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February 12, 2015

Mr. Jim Richmond
Maryland Department of Environment
Oil Control Program
1800 Washington Blvd. Suite 620
Baltimore, Maryland 21230-1719

AECOM Project #: 60144916

Subject: Fourth Quarter 2014 – Quarterly Monitoring Report
Compliance Reporting Date: February 15, 2014
7-Eleven Store No. 32785
125 Hanover Pike
Hampstead, MD
Facility ID No. 11266
Case No. 2006-0282-CL

Dear Mr. Richmond,

On behalf of 7-Eleven, Inc. (7-Eleven), AECOM has prepared the attached quarterly monitoring report for the above-referenced site. This report was prepared to meet the requirements set forth in the Consent Order between 7-Eleven and the Maryland Department of the Environment (MDE) dated March 21, 2011.

All ten on-site monitoring wells were sampled this period on December 3, 2014. The 7-Eleven on-site potable well was not sampled this period. The two tank field wells were gauged and were determined to be dry or had insufficient water for sampling.

The monitoring wells are gauged monthly and sampled quarterly; the tank field wells are gauged and sampled quarterly when sufficient water is present. The on-site potable well is sampled annually as approved by the MDE. This site is located within the “High Risk Groundwater Use Area”; however, the sampling exceeds the frequency requirements set forth in MDE’s Emergency Oil Pollution and Tank Management Regulations for sites located in a “High Risk Groundwater Use Area”, effective January 26, 2005.

As directed by MDE, AECOM installed a point-of-entry-treatment (POET) system on the 124 Hanover Pike potable well on May 27, 2010; AECOM currently samples the system bimonthly. No volatile organic compounds (VOCs), including methyl-tert-butyl ether (MTBE), have been detected above laboratory detection limits in the final effluent. Six carbon changes had been conducted prior to this quarter the most recent of which was conducted on December 28, 2012.

AECOM will continue to conduct quarterly sampling of the monitoring and tank field wells. The next scheduled event is for February 2014. Based on historical observations and analytical data, AECOM requested a change to annual sampling for the 7-Eleven potable well, which was subsequently, approved my MDE. However, AECOM sampled the 7-Eleven potable well in September 2014. Therefore, the next sampling event for the 7-Eleven potable well will be approximately September 2015.

During this monitoring period, AECOM maintained and operated the groundwater recovery system per the MDE approved Corrective Action Plan (CAP) with revisions. System startup occurred on October 8, 2013; monthly system performance reports were submitted to MDE in December 2013 and January and February 2014. During this quarter, the system was operable for 100% of the time.

If you have any questions, please contact the undersigned at (240) 565-6501.

Yours sincerely,

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Attachments:

Figure 1 – Groundwater Elevation Map – Shallow Wells, December 3, 2014
Figure 2 – Dissolved-Phase Hydrocarbon Concentration Map, December 3, 2014
Table 1 – Depth to Water and Groundwater Elevation of Monitoring Wells
Table 2 – Groundwater Analytical Results of Monitoring Well Sampling
Table 3 – 124 Hanover Pike Sampling Results
Table 4 - Residential Potable Well Sampling Results
Table 5 –Groundwater Remediation System Performance Data
Table 6 – Summary of Treatment System Analytical Results
Attachment A – Groundwater Laboratory Results – Monitoring Wells
Attachment B – MTBE Concentration Graphs-Over-Time
Attachment C – Residential Treatment and Non-Treatment Potable Well Lab Reports
Attachment D - Residential Treatment System Influent MTBE Concentrations Over Time
Attachment E – Groundwater Drawdown Graphs (Pumping Wells)
Attachment F – Groundwater Treatment System Laboratory Reports
Attachment G – Air Stripper Influent MTBE and TPH-GRO Concentration Graphs-Over-Time

cc: 7-Eleven Project File

QUARTERLY MONITORING REPORT- FOURTH QUARTER 2014
7-ELEVEN STORE NO. 32785
125 Hanover Pike
Hampstead, MD
Facility ID No. 11266
Case No. 2006-0282-CL
AECOM Project 60144916

Compliance Reporting Date – February 15, 2014

AECOM Contacts: John J. Canzeri, Project Manager
Marie Treiber, Regional Senior Project Manager

7-Eleven, Inc. Contact: Jose Rios, Manager Environmental Services

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CURRENT SITE STATUS

- The site is an active 7-Eleven convenience store and retail gasoline station.
- Currently, ten monitoring wells, two tank field wells, and four shallow injection wells are located on the site. The monitoring wells are gauged monthly and sampled quarterly; the tank field wells are gauged and sampled quarterly when sufficient water is present. The on-site potable well is sampled annually as directed by the MDE. The sampling exceeds the frequency requirements set forth in MDE's Emergency Oil Pollution and Tank Management Regulations for sites located in a "High Risk Groundwater Use Area". The shallow injection wells were used in an Enhanced Bio-Augmentation Pilot Test through November 2011.
- The potable well and treatment system at 124 Hanover Pike is sampled bimonthly and monthly at the directive of MDE.
- Per MDE-approved Corrective Action Plan (CAP) with revisions, AECOM began installation of the ex-situ groundwater extraction and treatment system at the site on August 19, 2013.
- AECOM conducted the remediation system startup and shakedown on October 8, 2013.

PAST ACTIVITIES

- Two USTs (RUL #1 and PUL #2) and associated UST system were installed at the site in March 2000.
- On July 7, 8 and 11, 2005, AECOM installed three monitoring wells (MW-1 through MW-3) at the site to meet the requirements set forth in MDE's Emergency Oil Pollution and Tank Management Regulations, effective January 26, 2005. COMAR 26.10.02.03-4 requires installation of a minimum of three monitoring wells outside of the UST tank field for release detection and determination of groundwater flow direction at the site.

- On September 15, 2005, AECOM submitted a Monitoring Well Installation and Observation Report to MDE. ENSR on behalf of 7-Eleven recommended the installation of two additional monitoring wells at the site based on the presence of elevated concentrations of MTBE in monitoring wells MW-1 and MW-3.

- On October 5, 2005, MDE issued a directive letter approving installation of two additional monitoring wells at the site. MDE requested a self-audit of the underground storage tank (UST) system. MDE also required completion of a receptor survey, including review of all well completion records within a ½-mile radius of the site. On November 18, 2005, 7-Eleven submitted to MDE the results of an UST system self audit conducted October 26, 2005.

- On November 21 and 22, 2005, AECOM installed two additional monitoring wells (MW-4 and MW-5) at the site.

- On January 26, 2005, AECOM submitted the results of the receptor survey to MDE.

- On August 25, 2006, MDE issued a directive letter requesting a Supplemental Work Plan, detailing a plan to define the extent of petroleum hydrocarbons in the soil and groundwater and to determine if there was any off-site migration of either liquid or dissolved-phase hydrocarbons. Further, the letter requested submittal of an Interim Corrective Action Plan (CAP), evaluating subsurface vapors in the vicinity of the active UST field, and determining the most efficient and effective means of reducing the vapors should they be present in the vicinity of the active UST field and on-site monitoring well MW-1.

- On October 13, 2006, AECOM submitted the Supplemental Work Plan and Interim CAP requested in MDE's August 25, 2006 directive letter. The Interim CAP included a discussion of potential remediation and mitigation of contamination at the site through soil vapor extraction (SVE), as requested by MDE, while the Supplemental Work Plan entailed the use of geoprobe direct push technology to install borings and collect soil and groundwater samples.

- On January 22, 2007, MDE issued an approval letter, indicating that they were in agreement with the proposed plans. Further, MDE requested several additional items, including an increase in frequency of groundwater sampling from a semi-annual schedule to a quarterly schedule for the on-site monitoring wells and tank field wells, with the on-site potable well to remain on the current semi-annual sampling schedule. All monitoring well and tank field well samples were to continue to be analyzed for full-suite VOCs via EPA Method 8260B (also including fuel oxygenates) and total petroleum hydrocarbons via EPA method 8015B (diesel and gasoline range organics). The potable samples were to continue to be analyzed for full-suite VOCs via EPA Method 524.2 (including fuel oxygenates).

- On February 20, 2007, AECOM submitted a request for modification to and/or postponement of MDE's increased scope requirements in light of the January 2007 sampling results, historical analytical data and the groundwater flow direction on site. Since sampling was initiated in July 2005, MTBE concentrations in the up-gradient well MW-1 steadily decreased from 31,000 ug/l to below laboratory detection limits in the January 2007 sampling event. Additionally, MTBE concentrations in all sampled wells were below the MDE guideline of 20 µg/l during the January 2007 event. ENSR proposed that current site monitoring be increased to quarterly (with the exception of the on-site potable well which would remain semi-annual), as recommended by MDE in their January 22, 2007 letter, and recommended delayed completion of a Site Investigation Work Plan and a Site Conceptual Model.

- On April 26, 2007, MDE issued a directive letter, temporarily delaying completion of a Site Investigation Work Plan and a Site Conceptual Model pending the results of the Interim CAP.

- On July 17, 2007, six off-site private supply wells were sampled at the request of MDE. The six

private supply wells were located in the immediate area of the 7-Eleven facility, including 114, 118, 123, 124, 130 and 135 Hanover Pike. MTBE was detected at concentrations of 0.6 micrograms-per-liter (μg/l), 2.9 μg/l, 44 μg/l and 0.6 μg/l at 114, 118, 124 and 135 Hanover Pike. MTBE was below laboratory detection limits at 123 and 130 Hanover Pike. All other VOCs, including BTEX, were non-detect (ND) in each of the private supply wells sampled.

- On July 30, 2007 a confirmation sample was collected from 124 Hanover Pike, per MDE directive. The analytical results indicated an MTBE concentration of 150 μg/l.

- On July 22, 2008, MDE issued a directive for a Corrective Action Plan (CAP). Based on discussions with the MDE the CAP was to be prepared after additional monitoring wells were installed and feasibility testing could be completed.

- A Delineation Work Plan for the installation of three additional monitoring wells was submitted to the MDE on August 15, 2008 and was approved October 7, 2008.

- On November 17-19, 2008, three monitoring wells (one shallow and two deep wells) were installed.

- On December 1 and 2, 2008, geophysical testing was performed on the two deep wells. This survey was conducted in order to better define the fracture orientation, evaluate water-bearing zones and evaluate remedial strategies.

- On March 23, 2009, AECOM reviewed MDE files related to the former Crown Station 142 (Case #2003-0376 CL) located at 201 Hanover Pike. Geologic and sampling data were reviewed for possible relationships to the project site.

- On March 27, 2009, AECOM submitted an Enhanced Bio-Augmentation Pilot Test Work Plan to MDE, including installation of four 2-inch injection wells, Inj-1 to Inj-4, in the vicinity of monitoring well MW-6.

- On August 7, 2009, MDE approved the Enhanced Bio-Augmentation Pilot Test Work Plan and requested sampling of 124 and 130 Hanover Pike potable wells (pre-, mid-, and post-monitoring period).

- On September 28 and 29, 2009, four 2” diameter injection wells (INJ-1 through INJ-4) were installed and developed in the area of MW-6, as proposed in the Enhanced Bio-Augmentation Pilot Test Work Plan.

- On October 22, 2009, conduits connecting the wells and to a future storage tank were installed, and the wells were completed with manholes. These wells and the piping system will be used to determine the feasibility of subsurface injection of bio-remediation products.

- On April 1, 2010, AECOM began bio-remediation injections as part of the Enhanced Bio-Augmentation Pilot Test; results are summarized in Bio-Augmentation Reports under separate cover.

- On May 27, 2010, per MDE, AECOM installed a carbon treatment system on the potable well located at 124 Hanover Pike.

- On June 1 through 3, 2010, AECOM installed two deep monitoring wells (MW-9 and MW-10). The wells were installed as part of the preparation of the Corrective Action Plan to help delineate the bedrock aquifer.

