D110608.D | 1 | 06/29/12 | ET | n/a | n/a | V2D4569 |
| Run #2 | 2D110643.D | 20 | 06/30/12 | ET | n/a | n/a | V2D4570 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**Purgeable Aromatics, MTBE**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | 6.6 | 1.0 | 0.24 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.23 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.23 | ug/l | |
| 1330-20-7 | Xylene (total) | 0.33 | 1.0 | 0.24 | ug/l | J |
| 1634-04-4 | Methyl Tert Butyl Ether | 2260 [a] | 20 | 3.3 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 107% | 107% | 81-121% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 106% | 105% | 74-127% |
| 2037-26-5 | Toluene-D8 | 103% | 102% | 80-122% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | 99% | 78-116% |

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-INFLUENT | | |
| **Lab Sample ID:** | JB9973-5 | **Date Sampled:** | 06/27/12 |
| **Matrix:** | AQ - Influent | **Date Received:** | 06/28/12 |
| **Method:** | SW846 8015C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | UV99330.D | 1 | 06/28/12 | XPL | n/a | n/a | GUV3913 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 2.84 | 0.20 | 0.040 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 75% | | 68-114% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 137675-OFFSITE-INFLUENT | | |
| **Lab Sample ID:** | JB9973-5 | **Date Sampled:** | 06/27/12 |
| **Matrix:** | AQ - Influent | **Date Received:** | 06/28/12 |
| **Method:** | SW846 8015C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 5Y3681.D | 1 | 06/29/12 | CS | 06/28/12 | OP57971 | G5Y128 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 860 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.12 | 0.0041 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 64% | | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 80% | | 32-138% |
| 438-22-2 | 5a-Androstane | 108% | | 31-136% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey
ACCUTEST LABORATORIES



# Misc. Forms

## Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

# Shell Oil Products Chain Of Custody Record

URS

LAB (LOCATION)
- [x] ACCUTEST ( GW )
- [ ] CALSCIENCE ( )
- [ ] TESTAMERICA ( )
- [ ] Other ( )

Lab Vendor # 1813640 (Accutest)

Please Check Appropriate Box:
- [x] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [ ] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER

Print Bill To Contact Name: Adriane Rogers

PO #

INCIDENT # (ENV SERVICES): 9 7 4 3 6 9 7 7

SAP #: 1 3 7 6 7 5

[ ] CHECK IF NO INCIDENT # APPLIES

DATE: 6-27-12

Page 1 of 1

SAMPLING COMPANY: URS CORPORATION

LOG CODE:

ADDRESS: 12420 Milestone Center Drive Suite 150, Germantown, MD 20876

PROJECT CONTACT (Hardcopy or PDF Report to): Adriane Rogers

TELEPHONE: 301-820-3000

FAX: 301-820-3409

Bill To Contact E-MAIL: adriane.rogers@urs.com

SITE ADDRESS: Street and City: 15541 New Hampshire Avenue, Silver Spring

State: MD

GLOBAL ID NO.:

EDF DELIVERABLE TO (Name, Company, Office Location): Adriane Rogers

PHONE NO.: 301-820-3241

E-MAIL: adriane.rogers@urs.com

CONSULTANT PROJECT NO.: 137675

SAMPLED NAME(S) (Print): Roderick Sample

LAB USE ONLY: JB9973

TURNAROUND TIME (CALENDAR DAYS):
- [ ] STANDARD (14 DAY)
- [ ] 5 DAYS
- [x] 3 DAYS
- [ ] 2 DAYS
- [ ] 24 HOURS
- [ ] RESULTS NEEDED ON WEEKEND

- [ ] LA - RWQCB REPORT FORMAT
- [ ] UST AGENCY:

DELIVERABLES: [ ] LEVEL 1 [x] LEVEL 2 [ ] LEVEL 3 [ ] LEVEL 4 [ ] OTHER (SPECIFY)

TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES:
- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [ ] RECEIPT VERIFICATION REQUESTED
- [ ] PROVIDE LEDD DISK