- On January 4, 2011, per discussions with MDE, AECOM installed an ISOC in well INJ-3, one of

the two injection wells (INJ-2 and INJ-3), to enhance the bioremediation activity at the site. An ISOC could not be placed into well INJ-2 due to frozen lines. In December 2010 through February 2011, bio-remediation injections were postponed due to freezing conditions.

- On March 21, 2011, MDE issued an Administrative Consent Order to 7-Eleven, detailing the regulatory-mandated activities and reporting schedules for the site.

- As directed by MDE in their June 7, 2011 correspondence, samples collected from the treatment system located at 124 Hanover Pike will be sampled for Nitrate and Nitrite via EPA method 353.3 and Orthophosphate via EPA method 365.2 in alternating months. Further, well MW-9 will be added to the monthly gauging and DO monitoring schedule effective immediately.

- On March 5, 2012, AECOM prepared and submitted a work plan to conduct a 48-hour continuous pump test from either monitoring well MW-8 or MW-9. It was approved by MDE on May 9, 2012. The approval letter indicated that no later than August 1, 2012, a comprehensive report explaining the results of the pumping test activities must be submitted, which also needed to include a revised schedule for the submittal/implementation of a CAP.

- On March 27, 2012, AECOM submitted a Notice of Intent (NOI) request for authorization to discharge treated groundwater under a general discharge permit, MDE approved this request on May 8, 2012.

- On May 14, 2012, AECOM, on behalf of 7-Eleven, sub mitted an application to the MD-SHA District 7 Office for a District Office (DO) permit to discharge groundwater treated on site into a stormwater retention pond located adjacent to the property. This request was approved in a directive letter dated August 9, 2012.

- On August 1, 2012, AECOM submitted a request for an extension of the submittal date for the Pumping Test Summary Report to September 3, 2012, which was subsequently approved by Jim Richmond of MD-SHA.

- As approved by MDE, the Maryland State Highway Administration (MD-SHA) District 7 Office, and as permitted by the District Office (DC), a 48-hour continuous pump test from monitoring well MW-10 was performed on October 26, 2012.

- On December 21, 2012, a Corrective Action Plan including the pump test results was submitted to MDE.

- On December 21, 2012, AECOM submitted the Corrective Action Plan Submitted to MDE.

- MDE approved the CAP in a letter dated February 20, 2013. AECOM was required to submit a contingency plan (within 45 days of the CAP Approval letter) which will outline the procedures under which operation of the groundwater remediation system will continue, in the event that site conditions change, which may require alternative methods of wastewater disposal.

- On May 1, 2013, AECOM submitted the contingency plan for approval.

- On October 8, 2013, AECOM performed the startup and shakedown of the groundwater remediation system.

- On May 6, 2014, SCE, under the oversight of AECOM, performed warranty repairs on the fittings associated with the equipment installed in well MW-9.

ACTIVITIES THIS PERIOD

Monitoring Period: October through December 2014

Site Visit(s): October 13 and 31; November 10 and 24; and December 3 and 29, 2014

Field Activities: Activities included monthly well gauging, quarterly well gauging and sampling of the monitoring and tank field wells, potable system sampling at 124 Hanover Pike, and ex-situ groundwater extraction system operation and maintenance.

Depth-to-Water: On December 3, 2014, depth-to-water in wells not under pumping conditions ranged from 23.14 feet below ground surface (bgs) in well MW-3 to 30.83 feet bgs in wells MW-7. In the three pumping wells (MW-8, MW-9 and MW-10), depth-to-water ranged from 119.50 feet bgs in well MW-8 to 146.55 feet bgs in well MW-9. Groundwater elevation maps for the shallow wells are shown as **Figure 1** and historical groundwater elevations are listed in **Table 1**. Bedrock and shallow groundwater flow is historically toward the southeast; shallow groundwater flow was to the southeast during this reporting period. A groundwater elevation map was not created for the bedrock wells due to three of the wells working under pumping conditions.

Liquid-Phase Hydrocarbons: No LPH has been observed at the site.

Number of Wells/ Wells Sampled: The ten on-site monitoring wells were sampled this period on December 3, 2014. The two tank field wells could not be sampled because they were either dry or lacked sufficient water for sampling (**Table 2, Figure 2** and **Attachment A**).

No residential wells without POET systems were sampled this quarter. Historical analytical results are provided in **Table 3**. Samples were collected from the POET system of the potable well servicing 124 Hanover Pike this period on October 31, 2014. Historical analytical results are provided in **Table 4**.

ANALYTICAL SUMMARY

Groundwater

Groundwater samples were collected on December 3, 2014 from the ten on-site monitoring wells. Groundwater samples from the wells were analyzed for total volatile organic compounds (VOCs) and oxygenates, including BTEX, MTBE, tert-Butyl alcohol (TBA) and tert-Amyl methyl ether (TAME) by EPA Method 8260, and TPH-GRO via EPA Method 8015.

Analysis of groundwater samples collected from the ten monitoring wells did not reveal dissolved-phase concentrations above laboratory detection limits for benzene or BTEX.

A dissolved-phase MTBE concentration of 16 µg/l was reported in monitoring well MW-8 (pumping well), which is a decrease from the last two quarterly sampling events (420 µg/l on June 9, 2014 and 60 µg/l on September 16, 2014). This concentration also represented the lowest such value since February 2, 2011. A dissolved-phase MTBE concentration of 310 µg/l was reported in monitoring well MW-9, a decrease from 450 µg/l during the last reporting period and 760 µg/l during the first quarter of 2014. Monitoring well MW-8 reported a TPH-GRO concentration below detection limits, the second such occurrence since December 2011. Well MW-9 had a dissolved-phased concentration of TPH-GRO of 260 µg/l, which represents the lowest such value since February 2, 2011. All remaining analytes in the pumping wells reported concentrations below detection limits.

All analytes reported concentrations below detection limits in monitoring well MW-10, the fourth such occurrence since June 2011. This represents the fourth consecutive quarter in which MTBE was observed below detection limits since that time as well.

Monitoring well MW-1 reported a MTBE concentration below detection limits. Monitoring well MW-2 observed a MTBE concentration of 7.8 µg/l, which represents a slight increase from the last reporting period (5 µg/l). Monitoring well MW-5 reported a MTBE concentration of 4.2 µg/l during this monitoring period.

A dissolved-phase MTBE concentration of 600 µg/l was reported in monitoring well MW-6, which represents a decrease over each of the last fourth quarters. Monitoring well MW-6 had a dissolved-phase concentration of TPH-GRO of 500 µg/l, which also represents a decrease over each of the last four quarters and the lowest such value on record. All remaining analytes reported concentrations below detection limits.

Monitoring well MW-7 reported all analytes below detection limits for the second consecutive quarter, and the second time since June 2013.

No other VOCs were detected above laboratory detection limits in the monitoring wells. Summary and laboratory reports are included as **Figure 2**, **Table 2**, and **Attachment A**. MTBE concentration graphs-over-time are provided as **Attachment B**.

7-Eleven Potable Well

Annual sampling of the on-site potable well was conducted last quarter on September 16, 2014. All analytes reported concentrations below detection limits. Historical analytical data is summarized in **Table 2**.

Residential Treatment Potable Well

Samples were collected from the POET system of the potable well servicing 124 Hanover Pike this quarter, on October 31, 2014. At the request of MDE, the POET system was sampled monthly during the system startup for the first 90 days. The samples were analyzed for total VOCs plus oxygenates via EPA Method 524.2. AECOM samples the system bimonthly (pre-, mid-, and post-injection), based on carbon breakthrough data. All analytes in the influent sample revealed concentrations below detection limits. Six carbon changes have been conducted to date, including change-out of all three carbon units on July 20, 2010, February 8, 2011, June 28, 2011, February 21, 2012, June 26, 2012 and December 28, 2012, based on TBA breakthrough of the first carbon unit. No VOCs, including MTBE, have been detected above laboratory detection limits in the final effluent. Residential treatment and non-treatment potable well sampling results are included in **Table 3**, and **Attachment C**. A graph depicting influent MTBE concentrations in the potable well located at 124 Hanover Pike over time is provided as **Attachment D**.

Residential Non-Treatment Potable Wells

No residential wells were sampled during this quarter. Residential potable well sampling results are included in **Table 4**.

REMEDIATION SYSTEM SUMMARY

AECOM began installation of the ex-situ groundwater extraction and treatment system at the site on August 19, 2013. System startup and shakedown took place on October 8, 2013 following extensive inspections and piping testing to ensure maximum efficiency and operability. Based on decreasing methyl tert-butyl ether (MTBE) trends and MDE approval, AECOM excluded monitoring well MW-6 from the system. Electric submersible pumps have been installed in monitoring wells MW-8, MW-9 and MW-10 at depths from the top-of-casing of 180 feet (ft), 185 ft, and 185 ft below ground surface (bgs), respectively.

All extracted groundwater is treated through an air stripper, two particulate filters, and two 500-pound granular activated carbon (GAC) units prior to discharge. The treated groundwater is discharged to the stormwater collection system on the vicinity of the 7-Eleven property. The treated groundwater is discharged in accordance with the requirements of the National Pollutant Discharge Elimination System (NPDES) General Permit and all necessary permits obtained from Carroll County. The air stripper system received an exemption from the requirements of the General Permit to Construct for Soil Vapor Extraction and Groundwater Air Stripping Equipment due to the concentrations remaining well below the de minimis standards.

In accordance with the MDE CAP Approval letter and Discharge Monitoring Reporting requirements dated February 20, 2013, AECOM samples the remediation system effluent twice monthly and completes twice monthly operation and maintenance (O&M) site visits, including gauging of the monitoring wells, to evaluate the operation of the remediation system and to complete any necessary system maintenance.

The remediation system was started on October 8, 2013 and was in operation 100% of the time during this quarter. A total of 2,695,875 gallons of treated groundwater have been discharged through the end of this reporting period, 662,020 of which were discharged from the system during this reporting period (October through December 2014): 114,120 gallons were pumped from monitoring well MW-8 at an average rate of 0.76 gallons-per-minute (gpm); 43,668 gallons were pumped from monitoring well MW-9 at an average rate of 0.29 gpm; and 504,232 gallons were pumped from monitoring well MW-10 at an average rate of 3.39 gpm. System performance data is provided in **Table 5.**

Depth-to-water during this quarter in monitoring well MW-8 ranged from 124.51 feet bgs on October 31, 2014 to 172.50 feet bgs on November 24, 2014 (flow rate was increased temporarily for observation). Depth-to-water during this quarter in monitoring well MW-9 ranged from 146.55 feet bgs on December 3, 2014 to 148.82 feet bgs on October 31, 2014. Depth-to-water during this quarter in monitoring well MW-10 123.60 feet bgs on October 31, 2014 to 128.10 feet bgs on December 3, 2014. Groundwater drawdown graphs of the pumping wells (MW-8, MW-9 and MW-10) are provided in **Attachment E**.

Groundwater Treatment System Analytical Summary

Air stripper influent and effluent samples were collected and submitted for laboratory analysis on October 13, November 10, and December 3 and 29, 2014 (also includes GAC 1 effluent and GAC 2 effluent). These three sampling events revealed air stripper influent MTBE concentrations of 26 µg/l, 26 µg/l and 24 µg/l, respectively. All remaining analytes in the air stripper influent revealed concentrations below detection limits during all three sampling events this quarter.

The air stripper effluent sample reported all analytes below detection limits during all six sampling events this quarter. The GAC 1 effluent sample from all three sampling events during this reporting period revealed all analytes below detection limits. A system final effluent (GAC 2) sample was collected on October 31, November 10 and 24, and December 3 and 29, 2014, the results of which revealed all analyte parameters below detection limits.

A summary of the analytical results are provided in **Table 6**. Laboratory reports are provided in **Attachment F**. Graphs depicting the air stripper MTBE and TPH-GRO concentrations over time are provided in **Attachment G**.

Summary

Based on historical analytical data and groundwater flow direction, dissolved-phase MTBE was initially concentrated in the area near the tank field (MW-1 and MW-6). MTBE concentrations in well MW-1 have dropped nearly two orders of magnitude since the well was sampled in July 2005. MTBE concentrations in well MW-1 have been below the MDE Cleanup Standard each of the last four quarters, and 13 of the past 14 quarters. Decreases in MTBE were observed in wells MW-6 through MW-9, with relatively steady concentration values observed in wells MW-2 and MW-5. Decreases in TPH-GRO concentrations were observed in wells MW-6, MW-8 and MW-9, with the remaining wells reporting TPH-GRO concentrations below detection limits. All dissolved-phase gasoline compounds in bedrock well MW-7 have reported concentrations below detection limits during each of the last two quarters. MTBE was not detected in bedrock well MW-10 for the fourth consecutive quarter, representing the only four quarters with no detectable concentration since June 2011. Bedrock well MW-8 revealed a decrease in MTBE concentration this quarter with the lowest such value since February 2011 (16 µg/l). MTBE concentrations in bedrock well MW-9 have also decreased over the past three quarters, dropping more than 91% from 3,500 µg/l in March 2014 to 310 µg/l during this reporting period. Following system warranty repairs in May 2014, the system appears to be operating with the most efficiency sine startup in October 2013. Furthermore, MTBE influent concentrations in the potable well servicing 124 Hanover Pike were below detection limits for the second consecutive quarter, representing the only two such events on record.

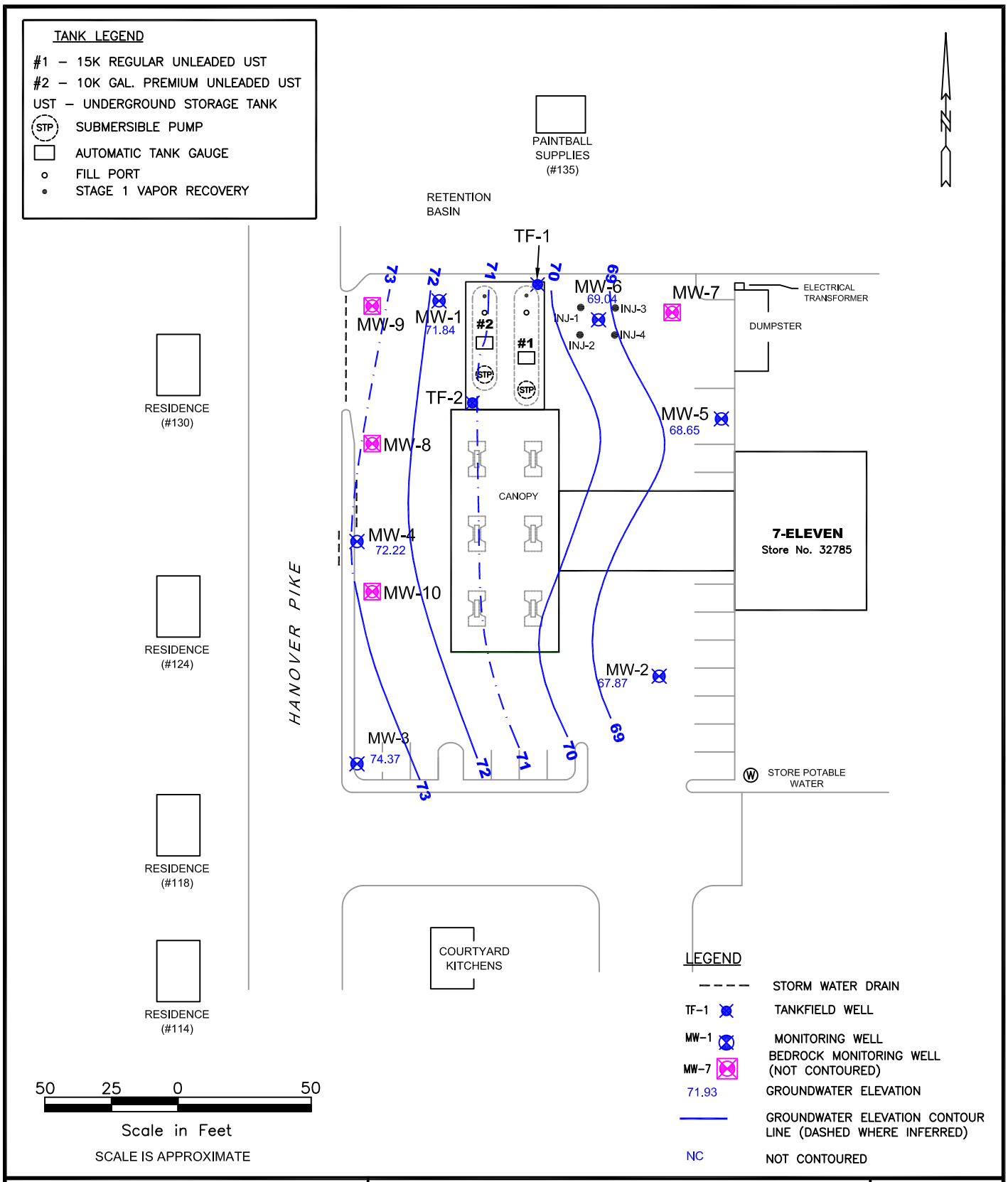
ACTIVITIES FOR THE FIRST QUARTER 2015

- January 2015 – Complete carbon change of 124 Hanover Pike potable well treatment system as necessary; monthly well gauging. Conduct system monitoring and monthly sampling regimen.

- February 2015 – Conduct bimonthly sampling of potable well at 124 Hanover Pike; complete carbon change of 124 Hanover Pike potable well treatment system as necessary; conduct monthly well gauging. Conduct system monitoring and monthly sampling regimen.

- March 2015– Conduct bimonthly sampling of potable well at 124 Hanover Pike; conduct quarterly gauging and sampling of monitoring and tank field wells. Complete carbon change of 124 Hanover Pike potable well treatment system as necessary; monthly well gauging. Conduct system monitoring and monthly sampling regimen.

FIGURES



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GROUNDWATER ELEVATION MAP SHALLOW WELLS (PUMPING CONDITIONS) December 3, 2014

7–ELEVEN STORE NO. 32785
125 HANOVER PIKE
HAMPSTEAD, MD

FIGURE NUMBER: 1

DRAWN BY:	CHECKED BY:	DATE:	PROJECT NUMBER:	SHEET NUMBER:
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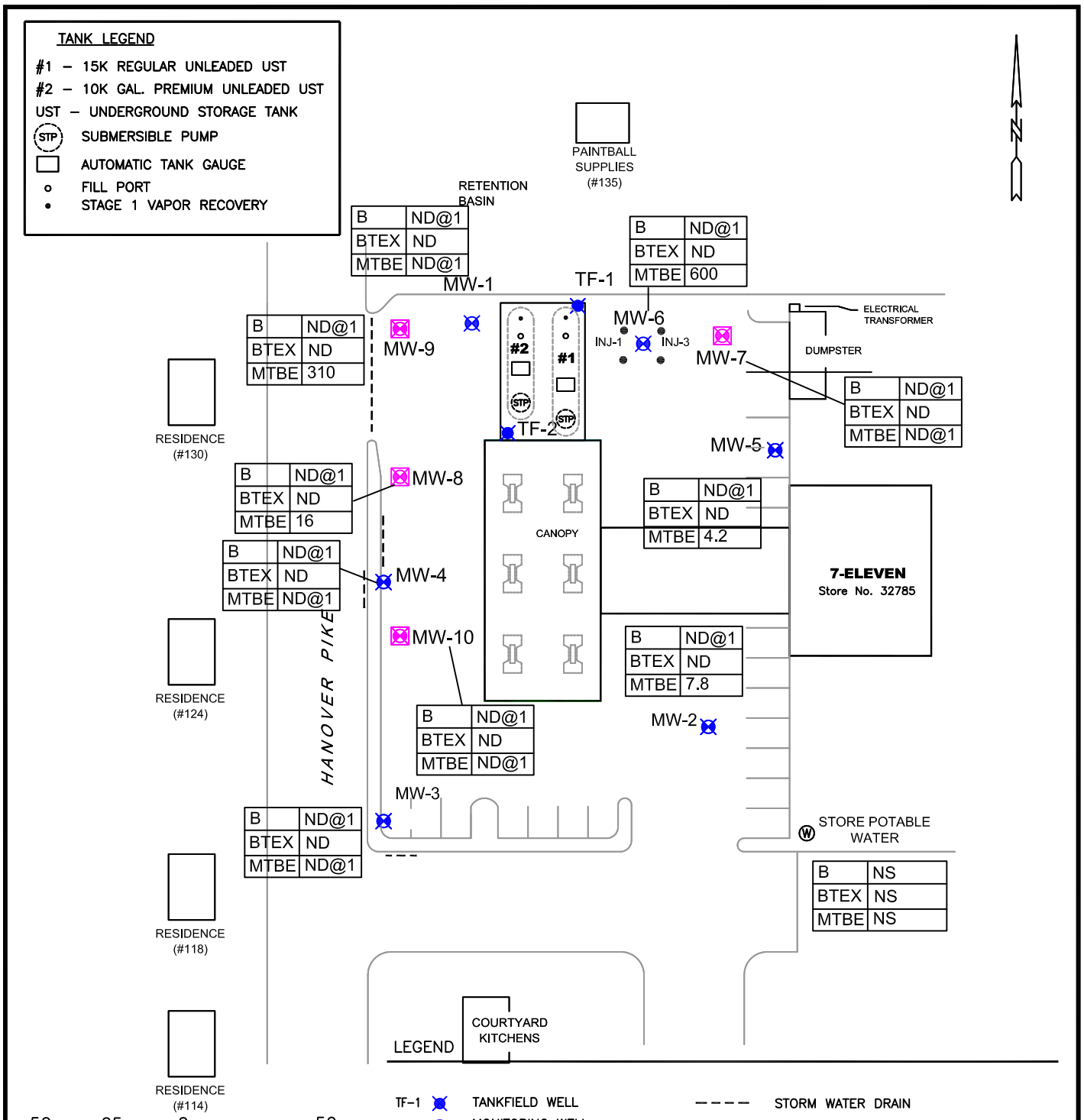
File: Z:\Maryland\32785 - Hampstead - ON LEGAL HOLD\60144916\Section 5 Project Reporting\Quarterlies\Monitoring 2014\Q-3\Figure 1 (Pumping Conditions).dwg Layout: FIG.1 User: pecorap Plotted: Jan 2



NOTE: SCALE IS APPROXIMATE

MW-1 THROUGH MW-3 WERE INSTALLED 7/2005.
MW-4 THROUGH MW-5 WERE INSTALLED 11/2005.
MW-6 THROUGH MW-8 WERE INSTALLED 12/2008.