REQUESTED ANALYSIS

| LAB USE ONLY | Field Sample Identification | SAMPLING TIME (~~DATE~~) | SAMPLING DATE (~~TIME~~) | MATRIX | PRESERVATIVE HCL | HNO3 | H2SO4 | NONE | OTHER | NO. OF CONT. | BTEX, MTBE (8260B) | TPH-DRO (Method 8015) | TPH-GRO (Method 8015) | Container PID Readings or Laboratory Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -1 | 137675 - Offsite - Effluent | 12:00 | 6-27-12 | GW | x | | | | | 7 | X | X | X | |
| -2 | 137675 - Offsite - Mid3 | 12:05 | ↓ | GW | x | | | | | 7 | X | X | X | GET 2155 |
| -3 | 137675 - Offsite - Mid2 | 12:10 | | GW | x | | | | | 7 | X | X | X | |
| -4 | 137675 - Offsite - Mid1 | 12:15 | | GW | x | | | | | 7 | X | X | X | |
| -5 | 137675 - Offsite - Influent | 12:20 | | GW | x | | | | | 7 | X | X | X | |

FIELD NOTES:

TEMPERATURE ON RECEIPT C°: 2.8°C IR

| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
|---|---|---|---|
| | Fedex | | |
| Fedex | | | |
| | | 6/28/12 | 10:00 |
| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |

TVX #8986 1143 2280

1B

05/2/06 Revision

4.1

4

**JB9973: Chain of Custody**
**Page 1 of 2**

# Accutest Laboratories Sample Receipt Summary

**Accutest Job Number:** JB9973 **Client:** **Project:**

**Date / Time Received:** 6/28/2012 **Delivery Method:** **Airbill #'s:**

**Cooler Temps (Initial/Adjusted):** #1: (2.8/2.8); 0

| Cooler Security | Y | N | | Y | N |
|---|---|---|---|---|---|
| 1. Custody Seals Present: | ☑ | ☐ | 3. COC Present: | ☑ | ☐ |
| 2. Custody Seals Intact: | ☑ | ☐ | 4. Smpl Dates/Time OK | ☑ | ☐ |

| Cooler Temperature | Y | N |
|---|---|---|
| 1. Temp criteria achieved: | ☑ | ☐ |
| 2. Cooler temp verification: | | |
| 3. Cooler media: | Ice (Bag) | |
| 4. No. Coolers: | 1 | |

| Quality Control Preservation | Y | N | N/A |
|---|---|---|---|
| 1. Trip Blank present / cooler: | ☐ | ☑ | ☐ |
| 2. Trip Blank listed on COC: | ☐ | ☑ | ☐ |
| 3. Samples preserved properly: | ☑ | ☐ | |
| 4. VOCs headspace free: | ☑ | ☐ | ☐ |

| Sample Integrity - Documentation | Y | N |
|---|---|---|
| 1. Sample labels present on bottles: | ☑ | ☐ |
| 2. Container labeling complete: | ☑ | ☐ |
| 3. Sample container label / COC agree: | ☑ | ☐ |

| Sample Integrity - Condition | Y | N |
|---|---|---|
| 1. Sample recvd within HT: | ☑ | ☐ |
| 2. All containers accounted for: | ☑ | ☐ |
| 3. Condition of sample: | Intact | |

| Sample Integrity - Instructions | Y | N | N/A |
|---|---|---|---|
| 1. Analysis requested is clear: | ☑ | ☐ | |
| 2. Bottles received for unspecified tests | ☐ | ☑ | |
| 3. Sufficient volume recvd for analysis: | ☑ | ☐ | |
| 4. Compositing instructions clear: | ☐ | ☐ | ☑ |
| 5. Filtering instructions clear: | ☐ | ☐ | ☑ |

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

**JB9973: Chain of Custody**
**Page 2 of 2**

New Jersey
ACCUTEST LABORATORIES



# GC/MS Volatiles

## QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

# Method Blank Summary



**Job Number:** JB9973
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2D4569-MB | 2D110601.D | 1 | 06/29/12 | ET | n/a | n/a | V2D4569 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB9973-1, JB9973-2, JB9973-3, JB9973-4, JB9973-5

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | 1.0 | 0.24 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.23 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.16 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.23 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.24 | ug/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 109% | 81-121% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 109% | 74-127% |
| 2037-26-5 | Toluene-D8 | 103% | 80-122% |
| 460-00-4 | 4-Bromofluorobenzene | 101% | 78-116% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---|---|---|---|---|---|
| | Total TIC, Volatile | | 0 | ug/l | |