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DISSOLVED-PHASE HYDROCARBON CONCENTRATION MAP (ug/l)
December 3, 2014

7-ELEVEN STORE NO. 32785
125 HANOVER PIKE
HAMPSTEAD, MD

FIGURE NUMBER: **2**

DRAWN BY:	CHECKED BY:	DATE:	PROJECT NUMBER:	SHEET NUMBER:
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File: Z:\Maryland\32785 - Hampstead - ON LEGAL HOLD\60144916\Section 5 Project Reporting\Quarterlies\Monitoring 2014\Q-3\FIGURE 2.dwg Layout: Project Review MTBE Iso Map User: pecorap Plotted: J

TABLES

Table 1: Depth to Water and Groundwater Elevation
7-Eleven Store No. 32785
Hampstead, Maryland

Well	Top of Casing	Date	Depth to Water (in feet)	Corrected Elevation
MW-1	96.54	7/25/05	24.47	72.07
		8/18/05	25.98	70.56
Installed 7/7/05		1/25/06	24.92	71.62
Total depth 35'		7/11/06	25.74	70.80
Screened 15' to 35'		9/7/06	28.08	68.46
4" casing; .020 slot screen		1/9/07	25.45	71.09
		6/14/07	25.32	71.22
		11/30/07	31.10	65.44
		2/14/08	29.20	67.34
		5/23/08	25.04	71.50
		8/7/08	25.36	71.18
		12/3/08	27.22	69.32
		2/12/09	26.15	70.39
		5/12/09	23.56	72.98
		8/19/09	24.86	71.68
		11/4/09	21.88	74.66
		2/26/10	22.26	74.28
		5/13/10	23.85	72.69
		8/17/10	25.37	71.17
		11/28/10	28.04	68.50
		2/2/11	28.78	67.76
		3/31/11	23.52	73.02
		4/6/11	24.26	72.28
		5/26/11	22.25	74.29
		6/28/11	25.66	70.88
		7/29/11	26.25	70.29
		8/26/11	25.03	71.51
		9/26/11	23.75	72.79
		10/14/11	24.45	72.09
		11/23/11	23.71	72.83
		12/20/11	21.85	74.69
		1/10/12	22.09	74.45
		2/24/12	24.28	72.26
		3/8/12	23.63	72.91
		6/7/12	21.54	75.00
		7/17/12	24.69	71.85
		8/21/12	24.34	72.20
		9/19/12	26.18	70.36
		10/24/12	24.74	71.80
		10/31/12	23.67	72.87
		11/27/12	24.14	72.40
		12/21/12	25.20	71.34
		1/22/13	24.07	72.47
		2/26/13	23.40	73.14
		3/29/13	22.60	73.94
		4/17/13	23.78	72.76
		5/30/13	24.57	71.97
		6/5/13	24.98	71.56
		7/23/13	24.88	71.66
		8/29/13	26.09	70.45
		9/25/13	27.68	68.86
		10/14/13	26.21	70.33
		10/15/13	25.68	70.86
		10/17/13	25.04	71.50
		10/21/13	24.77	71.77
		11/14/13	26.10	70.44
		11/25/13	26.48	70.06
		12/16/13	23.81	72.73
		1/13/14	22.28	74.26
		1/29/14	NA	NA
		2/10/14	22.00	74.54
		3/11/14	20.59	75.95
		4/21/14	19.04	77.50
		5/7/14	18.05	78.49
		6/9/14	19.69	76.85
		7/23/14	21.04	75.50
		8/22/14	22.49	74.05
		9/16/14	25.11	71.43
		10/31/14	24.81	71.73
		11/24/14	25.41	71.13
		12/3/14	24.70	71.84

Table 1: Depth to Water and Groundwater Elevation
7-Eleven Store No. 32785
Hampstead, Maryland

Well	Top of Casing	Date	Depth to Water (in feet)	Corrected Elevation
MW-2	98.67	7/25/05	27.60	71.07
		8/18/05	28.38	70.29
Installed 7/7/05		1/25/06	27.85	70.82
Total depth 35'		7/11/06	28.92	69.75
Screened 15' to 35'		9/7/06	30.15	68.52
4" casing; .020 slot screen		1/9/07	28.36	70.31
		6/14/07	27.51	71.16
		11/30/07	33.37	65.30
		2/14/08	32.17	66.50
		5/23/08	28.63	70.04
		8/7/08	28.58	70.09
		12/3/08	31.07	67.60
		2/12/09	29.10	69.57
		5/12/09	28.56	70.11
		8/19/09	28.56	70.11
		11/4/09	27.27	71.40
		2/26/10	25.49	73.18
		5/13/10	25.33	73.34
		8/17/10	28.98	69.69
		11/28/10	30.78	67.89
		2/2/11	31.34	67.33
		3/31/11	26.01	72.66
		4/6/11	28.63	70.04
		5/26/11	26.46	72.21
		6/28/11	27.59	71.08
		7/29/11	29.38	69.29
		8/26/11	29.97	68.70
		9/26/11	27.99	70.68
		10/14/11	27.49	71.18
		11/23/11	27.19	71.48
		12/20/11	22.24	76.43
		1/10/12	25.82	72.85
		2/24/12	26.39	72.28
		3/8/12	26.66	72.01
		6/7/12	27.22	71.45
		7/17/12	28.41	70.26
		8/21/12	28.50	70.17
		9/19/12	29.13	69.54
		10/24/12	29.14	69.53
		10/31/12	28.94	69.73
		11/27/12	28.51	70.16
		12/21/12	27.76	70.91
		1/22/13	27.67	71.00
		2/26/13	26.86	71.81
		3/29/13	26.60	72.07
		4/17/13	26.83	71.84
		5/30/13	27.41	71.26
		6/5/13	27.70	70.97
		7/23/13	27.67	71.00
		8/29/13	29.15	69.52
		9/25/13	30.29	68.38
		10/14/13	31.34	67.33
		10/15/13	31.43	67.24
		10/17/13	31.45	67.22
		10/21/13	31.57	67.10
		11/14/13	31.82	66.85
		11/25/13	32.17	66.50
		12/16/13	31.49	67.18
		1/13/14	29.88	68.79
		1/29/14	28.68	69.99
		2/10/14	28.75	69.92
		3/11/14	27.81	70.86
		4/21/14	26.22	72.45
		5/7/14	25.80	72.87
		6/9/14	25.15	73.52
		7/23/14	26.55	72.12
		8/22/14	27.90	70.77
		9/16/14	29.00	69.67
		10/31/14	30.48	68.19
		11/24/14	30.73	67.94
		12/3/14	30.80	67.87

Table 1: Depth to Water and Groundwater Elevation
7-Eleven Store No. 32785
Hampstead, Maryland

Well	Top of Casing	Date	Depth to Water (in feet)	Corrected Elevation
MW-3	97.51	7/25/05	25.02	72.49
		8/18/05	27.41	70.10
Installed 7/11/05		1/25/06	24.56	72.95
Total depth 35'		7/11/06	25.42	72.09
Screened 15' to 35'		9/7/06	28.17	69.34
4" casing; .020 slot screen		1/9/07	24.29	73.22
		6/14/07	26.85	70.66
		11/30/07	32.45	65.06
		2/14/08	29.80	67.71
		5/23/08	24.09	73.42
		8/7/08	26.85	70.66
		12/3/08	29.55	67.96
		2/12/09	28.17	69.34
		5/12/09	25.63	71.88
		8/19/09	27.15	70.36
		11/4/09	23.84	73.67
		2/26/10	NG	--
		5/13/10	24.64	72.87
		8/17/10	26.04	71.47
		11/28/10	29.93	67.58
		2/2/11	NG	--
		3/31/11	NG	--
		4/6/11	26.33	71.18
		5/26/11	24.52	72.99
		6/28/11	27.32	70.19
		7/29/11	29.02	68.49
		8/26/11	28.00	69.51
		9/26/11	25.48	72.03
		10/14/11	26.27	71.24
		11/23/11	25.38	72.13
		12/20/11	24.12	73.39
		1/10/12	24.48	73.03
		2/24/12	26.09	71.42
		3/8/12	25.58	71.93
		6/7/12	23.96	73.55
		7/17/12	26.86	70.65
		8/21/12	26.61	70.90
		9/19/12	28.22	69.29
		10/24/12	26.41	72.26
		10/31/12	25.36	73.31
		11/27/12	25.96	72.71
		12/21/12	26.85	71.82
		1/22/13	25.55	73.12
		2/26/13	25.27	73.40
		3/29/13	24.96	72.55
		4/17/13	25.86	71.65
		5/30/13	26.58	70.93
		6/5/13	26.89	70.62
		7/23/13	26.80	70.71
		8/29/13	28.20	69.31
		9/25/13	29.94	67.57
		10/14/13	26.21	71.30
		10/15/13	25.28	72.23
		10/17/13	24.41	73.10
		10/21/13	24.24	73.27
		11/14/13	25.05	72.46
		11/25/13	25.12	72.39
		12/16/13	23.48	74.03
		1/13/14	23.02	74.49
		1/29/14	24.96	72.55
		2/10/14	21.90	75.61
		3/11/14	20.42	77.09
		4/21/14	19.28	78.23
		5/7/14	17.75	79.76
		6/9/14	19.36	78.15
		7/23/14	NG	--
		8/22/14	NG	--
		9/16/14	22.90	74.61
		10/31/14	23.41	74.10
		11/24/14	23.73	73.78
		12/3/14	23.14	74.37

Table 1: Depth to Water and Groundwater Elevation
7-Eleven Store No. 32785
Hampstead, Maryland

Well	Top of Casing	Date	Depth to Water (in feet)	Corrected Elevation
MW-4	96.30	7/25/05	NI	--
		8/18/05	NI	--
Installed 11/21/05		1/25/06	23.78	72.52
Total depth 35'		7/11/06	24.06	72.24
Screened 15' to 35'		9/7/06	28.29	68.01
4" casing; .020 slot screen		1/9/07	23.91	72.39
		6/14/07	25.49	70.81
		11/30/07	31.07	65.23
		2/14/08	28.36	67.94
		5/23/08	23.06	73.24
		8/7/08	25.40	70.90
		12/3/08	28.98	67.32
		2/12/09	26.65	69.65
		5/12/09	23.93	72.37
		8/19/09	25.43	70.87
		11/4/09	22.00	74.30
		2/26/10	22.79	73.51
		5/13/10	23.25	73.05
		8/17/10	25.91	70.39
		11/28/10	28.44	67.86
		2/2/11	29.19	67.11
		3/31/11	23.94	72.36
		4/6/11	24.63	71.67
		5/26/11	22.84	73.46
		6/28/11	25.85	70.45
		7/29/11	27.44	68.86
		8/26/11	25.97	70.33
		9/26/11	23.78	72.52
		10/14/11	24.77	71.53
		11/23/11	24.32	71.98
		12/20/11	22.47	73.83
		1/10/12	22.85	73.45
		2/24/12	24.49	71.81
		3/8/12	24.20	72.10
		6/7/12	22.01	74.29
		7/17/12	25.19	71.11
		8/21/12	NG	
		9/19/12	26.63	69.67
		10/24/12	25.05	71.25
		10/31/12	24.48	71.82
		11/27/12	24.36	71.94
		12/21/12	25.46	70.84
		1/22/13	24.12	72.18
		2/26/13	23.67	72.63
		3/29/13	23.38	72.92
		4/17/13	24.34	71.96
		5/30/13	26.37	69.93
		6/5/13	25.45	70.85
		7/23/13	25.24	71.06
		8/29/13	26.61	69.69
		9/25/13	29.48	66.82
		10/14/13	25.88	70.42
		10/15/13	24.65	71.65
		10/17/13	23.67	72.63
		10/21/13	23.50	72.80
		11/14/13	24.32	71.98
		11/25/13	24.35	71.95
		12/16/13	22.81	73.49
		1/13/14	22.07	74.23
		1/29/14	NA	NA
		2/10/14	20.90	75.40
		3/11/14	19.56	76.74
		4/21/14	19.00	77.30
		5/7/14	17.20	79.10
		6/9/14	20.05	76.25
		7/23/14	21.50	74.80
		8/22/14	22.78	73.52
		9/16/14	24.83	71.47
		10/31/14	24.81	71.49
		11/24/14	24.89	71.41
		12/3/14	24.08	72.22

Table 1: Depth to Water and Groundwater Elevation
7-Eleven Store No. 32785
Hampstead, Maryland

Well	Top of Casing	Date	Depth to Water (in feet)	Corrected Elevation
MW-5	98.35	7/25/05	NI	--
		8/18/05	NI	--
Installed 11/22/05		1/25/06	27.55	70.80
Total depth 35'		7/11/06	28.54	69.81
Screened 15' to 35'		9/7/06	29.97	68.38
4" casing; .020 slot screen		1/9/07	28.08	70.27
		6/14/07	27.38	70.97
		11/30/07	33.06	65.29
		2/14/08	31.74	66.61
		5/23/08	28.02	70.33
		8/7/08	28.18	70.17
		12/3/08	30.45	67.90
		2/12/09	28.67	69.68
		5/12/09	27.88	70.47
		8/19/09	28.20	70.15
		11/4/09	26.55	71.80
		2/26/10	25.22	73.13
		5/13/10	25.21	73.14
		8/17/10	28.62	69.73
		11/28/10	30.49	67.86
		2/2/11	35.96	62.39
		3/31/11	27.91	70.44
		4/6/11	28.05	70.30
		5/26/11	25.96	72.39
		6/28/11	27.47	70.88
		7/29/11	29.18	69.17
		8/26/11	29.40	68.95
		9/26/11	27.36	70.99
		10/14/11	27.11	71.24
		11/23/11	26.85	71.50
		12/20/11	25.71	72.64
		1/10/12	25.43	72.92
		2/24/12	26.30	72.05
		3/8/12	26.42	71.93
		6/7/12	26.45	71.90
		7/17/12	27.66	70.69
		8/21/12	27.98	70.37
		9/19/12	28.79	69.56
		10/24/12	28.52	69.83
		10/31/12	28.28	70.07
		11/27/12	27.10	71.25
		12/21/12	27.41	70.94
		1/22/13	27.14	71.21
		2/26/13	26.38	71.97
		3/29/13	26.13	72.22
		4/17/13	26.59	71.76
		5/30/13	27.30	71.05
		6/5/13	27.68	70.67
		7/23/13	27.56	70.79
		8/29/13	28.81	69.54
		9/25/13	30.00	68.35
		10/14/13	NG	NG
		10/15/13	30.73	67.62
		10/17/13	30.64	67.71
		10/21/13	30.64	67.71
		11/14/13	NG	NG
		11/25/13	31.16	67.19
		12/16/13	30.15	68.20
		1/13/14	28.72	69.63
		1/29/14	NA	NA
		2/10/14	27.67	70.68
		3/11/14	26.49	71.86
		4/21/14	24.94	73.41
		5/7/14	24.26	74.09
		6/9/14	24.07	74.28
		7/23/14	25.52	72.83
		8/22/14	26.85	71.50
		9/16/14	28.16	70.19
		10/31/14	29.38	68.97
		11/24/14	29.69	68.66
		12/3/14	29.70	68.65

Table 1: Depth to Water and Groundwater Elevation
7-Eleven Store No. 32785
Hampstead, Maryland

Well	Top of Casing	Date	Depth to Water (in feet)	Corrected Elevation
MW-6	95.74	12/3/08	28.89	66.85
		2/12/09	27.52	68.22
Installed 11/17/08		5/12/09	25.91	69.83
Total depth 40'		8/19/09	26.68	69.06
Screened 15' to 40'		11/4/09	24.30	71.44
4" casing; .020 slot screen		2/26/10	23.89	71.85
		5/13/10	24.06	71.68
		8/17/10	27.08	68.66
		11/28/10	29.18	66.56
		2/2/11	29.72	66.02
		3/31/11	25.84	69.90
		4/6/11	26.20	69.54
		5/26/11	24.36	71.38
		6/28/11	26.40	69.34
		7/29/11	27.98	67.76
		8/26/11	27.40	68.34
		9/26/11	25.46	70.28
		10/14/11	25.63	70.11
		11/23/11	25.37	70.37
		12/20/11	23.91	71.83
		1/10/12	23.92	71.82
		2/24/12	24.81	70.93
		3/8/12	25.19	70.55
		6/7/12	24.10	71.64
		7/17/12	26.15	69.59
		8/21/12	26.24	69.50
		9/19/12	27.36	68.38
		10/24/12	26.68	69.06
		10/31/12	26.22	69.52
		11/27/12	25.52	70.22
		12/21/12	26.10	69.64
		1/22/13	27.48	68.26
		2/26/13	24.87	70.87
		3/29/13	24.55	71.19
		4/17/13	25.20	70.54
		5/30/13	25.82	69.92
		6/5/13	26.18	69.56
		7/23/13	26.26	69.48
		8/29/13	27.38	68.36
		9/25/13	28.80	66.94
		10/14/13	28.34	67.40
		10/15/13	27.95	67.79
		10/17/13	27.44	68.30
		10/21/13	27.21	68.53
		11/14/13	27.69	68.05
		11/25/13	28.00	67.74
		12/16/13	26.41	69.33
		1/13/14	25.35	70.39
		1/29/14	25.21	70.53
		2/10/14	24.36	71.38
		3/11/14	22.92	72.82
		4/21/14	21.51	74.23
		5/7/14	20.44	75.30
		6/9/14	21.26	74.48
		7/23/14	22.69	73.05
		8/22/14	23.88	71.86
		9/16/14	25.66	70.08
		10/31/14	26.81	68.93
		11/24/14	26.70	69.04
		12/3/14	26.70	69.04

Table 1: Depth to Water and Groundwater Elevation
7-Eleven Store No. 32785
Hampstead, Maryland

Well	Top of Casing	Date	Depth to Water (in feet)	Corrected Elevation
MW-7	95.71	12/3/08	29.61	66.10
		2/12/09	28.14	67.57
Installed 11/17/08		5/12/09	27.12	68.59
Total depth 200'		8/19/09	27.54	68.17
6' steel casing to 92'		11/4/09	26.05	69.66
		2/26/10	24.31	71.40
		5/13/10	24.40	71.31
		8/17/10	27.85	67.86
		11/28/10	29.62	66.09
		2/2/11	30.28	65.43
		3/31/11	27.38	68.33
		4/6/11	27.30	68.41
		5/26/11	25.24	70.47
		6/28/11	26.68	69.03
		7/29/11	28.41	67.30
		8/26/11	28.16	67.55
		9/26/11	26.73	68.98
		10/14/11	26.63	69.08
		11/23/11	26.03	69.68
		12/20/11	24.98	70.73
		1/10/12	24.68	71.03
		2/24/12	25.52	70.19
		3/8/12	25.65	70.06
		6/7/12	26.02	69.69
		7/17/12	27.02	68.69
		8/21/12	27.27	68.44
		9/19/12	28.01	67.70
		10/24/12	27.90	67.81
		10/31/12	27.62	68.09
		11/27/12	26.38	69.33
		12/21/12	26.80	68.91
		1/22/13	26.38	69.33
		2/26/13	25.64	70.07
		3/29/13	25.39	70.32
		4/17/13	25.69	70.02
		5/30/13	26.45	69.26
		6/5/13	26.83	68.88
		7/23/13	26.82	68.89
		8/29/13	28.12	67.59
		9/25/13	29.17	66.54
		10/14/13	30.92	64.79
		10/15/13	31.40	64.31
		10/17/13	31.53	64.18
		10/21/13	31.51	64.20
		11/14/13	31.81	63.90
		11/25/13	32.41	63.30
		12/16/13	31.52	64.19
		1/13/14	29.93	65.78
		1/29/14	NA	NA
		2/10/14	28.92	66.79
		3/11/14	27.95	67.76
		4/21/14	26.30	69.41
		5/7/14	25.49	70.22
		6/9/14	25.15	70.56
		7/23/14	26.52	69.19
		8/22/14	27.84	67.87
		9/16/14	29.02	66.69
		10/31/14	30.25	65.46
		11/24/14	30.71	65.00
		12/3/14	30.83	64.88

Table 1: Depth to Water and Groundwater Elevation
7-Eleven Store No. 32785
Hampstead, Maryland

Well	Top of Casing	Date	Depth to Water (in feet)	Corrected Elevation
MW-8	96.97	12/3/08	28.56	68.41
		2/12/09	26.71	70.26
Installed 11/17/08		5/12/09	25.79	71.18
Total depth 200'		8/19/09	26.28	70.69
6' steel casing to 100'		11/4/09	24.46	72.51
		2/26/10	23.17	73.80
		5/13/10	23.24	73.73
		8/17/10	26.24	70.73
		11/28/10	28.30	68.67
		2/2/11	29.83	67.14
		3/31/11	25.93	71.04
		4/6/11	25.91	71.06
		5/26/11	24.14	72.83
		6/28/11	25.53	71.44
		7/29/11	27.26	69.71
		8/26/11	27.51	69.46
		9/26/11	26.55	70.42
		10/14/11	25.30	71.67
		11/23/11	24.95	72.02
		12/20/11	23.70	73.27
		1/10/12	23.51	73.46
		2/24/12	24.21	72.76
		3/8/12	24.24	72.73
		6/7/12	24.42	72.55
		7/17/12	25.72	71.25
		8/21/12	26.02	70.95
		9/19/12	26.72	70.25
		10/24/12	26.45	70.52
		10/31/12	26.17	70.80
		11/27/12	25.06	71.91
		12/21/12	25.67	71.30
		1/22/13	25.10	71.87
		2/26/13	24.39	72.58
		3/29/13	24.15	72.82
		4/17/13	24.51	72.46
		5/30/13	25.25	71.72
		6/5/13	25.56	71.41
		7/23/13	25.62	71.35
		8/29/13	26.89	70.08
		9/25/13	28.04	68.93
		10/14/13	85.23	**
		10/15/13	150.90	**
		10/17/13	158.33	**
		10/21/13	162.16	**
		11/14/12	153.81	**
		11/25/13	155.56	**
		12/16/13	160.70	**
		1/13/14	146.80	**
		1/29/13	129.04	**
		2/10/14	174.40	**
		3/11/14	NG	NG
		4/21/14	109.34	**
		5/7/14	166.17	**
		6/9/14	132.62	**
		7/23/14	140.62	**
		8/22/14	145.61	**
		9/16/14	149.94	**
		10/31/14	124.51	**
		11/24/14	172.50	**
		12/3/14	119.50	**

Table 1: Depth to Water and Groundwater Elevation
7-Eleven Store No. 32785
Hampstead, Maryland

Well	Top of Casing	Date	Depth to Water (in feet)	Corrected Elevation
MW-9	97.26	8/17/10	26.90	70.36
		11/28/10	27.19	70.07
Installed 6/1/10		2/2/11	28.92	68.34
Total depth 200'		3/31/11	25.89	71.37
6' steel casing to 110'		4/6/11	25.00	72.26
		5/26/11	24.10	73.16
		6/28/11	25.53	71.73
		7/29/11	27.23	70.03
		8/26/11	27.51	69.75
		9/26/11	25.98	71.28
		10/14/11	25.18	72.08
		11/23/11	24.70	72.56
		12/20/11	23.77	73.49
		1/10/12	23.54	73.72
		2/24/12	24.17	73.09
		3/8/12	24.58	72.68
		6/7/12	25.15	72.11
		7/17/12	25.50	71.76
		8/21/12	26.05	71.21
		9/19/12	26.49	70.77
		10/24/12	26.49	70.77
		10/31/12	26.30	70.96
		11/27/12	24.96	72.30
		12/21/12	25.44	71.82
		1/22/13	24.99	72.27
		2/26/13	24.45	72.81
		3/29/13	24.25	73.01
		4/17/13	24.54	72.72
		5/30/13	25.34	71.92
		6/5/13	25.70	71.56
		7/23/13	25.73	71.53
		8/29/13	26.94	70.32
		9/25/13	28.02	69.24
		10/14/13	47.95	**
		10/15/13	58.64	**
		10/17/13	147.10	**
		11/14/13	127.01	**
		11/25/13	115.24	**
		12/16/13	102.31	**
		1/13/14	100.21	**
		1/29/14	104.50	**
		2/10/14	58.83	**
		3/11/14	57.08	**
		4/21/14	53.60	**
		5/7/14	177.55	**
		6/9/14	136.06	**
		7/23/14	140.06	**
		8/22/14	141.43	**
		9/16/14	142.47	**
		10/31/14	148.82	**
		11/24/14	147.61	**
		12/3/14	146.55	**

Table 1: Depth to Water and Groundwater Elevation
7-Eleven Store No. 32785
Hampstead, Maryland