# Method Blank Summary



**Job Number:** JB9973
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2D4570-MB | 2D110623.D | 1 | 06/30/12 | ET | n/a | n/a | V2D4570 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB9973-3, JB9973-4, JB9973-5

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.16 | ug/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 103% | 81-121% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 99% | 74-127% |
| 2037-26-5 | Toluene-D8 | 102% | 80-122% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | 78-116% |

# Blank Spike Summary



**Job Number:** JB9973
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2D4569-BS | 2D110602.D | 1 | 06/29/12 | ET | n/a | n/a | V2D4569 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB9973-1, JB9973-2, JB9973-3, JB9973-4, JB9973-5

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | 50 | 46.3 | 93 | 79-116 |
| 100-41-4 | Ethylbenzene | 50 | 46.9 | 94 | 81-118 |
| 1634-04-4 | Methyl Tert Butyl Ether | 100 | 96.6 | 96 | 77-120 |
| 108-88-3 | Toluene | 50 | 47.2 | 94 | 82-119 |
| 1330-20-7 | Xylene (total) | 150 | 139 | 93 | 82-119 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 107% | 81-121% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 102% | 74-127% |
| 2037-26-5 | Toluene-D8 | 102% | 80-122% |
| 460-00-4 | 4-Bromofluorobenzene | 95% | 78-116% |

* = Outside of Control Limits.

# Blank Spike Summary



**Job Number:** JB9973
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2D4570-BS | 2D110624.D | 1 | 06/30/12 | ET | n/a | n/a | V2D4570 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB9973-3, JB9973-4, JB9973-5

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 1634-04-4 | Methyl Tert Butyl Ether | 100 | 95.4 | 95 | 77-120 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 104% | 81-121% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 96% | 74-127% |
| 2037-26-5 | Toluene-D8 | 100% | 80-122% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | 78-116% |

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB9973
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB9973-2MS | 2D110610.D | 1 | 06/29/12 | ET | n/a | n/a | V2D4569 |
| JB9973-2MSD | 2D110611.D | 1 | 06/29/12 | ET | n/a | n/a | V2D4569 |
| JB9973-2 | 2D110604.D | 1 | 06/29/12 | ET | n/a | n/a | V2D4569 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB9973-1, JB9973-2, JB9973-3, JB9973-4, JB9973-5

| CAS No. | Compound | JB9973-2 ug/l | Q | Spike ug/l | MS ug/l | MS % | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 50 | 44.8 | 90 | 44.3 | 89 | 1 | 48-138/11 |
| 100-41-4 | Ethylbenzene | ND | | 50 | 44.8 | 90 | 44.6 | 89 | 0 | 48-139/11 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 50 | 53.8 | 108 | 52.2 | 104 | 3 | 63-133/11 |
| 108-88-3 | Toluene | ND | | 50 | 45.2 | 90 | 45.1 | 90 | 0 | 55-138/11 |
| 1330-20-7 | Xylene (total) | ND | | 150 | 131 | 87 | 133 | 89 | 2 | 51-139/11 |

| CAS No. | Surrogate Recoveries | MS | MSD | JB9973-2 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 115% | 108% | 107% | 81-121% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 117% | 106% | 108% | 74-127% |
| 2037-26-5 | Toluene-D8 | 104% | 102% | 102% | 80-122% |
| 460-00-4 | 4-Bromofluorobenzene | 101% | 100% | 101% | 78-116% |

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB9973
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB10007-5MS | 2D110625.D | 50 | 06/30/12 | ET | n/a | n/a | V2D4570 |
| JB10007-5MSD | 2D110626.D | 50 | 06/30/12 | ET | n/a | n/a | V2D4570 |
| JB10007-5 | 2D110628.D | 50 | 06/30/12 | ET | n/a | n/a | V2D4570 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

JB9973-3, JB9973-4, JB9973-5

| CAS No. | Compound | JB10007-5 ug/l | Q | Spike ug/l | MS ug/l | MS % | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 2500 | 2480 | 99 | 2440 | 98 | 2 | 63-133/11 |

| CAS No. | Surrogate Recoveries | MS | MSD | JB10007-5 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 107% | 107% | 107% | 81-121% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 101% | 98% | 103% | 74-127% |
| 2037-26-5 | Toluene-D8 | 100% | 100% | 103% | 80-122% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | 99% | 98% | 78-116% |

* = Outside of Control Limits.

# Instrument Performance Check (BFB)



**Job Number:** JB9973
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Sample:** V2D4502-BFB
**Lab File ID:** 2D109100.D
**Instrument ID:** GCMS2D
**Injection Date:** 05/15/12
**Injection Time:** 11:45



| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 14066 | 17.4 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 36093 | 44.7 | | Pass |
| 95 | Base peak, 100% relative abundance | 80723 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 5319 | 6.59 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 78781 | 97.6 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 6148 | 7.62 | (7.80) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 77240 | 95.7 | (98.0) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 5189 | 6.43 | (6.72) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2D4502-IC4502 | 2D109101.D | 05/15/12 | 12:21 | 00:36 | Initial cal 0.5 |
| V2D4502-IC4502 | 2D109103.D | 05/15/12 | 13:22 | 01:37 | Initial cal 2 |
| ZZZZZZ | 2D109103A.D | 05/15/12 | 13:22 | 01:37 | (unrelated sample) |
| V2D4502-IC4502 | 2D109104.D | 05/15/12 | 13:52 | 02:07 | Initial cal 5 |
| V2D4502-IC4502 | 2D109105.D | 05/15/12 | 14:22 | 02:37 | Initial cal 10 |
| V2D4502-IC4502 | 2D109106.D | 05/15/12 | 15:04 | 03:19 | Initial cal 20 |
| V2D4502-ICC4502 | 2D109107.D | 05/15/12 | 15:34 | 03:49 | Initial cal 50 |
| V2D4502-IC4502 | 2D109108.D | 05/15/12 | 16:04 | 04:19 | Initial cal 100 |
| V2D4502-IC4502 | 2D109109.D | 05/15/12 | 16:33 | 04:48 | Initial cal 200 |
| V2D4502-IC4502 | 2D109112.D | 05/15/12 | 18:03 | 06:18 | Initial cal 1 |
| V2D4502-ICV4502 | 2D109113.D | 05/15/12 | 18:33 | 06:48 | Initial cal verification 50 |
| ZZZZZZ | 2D109117.D | 05/15/12 | 20:33 | 08:48 | (unrelated sample) |
| ZZZZZZ | 2D109118.D | 05/15/12 | 21:02 | 09:17 | (unrelated sample) |

# Instrument Performance Check (BFB)



**Job Number:** JB9973
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Sample:** V2D4569-BFB
**Lab File ID:** 2D110598.D
**Instrument ID:** GCMS2D
**Injection Date:** 06/29/12
**Injection Time:** 11:06



| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 20440 | 17.7 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 54069 | 46.9 | | Pass |
| 95 | Base peak, 100% relative abundance | 115306 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 7337 | 6.36 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 113656 | 98.6 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 8603 | 7.46 | (7.57) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 112098 | 97.2 | (98.6) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 7291 | 6.32 | (6.50) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2D4569-CC4502 | 2D110599.D | 06/29/12 | 11:35 | 00:29 | Continuing cal 20 |
| V2D4569-MB | 2D110601.D | 06/29/12 | 12:58 | 01:52 | Method Blank |
| V2D4569-BS | 2D110602.D | 06/29/12 | 13:40 | 02:34 | Blank Spike |
| ZZZZZZ | 2D110603.D | 06/29/12 | 14:20 | 03:14 | (unrelated sample) |
| JB9973-2 | 2D110604.D | 06/29/12 | 14:51 | 03:45 | 137675-OFFSITE-MID3 |
| JB9973-3 | 2D110605.D | 06/29/12 | 15:21 | 04:15 | 137675-OFFSITE-MID2 |
| JB9973-4 | 2D110606.D | 06/29/12 | 15:51 | 04:45 | 137675-OFFSITE-MID1 |
| JB9973-1 | 2D110607.D | 06/29/12 | 16:22 | 05:16 | 137675-OFFSITE-EFFLUENT |
| JB9973-5 | 2D110608.D | 06/29/12 | 16:52 | 05:46 | 137675-OFFSITE-INFLUENT |
| ZZZZZZ | 2D110609.D | 06/29/12 | 17:23 | 06:17 | (unrelated sample) |
| JB9973-2MS | 2D110610.D | 06/29/12 | 17:53 | 06:47 | Matrix Spike |
| JB9973-2MSD | 2D110611.D | 06/29/12 | 18:23 | 07:17 | Matrix Spike Duplicate |
| ZZZZZZ | 2D110613.D | 06/29/12 | 19:23 | 08:17 | (unrelated sample) |
| ZZZZZZ | 2D110615.D | 06/29/12 | 20:23 | 09:17 | (unrelated sample) |
| ZZZZZZ | 2D110616.D | 06/29/12 | 20:53 | 09:47 | (unrelated sample) |
| ZZZZZZ | 2D110617.D | 06/29/12 | 21:23 | 10:17 | (unrelated sample) |
| ZZZZZZ | 2D110618.D | 06/29/12 | 21:53 | 10:47 | (unrelated sample) |
| ZZZZZZ | 2D110619.D | 06/29/12 | 22:23 | 11:17 | (unrelated sample) |