Well	Top of Casing	Date	Depth to Water (in feet)	Corrected Elevation
MW-10	96.40	8/17/10	27.98	68.42
		11/28/10	29.62	66.78
Installed 6/3/10		2/2/11	30.84	65.56
Total depth 200'		3/31/11	26.94	69.46
6' steel casing to 99'		4/6/11	27.02	69.38
		5/26/11	24.17	72.23
		6/28/11	27.51	68.89
		7/29/11	28.25	68.15
		8/26/11	28.80	67.60
		9/26/11	26.52	69.88
		10/14/11	26.15	70.25
		11/23/11	25.74	70.66
		12/20/11	24.85	71.55
		1/10/12	24.56	71.84
		2/24/12	26.26	70.14
		3/8/12	25.62	70.78
		6/7/12	26.09	70.31
		7/17/12	27.03	69.37
		8/21/12	NG	
		9/19/12	27.85	68.55
		10/24/12	26.99	69.41
		10/31/12	27.36	69.04
		11/27/12	26.15	70.25
		12/21/12	26.41	69.99
		1/22/13	26.20	70.20
		2/26/13	25.46	70.94
		3/29/13	25.28	71.12
		4/17/13	25.51	70.89
		5/30/13	25.01	71.39
		6/5/13	26.79	69.61
		7/23/13	26.72	69.68
		8/29/13	27.99	68.41
		9/25/13	29.05	67.35
		10/14/13	69.35	**
		10/15/13	92.20	**
		10/17/13	95.10	**
		10/21/13	94.08	**
		11/14/13	107.75	**
		11/25/13	126.95	**
		12/16/13	130.54	**
		1/13/14	131.18	**
		1/29/14	130.39	**
		2/10/14	129.70	**
		3/11/14	134.35	**
		4/21/14	134.77	**
		5/7/14	83.65	**
		6/9/14	105.29	**
		7/23/14	109.10	**
		8/22/14	111.10	**
		9/16/14	116.20	**
		10/31/14	123.60	**
		11/24/14	126.90	**
		12/3/14	128.10	**

Table 1: Depth to Water and Groundwater Elevation
7-Eleven Store No. 32785
Hampstead, Maryland

Well	Top of Casing	Date	Depth to Water (in feet)	Corrected Elevation
INJ-1		11/4/09	23.72	--
		2/26/10	NG	--
Installed 9/28/09		5/13/10	NG	--
Total depth 35'		3/31/11	NG	--
Screened 10' to 35'		4/6/11	NG	--
2" casing; .020 slot screen		5/26/11	23.94	--
		6/28/11	26.33	--
		7/29/11	28.02	--
		8/26/11	27.45	--
		9/26/11	25.16	--
		10/14/11	NG	--
		11/23/11	NG	--
		12/20/11	NG	--
INJ-2		11/4/09	24.04	--
		2/26/10	23.75	--
Installed 9/28/09		5/13/10	NG	--
Total depth 35'		3/31/11	NG	--
Screened 10' to 35'		4/6/11	NG	--
2" casing; .020 slot screen		5/26/11	24.58	--
		6/28/11	26.49	--
		7/29/11	28.14	--
		8/26/11	27.05	--
		9/26/11	24.82	--
		10/14/11	NG	--
		11/23/11	NG	--
		12/20/11	NG	--
INJ-3		11/4/09	24.33	--
		2/26/10	23.80	--
Installed 9/28/09		5/13/10	NG	--
Total depth 35'		3/31/11	NG	--
Screened 10' to 35'		4/6/11	NG	--
2" casing; .020 slot screen		5/26/11	24.25	--
		6/28/11	26.53	--
		7/29/11	28.16	--
		8/26/11	27.67	--
		9/26/11	25.71	--
		10/14/11	NG	--
		11/23/11	NG	--
		12/20/11	NG	--

Table 1: Depth to Water and Groundwater Elevation
7-Eleven Store No. 32785
Hampstead, Maryland

Well	Top of Casing	Date	Depth to Water (in feet)	Corrected Elevation
INJ-4		11/4/09	24.51	--
		2/26/10	24.01	--
Installed 9/28/09		5/13/10	NG	--
Total depth 35'		3/31/11	NG	--
Screened 10' to 35'		4/6/11	NG	--
2" casing; .020 slot screen		5/26/11	24.70	--
		6/28/11	26.76	--
		7/29/11	28.29	--
		8/26/11	27.93	--
		9/26/11	25.96	--
		10/14/11	NG	--
		11/23/11	NG	--
		12/20/11	NG	--
TF-1	96.74	7/25/05	Dry	--
4" PVC		8/18/05	Dry	--
Total Depth 13'		1/25/06	Dry	--
		7/11/06	Dry	--
		9/7/06	NG	--
		1/9/07	Dry	--
		6/14/07	Dry	--
		11/30/07	Dry	--
		2/14/08	Dry	--
		5/23/08	Dry	--
		8/7/08	Dry	--
		12/3/08	Dry	--
		2/12/09	Dry	--
		5/12/09	Dry	--
		8/19/09	Dry	--
		11/4/09	Dry	--
		2/26/10	Dry	--
		5/13/10	Dry	--
		8/17/10	Dry	--
		11/28/10	Dry	--
		2/2/11	NG	--
		3/31/11	Dry	--
		4/6/11	NG	--
		5/26/11	Dry	--
		6/28/11	Dry	--
		7/29/11	NG	--
		8/26/11	Dry	--
		9/26/11	Dry	--
		10/14/11	NG	--
		11/23/11	NG	--
		12/20/11	Dry	--
		1/10/12	NG	--
		2/24/12	NG	--
		3/8/12	Dry	--

Table 1: Depth to Water and Groundwater Elevation
7-Eleven Store No. 32785
Hampstead, Maryland

Well	Top of Casing	Date	Depth to Water (in feet)	Corrected Elevation
TF-2	97.08	7/25/05	Dry	--
4" PVC		8/18/05	Dry	--
Total Depth 13'		1/25/06	Dry	--
		7/11/06	Dry	--
		9/7/06	NG	--
		1/9/07	Dry	--
		6/14/07	Dry	
		11/30/07	Dry	--
		2/14/08	Dry	--
		5/23/08	Dry	--
		8/7/08	Dry	
		12/3/08	Dry	--
		2/12/09	Dry	--
		5/12/09	Dry	--
		8/19/09	Dry	--
		11/4/09	Dry	--
		2/26/10	Dry	--
		5/13/10	Dry	--
		8/17/10	Dry	--
		11/28/10	Dry	--
		2/2/11	Dry	--
		3/31/11	Dry	--
		4/6/11	NG	--
		5/26/11	12.95	--
		6/28/11	12.95	--
		7/29/11	NG	--
		8/26/11	Dry	--
		9/26/11	Dry	--
		10/14/11	NG	--
		11/23/11	NG	--
		12/20/11	Dry	--
		1/10/12	NG	--
		2/24/12	NG	--
		3/8/12	Dry	--

Groundwater Remediation System Started on October 8, 2013
Submersible pumps deployed into monitoring wells MW-8, MW-9 and MW-10
NI - not installed
NG - not gauged
NA - Frozen access
** represents well is under pumping conditions

Table 2: Groundwater Analytical Results
7-Eleven Store No. 32785
Hampstead, Maryland

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	TPH-GRO (µg/L)	TPH-DRO (mg/L)
MW-1	7/25/05	ND@20	ND@20	ND@20	ND@60	ND	**31,000**	28,000	1,300	NA	NA
	1/25/06	ND@1	ND@1	ND@1	ND@3	ND	**22,000**	17,000	E1,000	NA	NA
	7/11/06	ND@1	ND@1	ND@1	ND@3	ND	**E 22,000**	12,000	E 600	NA	NA
	1/9/07	ND@1	ND@1	ND@1	ND@3	ND	ND@1	13,000	ND@1000	NA	NA
	6/14/07	ND@1	ND@1	ND@1	ND@3	ND	**E 6,500**	E 680	140	**450**	ND@0.5
	11/30/07	ND@1	ND@1	ND@1	ND@3	ND	**11,000**	2,900	ND@1000	**720**	ND@0.5
	2/14/08	ND@10	ND@10	ND@10	ND@30	ND	**16,000**	2,900	370	**16,000**	ND@0.5
	5/23/08	ND@200	ND@200	ND@200	ND@600	ND	**23,000**	14,000	ND@2000	**40,000**	ND@0.5
	8/7/08	ND@10	ND@10	ND@10	ND@30	ND	**4,600**	ND@200	ND@100	**1,100**	ND@0.5
	12/3/08	ND@10	ND@10	ND@10	ND@30	ND	**1,200**	ND@200	ND@100	**670**	ND@0.5
	2/12/09	ND@1	ND@1	ND@1	ND@3	ND	**370**	ND@20	ND@10	ND@100	ND@0.5
	5/12/09	ND@1	ND@1	ND@1	ND@3	ND	**530**	ND@20	14	ND@100	ND@0.5
	8/19/09	ND@1	ND@1	ND@1	ND@3	ND	**56**	ND@20	ND@10	ND@100	NA
	11/4/09	ND@1	ND@1	ND@1	ND@3	ND	**190**	ND@20	ND@10	**240**	NA
	2/26/10	ND@1	ND@1	ND@1	ND@3	ND	**54**	ND@20	ND@10	ND@100	NA
	5/13/10	ND@1	ND@1	ND@1	ND@3	ND	**340**	86	ND@10	**310**	NA
	8/17/10	ND@1	ND@1	ND@1	ND@3	ND	6	ND@20	ND@10	ND@100	NA
	11/28/10	ND@1	ND@1	ND@1	ND@3	ND	3	ND@20	ND@10	ND@100	NA
	2/2/11	ND@1	ND@1	ND@1	ND@3	ND	3	ND@20	ND@10	ND@100	NA
	6/28/11	ND@1	ND@1	ND@1	ND@3	ND	**97**	ND@20	ND@10	ND@100	NA
	9/29/11	ND@1	ND@1	ND@1	ND@3	ND	**52**	ND@20	ND@10	ND@100	NA
	12/20/11	ND@1	ND@1	ND@1	ND@3	ND	15	ND@20	ND@10	ND@100	NA
	3/8/12	ND@1	ND@1	ND@1	ND@3	ND	6.8	ND@20	ND@10	ND@100	NA
	6/8/12	ND@1	ND@1	ND@1	ND@3	ND	6.9	ND@20	ND@10	ND@100	NA
	9/19/12	ND@1	ND@1	ND@1	ND@3	ND	1.8	ND@20	ND@10	ND@100	NA
	12/21/12	ND@1	ND@1	ND@1	ND@3	ND	8.2	ND@20	ND@10	ND@100	NA
	3/29/13	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	6/5/13	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	9/25/13	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	12/16/13	ND@1	ND@1	ND@1	ND@3	ND	**26**	ND@20	ND@10	ND@100	NA
	3/11/14	ND@1	ND@1	ND@1	ND@3	ND	14	ND@20	ND@10	ND@100	NA
	6/9/14	ND@1	ND@1	ND@1	ND@3	ND	1	ND@20	ND@10	ND@100	NA
	9/16/14	ND@1	ND@1	ND@1	ND@3	ND	11	ND@20	ND@10	ND@100	NA
	12/3/14	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
MW-2	7/25/05	ND@1	ND@1	ND@1	ND@3	ND	1	ND@25	ND@25	NA	NA
	1/25/06	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@25	ND@25	NA	NA
	7/11/06	ND@1	ND@1	ND@1	ND@3	ND	ND@1	30	ND@25	NA	NA
	1/9/07	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	NA	NA
	6/14/07	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5
	11/30/07	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5
	2/14/08	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5
	5/23/08	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5
	8/7/08	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@0.5
	12/3/08	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@0.5
	2/12/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@0.5
	5/12/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@0.5
	8/19/09	ND@1	ND@1	ND@1	ND@3	ND	14	ND@20	ND@10	ND@100	NA
	11/4/09	ND@1	ND@1	ND@1	ND@3	ND	7	ND@20	ND@10	ND@100	NA
	2/26/10	ND@1	ND@1	ND@1	ND@3	ND	8	ND@20	ND@10	ND@100	NA
	5/13/10	ND@1	ND@1	ND@1	ND@3	ND	**31**	ND@20	ND@10	ND@100	NA
	8/17/10	ND@1	ND@1	ND@1	ND@3	ND	**53**	ND@20	ND@10	ND@100	NA
	11/28/10	ND@1	ND@1	ND@1	ND@3	ND	**35**	ND@20	ND@10	ND@100	NA
	2/2/11	ND@1	ND@1	ND@1	ND@3	ND	**59**	ND@20	ND@10	ND@100	NA
	6/28/11	ND@1	ND@1	ND@1	ND@3	ND	**71**	ND@20	ND@10	ND@100	NA
	9/29/11	ND@1	ND@1	ND@1	ND@3	ND	**41**	ND@20	ND@10	ND@100	NA
	12/20/11	ND@1	ND@1	ND@1	ND@3	ND	**29**	ND@20	ND@10	ND@100	NA
	3/8/12	ND@1	ND@1	ND@1	ND@3	ND	**28**	ND@20	ND@10	ND@100	NA
	6/8/12	ND@1	ND@1	ND@1	ND@3	ND	**33**	ND@20	ND@10	ND@100	NA
	9/19/12	ND@1	ND@1	ND@1	ND@3	ND	**50**	ND@20	ND@10	ND@100	NA
	12/21/12	ND@1	ND@1	ND@1	ND@3	ND	**27**	ND@20	ND@10	ND@100	NA
	3/29/13	ND@1	ND@1	ND@1	ND@3	ND	13	ND@20	ND@10	ND@100	NA
	6/5/13	ND@1	ND@1	ND@1	ND@3	ND	**29**	ND@20	ND@10	ND@100	NA
	9/25/13	ND@1	ND@1	ND@1	ND@3	ND	**31**	ND@20	ND@10	ND@100	NA
	12/16/13	ND@1	ND@1	ND@1	ND@3	ND	**31**	ND@20	ND@10	ND@100	NA
	3/11/14	ND@1	ND@1	ND@1	ND@3	ND	**23**	ND@20	ND@10	ND@100	NA
	6/9/14	ND@1	ND@1	ND@1	ND@3	ND	11	ND@20	ND@10	ND@100	NA
	9/16/14	ND@1	ND@1	ND@1	ND@3	ND	5	ND@20	ND@10	ND@100	NA
	12/3/14	ND@1	ND@1	ND@1	ND@3	ND	7.8	ND@20	ND@10	ND@100	NA
MW-3	7/25/05	ND@1	ND@1	ND@1	ND@3	ND	**290**	180	ND@25	NA	NA
	1/25/06	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@25	ND@25	NA	NA
	7/11/06	ND@1	ND@1	ND@1	ND@3	ND	**390**	140	ND@25	NA	NA
	1/9/07	ND@1	ND@1	ND@1	ND@3	ND	4	ND@10	ND@10	NA	NA
	6/14/07	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5
	11/30/07	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5
	2/14/08	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5
	5/23/08	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5
	8/7/08	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@0.5
	12/3/08	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@0.5
	2/12/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@0.5
	5/12/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@0.5
	8/19/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	11/4/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	2/26/10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/13/10	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	8/17/10	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	11/28/10	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	2/2/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/28/11	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	9/29/11	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	12/20/11	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	3/8/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	6/8/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA

Table 2: Groundwater Analytical Results
7-Eleven Store No. 32785
Hampstead, Maryland

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	TPH-GRO (µg/L)	TPH-DRO (mg/L)
	9/19/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	12/21/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	3/29/13	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	6/5/13	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	9/25/13	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	12/16/13	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	3/11/14	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	6/9/14	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	9/16/14	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	12/3/14	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
MW-4	7/25/05	NI	NI	NI	NI	NI	NI	NI	NI	NA	NA
	1/25/06	ND@1	ND@1	ND@1	ND@3	ND	2	ND@25	ND@25	NA	NA
	7/11/06	ND@1	ND@1	ND@1	ND@3	ND	6	ND@25	ND@25	NA	NA
	1/9/07	ND@1	ND@1	ND@1	ND@3	ND	4	ND@10	ND@10	NA	NA
	6/14/07	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5
	11/30/07	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.6
	2/14/08	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5
	5/23/08	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5
	8/7/08	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@0.5
	12/3/08	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@0.5
	2/12/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@0.5
	5/12/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@0.5
	8/19/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	11/4/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	2/26/10	ND@1	ND@1	ND@1	ND@3	ND	15	ND@20	ND@10	ND@100	NA
	5/13/10	ND@1	ND@1	ND@1	ND@3	ND	15	ND@20	ND@10	ND@100	NA
	8/17/10	ND@1	ND@1	ND@1	ND@3	ND	**64**	ND@20	ND@10	ND@100	NA
	11/28/10	ND@1	ND@1	ND@1	ND@3	ND	4	ND@20	ND@10	ND@100	NA
	2/2/11	ND@1	ND@1	ND@1	ND@3	ND	5	ND@20	ND@10	ND@100	NA
	6/28/11	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	9/29/11	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	12/20/11	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	3/8/12	ND@1	ND@1	ND@1	ND@3	ND	4.2	ND@20	ND@10	ND@100	NA
	6/8/12	ND@1	ND@1	ND@1	ND@3	ND	2.3	ND@20	ND@10	ND@100	NA
	9/19/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	12/21/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	3/29/13	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	6/5/13	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	9/25/13	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	12/16/13	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	3/11/14	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	6/9/14	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	9/16/14	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	12/3/14	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
MW-5	7/25/05	NI	NI	NI	NI	NI	NI	NI	NI	NA	NA
	1/25/06	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@25	ND@25	NA	NA
	7/11/06	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@25	ND@25	NA	NA
	1/9/07	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	NA	NA
	6/14/07	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5
	11/30/07	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5
	2/14/08	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5
	5/23/08	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5
	8/7/08	ND@1	ND@1	ND@1	ND@3	ND	7	ND@20	ND@10	ND@100	ND@0.5
	12/3/08	ND@1	ND@1	ND@1	ND@3	ND	1	ND@20	ND@10	ND@100	ND@0.5
	2/12/09	ND@1	ND@1	ND@1	ND@3	ND	1	ND@20	ND@10	ND@100	ND@0.5
	5/12/09	ND@1	ND@1	ND@1	ND@3	ND	5	ND@20	ND@10	ND@100	ND@0.5
	8/19/09	ND@1	ND@1	ND@1	ND@3	ND	3	ND@20	ND@10	ND@100	NA
	11/4/09	ND@1	ND@1	ND@1	ND@3	ND	5	ND@20	ND@10	ND@100	NA
	2/26/10	ND@1	ND@1	ND@1	ND@3	ND	5	ND@20	ND@10	ND@100	NA
	5/13/10	ND@1	ND@1	ND@1	ND@3	ND	6	ND@20	ND@10	ND@100	NA
	8/17/10	ND@1	ND@1	ND@1	ND@3	ND	4	ND@20	ND@10	ND@100	NA
	11/28/10	ND@1	ND@1	ND@1	ND@3	ND	6	ND@20	ND@10	ND@100	NA
	2/2/11	ND@1	ND@1	ND@1	ND@3	ND	7	ND@20	ND@10	ND@100	NA
	6/28/11	ND@1	ND@1	ND@1	ND@3	ND	3	ND@20	ND@10	ND@100	NA
	9/29/11	ND@1	ND@1	ND@1	ND@3	ND	4	ND@20	ND@10	ND@100	NA
	12/20/11	ND@1	ND@1	ND@1	ND@3	ND	2.4	ND@20	ND@10	ND@100	NA
	3/8/12	ND@1	ND@1	ND@1	ND@3	ND	1.2	ND@20	ND@10	ND@100	NA
	6/8/12	ND@1	ND@1	ND@1	ND@3	ND	2.0	ND@20	ND@10	ND@100	NA
	9/19/12	ND@1	ND@1	ND@1	ND@3	ND	1.4	ND@20	ND@10	ND@100	NA
	12/21/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	3/29/13	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	6/5/13	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	9/25/13	ND@1	ND@1	ND@1	ND@3	ND	1.1	ND@20	ND@10	ND@100	NA
	12/16/13	ND@1	ND@1	ND@1	ND@3	ND	1.6	ND@20	ND@10	ND@100	NA
	3/11/14	ND@1	ND@1	ND@1	ND@3	ND	1.3	ND@20	ND@10	ND@100	NA
	6/9/14	ND@1	ND@1	ND@1	ND@3	ND	3.4	ND@20	ND@10	ND@100	NA
	9/16/14	ND@1	ND@1	ND@1	ND@3	ND	2.2	ND@20	ND@10	ND@100	NA
	12/3/14	ND@1	ND@1	ND@1	ND@3	ND	4.2	ND@20	ND@10	ND@100	NA

Table 2: Groundwater Analytical Results
7-Eleven Store No. 32785
Hampstead, Maryland