# Instrument Performance Check (BFB)



**Job Number:** JB9973
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Sample:** V2D4570-BFB
**Lab File ID:** 2D110620.D
**Instrument ID:** GCMS2D
**Injection Date:** 06/29/12
**Injection Time:** 22:53



| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 22442 | 16.9 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 59792 | 45.0 | | Pass |
| 95 | Base peak, 100% relative abundance | 132976 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 9028 | 6.79 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 135042 | 101.6 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 10112 | 7.60 | (7.49) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 132706 | 99.8 | (98.3) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 8595 | 6.46 | (6.48) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2D4570-CC4502 | 2D110621.D | 06/29/12 | 23:23 | 00:30 | Continuing cal 50 |
| V2D4570-MB | 2D110623.D | 06/30/12 | 00:23 | 01:30 | Method Blank |
| V2D4570-BS | 2D110624.D | 06/30/12 | 00:52 | 01:59 | Blank Spike |
| JB10007-5MS | 2D110625.D | 06/30/12 | 01:22 | 02:29 | Matrix Spike |
| JB10007-5MSD | 2D110626.D | 06/30/12 | 01:52 | 02:59 | Matrix Spike Duplicate |
| JB10007-5 | 2D110628.D | 06/30/12 | 02:51 | 03:58 | (used for QC only; not part of job JB9973) |
| ZZZZZZ | 2D110629.D | 06/30/12 | 03:21 | 04:28 | (unrelated sample) |
| ZZZZZZ | 2D110631.D | 06/30/12 | 04:20 | 05:27 | (unrelated sample) |
| ZZZZZZ | 2D110632.D | 06/30/12 | 04:50 | 05:57 | (unrelated sample) |
| ZZZZZZ | 2D110637.D | 06/30/12 | 07:18 | 08:25 | (unrelated sample) |
| ZZZZZZ | 2D110638.D | 06/30/12 | 07:48 | 08:55 | (unrelated sample) |
| ZZZZZZ | 2D110639.D | 06/30/12 | 08:17 | 09:24 | (unrelated sample) |
| ZZZZZZ | 2D110640.D | 06/30/12 | 08:47 | 09:54 | (unrelated sample) |
| JB9973-3 | 2D110641.D | 06/30/12 | 09:17 | 10:24 | 137675-OFFSITE-MID2 |
| JB9973-4 | 2D110642.D | 06/30/12 | 09:47 | 10:54 | 137675-OFFSITE-MID1 |
| JB9973-5 | 2D110643.D | 06/30/12 | 10:17 | 11:24 | 137675-OFFSITE-INFLUENT |

# Volatile Surrogate Recovery Summary



**Job Number:** JB9973
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Method:** SW846 8260B **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 | S2 | S3 | S4 |
|---|---|---|---|---|---|
| JB9973-1 | 2D110607.D | 110.0 | 109.0 | 102.0 | 101.0 |
| JB9973-2 | 2D110604.D | 107.0 | 108.0 | 102.0 | 101.0 |
| JB9973-3 | 2D110641.D | 107.0 | 106.0 | 102.0 | 100.0 |
| JB9973-3 | 2D110605.D | 104.0 | 104.0 | 103.0 | 99.0 |
| JB9973-4 | 2D110642.D | 107.0 | 105.0 | 102.0 | 98.0 |
| JB9973-4 | 2D110606.D | 113.0 | 117.0 | 104.0 | 103.0 |
| JB9973-5 | 2D110643.D | 107.0 | 105.0 | 102.0 | 99.0 |
| JB9973-5 | 2D110608.D | 107.0 | 106.0 | 103.0 | 99.0 |
| JB10007-5MS | 2D110625.D | 107.0 | 101.0 | 100.0 | 99.0 |
| JB10007-5MSD | 2D110626.D | 107.0 | 98.0 | 100.0 | 99.0 |
| JB9973-2MS | 2D110610.D | 115.0 | 117.0 | 104.0 | 101.0 |
| JB9973-2MSD | 2D110611.D | 108.0 | 106.0 | 102.0 | 100.0 |
| V2D4569-BS | 2D110602.D | 107.0 | 102.0 | 102.0 | 95.0 |
| V2D4569-MB | 2D110601.D | 109.0 | 109.0 | 103.0 | 101.0 |
| V2D4570-BS | 2D110624.D | 104.0 | 96.0 | 100.0 | 97.0 |
| V2D4570-MB | 2D110623.D | 103.0 | 99.0 | 102.0 | 99.0 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = Dibromofluoromethane | 81-121% |
| **S2** = 1,2-Dichloroethane-D4 | 74-127% |
| **S3** = Toluene-D8 | 80-122% |
| **S4** = 4-Bromofluorobenzene | 78-116% |

New Jersey

ACCUTEST LABORATORIES



# GC Volatiles

## QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

# Method Blank Summary



**Job Number:** JB9973
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| GUV3913-MB3 | UV99325.D | 1 | 06/28/12 | XPL | n/a | n/a | GUV3913 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB9973-1, JB9973-2, JB9973-3, JB9973-4, JB9973-5

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.040 | mg/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 76% | 68-114% |

# Method Blank Summary



**Job Number:** JB9973
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| GUV3913-MB1 | UV99309.D | 1 | 06/28/12 | XPL | n/a | n/a | GUV3913 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

GUV3913-BS, JB9613-1MS, JB9613-1MSD

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 0.20 | 0.040 | mg/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 76% | 68-114% |

# Blank Spike Summary



**Job Number:** JB9973
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| GUV3913-BS | UV99310.D | 1 | 06/28/12 | XPL | n/a | n/a | GUV3913 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB9973-1, JB9973-2, JB9973-3, JB9973-4, JB9973-5

| CAS No. | Compound | Spike mg/l | BSP mg/l | BSP % | Limits |
|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 8 | 8.49 | 106 | 72-125 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 106% | 68-114% |

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB9973
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JB9613-1MS | UV99317.D | 1 | 06/28/12 | XPL | n/a | n/a | GUV3913 |
| JB9613-1MSD | UV99318.D | 1 | 06/28/12 | XPL | n/a | n/a | GUV3913 |
| JB9613-1 | UV99311.D | 1 | 06/28/12 | XPL | n/a | n/a | GUV3913 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB9973-1, JB9973-2, JB9973-3, JB9973-4, JB9973-5

| CAS No. | Compound | JB9613-1 mg/l | Q | Spike mg/l | MS mg/l | MS % | MSD mg/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | | 8 | 7.41 | 93 | 7.33 | 92 | 1 | 46-131/20 |

| CAS No. | Surrogate Recoveries | MS | MSD | JB9613-1 | Limits |
|---|---|---|---|---|---|
| 98-08-8 | aaa-Trifluorotoluene | 93% | 93% | 77% | 68-114% |

* = Outside of Control Limits.

# Volatile Surrogate Recovery Summary



**Job Number:** JB9973
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Method:** SW846 8015C **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 [a] |
|---|---|---|
| JB9973-1 | UV99326.D | 75.0 |
| JB9973-2 | UV99327.D | 75.0 |
| JB9973-3 | UV99328.D | 75.0 |
| JB9973-4 | UV99329.D | 75.0 |
| JB9973-5 | UV99330.D | 75.0 |
| GUV3913-BS | UV99310.D | 106.0 |
| GUV3913-MB3 | UV99325.D | 76.0 |
| JB9613-1MS | UV99317.D | 93.0 |
| JB9613-1MSD | UV99318.D | 93.0 |
| GUV3913-MB1 | UV99309.D | 76.0 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = aaa-Trifluorotoluene | 68-114% |

(a) Recovery from GC signal #1

New Jersey
ACCUTEST LABORATORIES



# GC Semi-volatiles

## QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

# Method Blank Summary



**Job Number:** JB9973
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP57971-MB1 | 5Y3667.D | 1 | 06/28/12 | CS | 06/27/12 | OP57971 | G5Y127 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB9973-1, JB9973-2, JB9973-3, JB9973-4, JB9973-5

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | ND | 0.10 | 0.0035 | mg/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 84-15-1 | o-Terphenyl | 59% | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 75% | 32-138% |
| 438-22-2 | 5a-Androstane | 102% | 31-136% |

# Blank Spike Summary



**Job Number:** JB9973
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP57971-BS1 | 5Y3668.D | 1 | 06/28/12 | CS | 06/27/12 | OP57971 | G5Y127 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB9973-1, JB9973-2, JB9973-3, JB9973-4, JB9973-5

| CAS No. | Compound | Spike mg/l | BSP mg/l | BSP % | Limits |
|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | 1 | 0.870 | 87 | 15-111 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 84-15-1 | o-Terphenyl | 71% | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 77% | 32-138% |
| 438-22-2 | 5a-Androstane | 107% | 31-136% |

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JB9973
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP57971-MS | 5Y3670.D | 1 | 06/28/12 | CS | 06/28/12 | OP57971 | G5Y127 |
| OP57971-MSD | 5Y3671.D | 1 | 06/28/12 | CS | 06/28/12 | OP57971 | G5Y127 |
| JB9872-3 | 5Y3669.D | 1 | 06/28/12 | CS | 06/27/12 | OP57971 | G5Y127 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015C

JB9973-1, JB9973-2, JB9973-3, JB9973-4, JB9973-5

| CAS No. | Compound | JB9872-3 mg/l | Q | Spike mg/l | MS mg/l | MS % | MSD mg/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| | TPH-DRO (C10-C28) | 2.98 | | 2 | 4.46 | 74 | 4.86 | 94 | 9 | 23-160/31 |

| CAS No. | Surrogate Recoveries | MS | MSD | JB9872-3 | Limits |
|---|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 69% | 73% | 60% | 36-144% |
| 16416-32-3 | Tetracosane-d50 | 74% | 77% | 75% | 32-138% |
| 438-22-2 | 5a-Androstane | 102% | 108% | 101% | 31-136% |

* = Outside of Control Limits.

# Semivolatile Surrogate Recovery Summary



**Job Number:** JB9973
**Account:** SHELLWIC Shell Oil Products US
**Project:** URSMDG:SS#137675, 15541 New Hampshire Aveune, Silver Spring, MD

**Method:** SW846 8015C **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 [a] | S2 [a] | S3 [a] |
|---|---|---|---|---|
| JB9973-1 | 5Y3677.D | 59.0 | 75.0 | 104.0 |
| JB9973-2 | 5Y3678.D | 60.0 | 75.0 | 102.0 |
| JB9973-3 | 5Y3679.D | 62.0 | 76.0 | 106.0 |
| JB9973-4 | 5Y3680.D | 63.0 | 78.0 | 106.0 |
| JB9973-5 | 5Y3681.D | 64.0 | 80.0 | 108.0 |
| OP57971-BS1 | 5Y3668.D | 71.0 | 77.0 | 107.0 |
| OP57971-MB1 | 5Y3667.D | 59.0 | 75.0 | 102.0 |
| OP57971-MS | 5Y3670.D | 69.0 | 74.0 | 102.0 |
| OP57971-MSD | 5Y3671.D | 73.0 | 77.0 | 108.0 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = o-Terphenyl | 36-144% |
| **S2** = Tetracosane-d50 | 32-138% |
| **S3** = 5a-Androstane | 31-136% |

(a) Recovery from GC signal #1