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	TPH-GRO (µg/L)	TPH-DRO (mg/L)
MW-6	12/3/08	ND@100	ND@100	ND@100	ND@300	ND	**20,000**	ND@2000	ND@1000	**9,600**	ND@0.5
	2/12/09	ND@10	ND@10	ND@10	ND@30	ND	**15,000**	70	550	**2,800**	ND@0.5
	5/12/09	ND@1	ND@1	ND@1	ND@3	ND	**18,000**	470	640	**2,700**	ND@0.5
	8/19/09	ND@1	ND@1	ND@1	ND@3	ND	**17,000**	810	450	**3,300**	NA
	11/4/09	ND@1	ND@1	ND@1	ND@3	ND	**17,000**	1,500	370	**33,000**	NA
	2/26/10	ND@1	ND@1	ND@1	ND@3	ND	**14,000**	3,600	230	**16,000**	NA
	5/13/10	ND@1	ND@1	ND@1	ND@3	ND	**12,000**	3,400	180	**15,000**	NA
	6/11/10	ND@1	ND@1	ND@1	ND@3	ND	**11,000**	4,500	230	**14,000**	NA
	8/17/10	ND@1	ND@1	ND@1	ND@3	ND	**14,000**	1,300	250	**19,000**	NA
	11/28/10	ND@1	ND@1	ND@1	ND@3	ND	**11,000**	2,500	200	**12,000**	NA
	2/2/11	ND@1	ND@1	ND@1	ND@3	ND	**9,300**	1,500	180	**14,000**	NA
	5/26/11	ND@1	ND@1	ND@1	ND@3	ND	**6,700**	400	100	**8,600**	NA
	6/28/11	ND@1	ND@1	ND@1	ND@3	ND	**7,900**	910	90	**8,400**	NA
	9/29/11	ND@1	ND@1	ND@1	ND@3	ND	**8,600**	ND@2000	ND@1000	**4,400**	NA
	12/20/11	ND@1	ND@1	ND@1	ND@3	ND	**6,500**	460	76	**5,100**	NA
	3/8/12	ND@1	ND@1	ND@1	ND@3	ND	**3,200**	210	ND@50	**4,200**	NA
	6/8/12	ND@5	ND@5	ND@5	ND@15	ND	**2,600**	150	ND@50	**3,200**	NA
	9/19/12	ND@1	ND@1	ND@1	ND@3	ND	**2,200**	100	23	**2,300**	NA
	12/21/12	ND@1	ND@1	ND@1	ND@3	ND	**1,900**	58	21	**1,700**	NA
	3/29/13	ND@1	ND@1	ND@1	ND@3	ND	**890**	ND@100	ND@50	**910**	NA
	6/5/13	ND@1	ND@1	ND@1	ND@3	ND	**1,100**	32	12	**1,000**	NA
	9/25/13	ND@1	ND@1	ND@1	ND@3	ND	**1,100**	26	12	**690**	NA
	12/16/13	ND@1	ND@1	ND@1	ND@3	ND	**1,900**	ND@100	ND@50	**2,500**	NA
	3/11/14	ND@1	ND@1	ND@1	ND@3	ND	**1,100**	ND@100	ND@50	**1,900**	NA
	6/9/14	ND@1	ND@1	ND@1	ND@3	ND	**720**	ND@100	ND@50	**720**	NA
	9/16/14	ND@1	ND@1	ND@1	ND@3	ND	**630**	ND@100	ND@50	**640**	NA
	12/3/14	ND@1	ND@1	ND@1	ND@3	ND	**600**	ND@20	ND@10	**500**	NA
MW-7	12/3/08	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@0.5
	2/12/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@0.5
	5/12/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@0.5
	8/19/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	11/4/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	2/26/10	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	5/13/10	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	8/17/10	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	11/28/10	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	2/2/11	ND@1	ND@1	ND@1	ND@3	ND	**160**	ND@20	ND@10	ND@100	NA
	6/28/11	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	9/29/11	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	12/20/11	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	3/8/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	6/8/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	9/19/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	12/21/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	3/29/13	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	6/5/13	ND@1	ND@1	ND@1	ND@3	ND	4.8	ND@20	ND@10	ND@100	NA
	9/25/13	ND@1	ND@1	ND@1	ND@3	ND	19	ND@20	ND@10	ND@100	NA
	12/16/13	ND@1	ND@1	ND@1	ND@3	ND	1.2	ND@20	ND@10	ND@100	NA
	3/11/14	ND@1	ND@1	ND@1	ND@3	ND	15	ND@20	ND@10	ND@100	NA
	6/9/14	ND@1	ND@1	ND@1	ND@3	ND	2.5	ND@20	ND@10	ND@100	NA
	9/16/14	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	12/3/14	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
MW-8	12/3/08	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@0.5
	2/12/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@0.5
	5/12/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@0.5
	8/19/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	11/4/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	2/26/10	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	5/13/10	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	8/17/10	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	11/28/10	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	2/2/11	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	6/28/11	ND@1	ND@1	ND@1	ND@3	ND	**38**	ND@20	ND@10	ND@100	NA
	9/29/11	ND@1	ND@1	ND@1	ND@3	ND	**66**	ND@20	ND@10	ND@100	NA
	12/20/11	ND@1	ND@1	ND@1	ND@3	ND	**69**	ND@20	ND@10	ND@100	NA
	3/8/12	ND@1	ND@1	ND@1	ND@3	ND	**200**	ND@20	ND@10	**290**	NA
	6/8/12	ND@1	ND@1	ND@1	ND@3	ND	**420**	ND@20	12	**570**	NA
	9/19/12	ND@1	ND@1	ND@1	ND@3	ND	**500**	54	17	**580**	NA
	12/21/12	ND@1	ND@1	ND@1	ND@3	ND	**940**	110	38	**1,000**	NA
	3/29/13	ND@1	ND@1	ND@1	ND@3	ND	**1,100**	150	55	**1,000**	NA
	6/5/13	ND@1	ND@1	ND@1	ND@3	ND	**1,200**	180	50	**1,200**	NA
	9/25/13	ND@1	ND@1	ND@1	ND@3	ND	**1,200**	150	48	**1,000**	NA
	12/16/13	ND@1	ND@1	ND@1	ND@3	ND	**530**	ND@20	ND@10	**600**	NA
	3/11/14	ND@1	ND@1	ND@1	ND@3	ND	**1,000**	ND@20	ND@10	**890**	NA
	6/9/14	ND@1	ND@1	ND@1	ND@3	ND	**420**	ND@20	ND@10	**350**	NA
	9/16/14	ND@1	ND@1	ND@1	ND@3	ND	**60**	ND@20	ND@10	ND@100	NA
	12/3/14	ND@1	ND@1	ND@1	ND@3	ND	**16**	ND@20	ND@10	ND@100	NA
MW-9	6/11/10	ND@1	ND@1	ND@1	ND@3	ND	18	ND@20	ND@10	ND@100	NA
	8/17/10	ND@1	ND@1	ND@1	ND@3	ND	**32**	ND@20	ND@10	ND@100	NA
	11/28/10	ND@1	ND@1	ND@1	ND@3	ND	**40**	ND@20	ND@10	ND@100	NA
	2/2/11	ND@1	ND@1	ND@1	ND@3	ND	**130**	ND@20	ND@10	**140**	NA
	6/28/11	ND@1	ND@1	ND@1	ND@3	ND	**340**	ND@20	ND@10	**350**	NA
	9/29/11	ND@1	ND@1	ND@1	ND@3	ND	**520**	ND@20	ND@10	**340**	NA
	12/20/11	ND@5	ND@5	ND@5	ND@15	ND	**440**	ND@100	ND@50	**390**	NA
	3/8/12	ND@5	ND@5	ND@5	ND@15	ND	**240**	30	ND@10	**390**	NA
	6/8/12	ND@1	ND@1	ND@1	ND@3	ND	**290**	34	ND@10	**380**	NA
	9/19/12	ND@1	ND@1	ND@1	ND@3	ND	**820**	190	34	**920**	NA
	12/21/12	ND@1	ND@1	ND@1	ND@3	ND	**360**	52	14	**360**	NA
	3/29/13	ND@1	ND@1	ND@1	ND@3	ND	**280**	35	12	**330**	NA
	6/5/13	ND@1	ND@1	ND@1	ND@3	ND	**490**	83	21	**540**	NA
	9/25/13	ND@1	ND@1	ND@1	ND@3	ND	**1,200**	220	51	**980**	NA
	12/16/13	ND@1	ND@1	ND@1	ND@3	ND	**240**	ND@20	ND@10	**290**	NA
	3/11/14	ND@1	ND@1	ND@1	ND@3	ND	**3,500**	840	140	**3,800**	NA
	6/9/14	ND@1	ND@1	ND@1	ND@3	ND	**760**	ND@20	21	**660**	NA
	9/16/14	ND@1	ND@1	ND@1	ND@3	ND	**450**	ND@20	21	**470**	NA
	12/3/14	ND@1	ND@1	ND@1	ND@3	ND	**310**	ND@20	ND@10	**260**	NA

Table 2: Groundwater Analytical Results
7-Eleven Store No. 32785
Hampstead, Maryland

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	TPH-GRO (µg/L)	TPH-DRO (mg/L)
MW-10	6/11/10	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	8/17/10	10	3	ND@1	ND@3	13	ND@1	ND@20	ND@10	ND@100	NA
	11/28/10	12	2	ND@1	ND@3	14	ND@1	ND@20	ND@10	ND@100	NA
	2/2/11	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	6/28/11	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	9/29/11	ND@1	ND@1	ND@1	ND@3	ND	2	ND@20	ND@10	ND@100	NA
	12/20/11	ND@1	ND@1	ND@1	ND@3	ND	16	ND@20	ND@10	ND@100	NA
	3/8/12	ND@1	ND@1	ND@1	ND@3	ND	10	ND@20	ND@10	ND@100	NA
	6/8/12	ND@1	ND@1	ND@1	ND@3	ND	**38**	ND@20	ND@10	ND@100	NA
	9/19/12	ND@1	ND@1	ND@1	ND@3	ND	**170**	ND@20	ND@10	**190**	NA
	12/21/12	ND@1	ND@1	ND@1	ND@3	ND	**97**	ND@20	ND@10	ND@100	NA
	3/29/13	ND@1	ND@1	ND@1	ND@3	ND	**230**	22	ND@10	**290**	NA
	6/5/13	ND@1	ND@1	ND@1	ND@3	ND	**88**	ND@20	ND@10	ND@100	NA
	9/25/13	ND@1	ND@1	ND@1	ND@3	ND	**200**	ND@20	ND@10	**1,200**	NA
	12/16/13	ND@1	ND@1	ND@1	ND@3	ND	2	ND@20	ND@10	ND@100	NA
	3/11/14	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	6/9/14	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	9/16/14	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	12/3/14	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
INJ-1	11/4/09	ND@1	ND@1	ND@1	ND@3	ND	**23,000**	3,600	290	**44,000**	NA
	2/26/10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
INJ-2	11/4/09	ND@1	ND@1	ND@1	ND@3	ND	**8,900**	ND@20	140	**17,000**	NA
	2/26/10	ND@1	ND@1	ND@1	ND@3	ND	**26,000**	5,200	170	**29,000**	NA
INJ-3	11/4/09	ND@1	ND@1	ND@1	ND@3	ND	**660**	ND@20	25	**880**	NA
	2/26/10	ND@1	ND@1	ND@1	ND@3	ND	**330**	88	ND@10	**330**	NA
INJ-4	11/4/09	ND@1	ND@1	ND@1	ND@3	ND	**360**	ND@20	ND@10	**480**	NA
	2/26/10	ND@1	ND@1	ND@1	ND@3	ND	**110**	24	ND@10	**110**	NA
7-11 Potable Well	7/1/05	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	ND@0.5	ND@5	ND@5	NA	NA
	1/25/06	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	ND@0.5	ND@5	ND@5	NA	NA
	7/11/06	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	ND@0.5	ND@5	ND@5	NA	NA
	1/9/07	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	ND@0.5	ND@10	ND@10	NA	NA
	6/14/07	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	ND@0.5	ND@0.5	ND@0.5	ND@100	ND@0.5
	11/30/07	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	ND@0.5	ND@0.5	ND@0.5	NA	NA
	5/23/08	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	ND@0.5	ND@0.5	ND@0.5	ND@100	ND@0.5
	8/7/08	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	ND@0.5	ND@20	ND@5	NA	NA
	12/3/08	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	ND@0.5	ND@20	ND@5	NA	NA
	5/12/09	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	ND@0.5	ND@20	ND@5	NA	NA
	3/4/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	ND@0.5	ND@20	ND@5	NA	NA
	8/17/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	0.8	ND@20	ND@5	NA	NA
	1/4/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	1.6	ND@20	ND@5	NA	NA
	1/25/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	2	ND@20	ND@5	NA	NA
	6/28/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	1.6	ND@20	ND@5	NA	NA
	2/17/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	ND@0.5	ND@20	ND@5	NA	NA
	6/26/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	1.7	ND@10	ND@0.5	NA	NA
	9/19/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	ND@0.5	ND@20	ND@5	NA	NA
	9/25/13	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	ND@0.5	ND@20	ND@5	NA	NA
	3/11/14	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	ND@0.5	ND@20	ND@5	NA	NA
	6/9/14	NOT SAMPLED - MDE APPROVED CHANGE TO ANNUAL									
	9/16/14	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	ND@0.5	ND@20	ND@5	NA	NA
MDE CLEANUP STD		**5**	**1,000**	**700**	**10,000**	**--**	**20**	--	--	**47**	**47**

BTEX - Total Benzene, Toluene, Ethylbenzene and Xylenes
MTBE - Methyl Tert-Butyl Ether
TBA - Tert-Butyl Alcohol
TAME - Tert-Amyl Methyl Ether
µg/L - micrograms-per-liter
Bold - indicates level above the MDE Cleanup Standard

ND@x - not detected above laboratory detection level of x
ND - not detected
NI - not installed
NA - not analyzed
NS - inaccessible
E - estimated result; exceeds calibration range

Table 3: 124 Hanover Pike Sampling Results
7-Eleven Store No. 32785
Hampstead, Maryland

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	TPH-GRO (µg/L)	Diisopropyl Ether
124 Hanover Pike - Influent	4/1/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	**3,100**	480	73	**2,100**	16
	4/15/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	**2,500**	300 E	60	**2,000**	13
	6/1/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	**1,600**	340	46	**1,600**	12
	6/8/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	**1,500**	380	66	**1,400**	13
	6/17/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	**920**	41	21	**840**	9
	6/22/10	ND@5	ND@5	ND@5	ND@15	BDL	**1,500**	ND@200	ND@50	NA	ND@50
	6/29/10	ND@5	ND@5	ND@5	ND@15	BDL	**900**	88	19	NA	8
	7/6/10	ND@5	ND@5	ND@5	ND@15	BDL	**860**	97	23	NA	10
	7/13/10	ND@5	ND@5	ND@5	ND@15	BDL	**750**	190	24	NA	8
	7/20/10	ND@5	ND@5	ND@5	ND@15	BDL	**770**	130	21	NA	7
	7/27/10	ND@5	ND@5	ND@5	ND@15	BDL	**1,300**	280	33	NA	11
	7/27/10	ND@5	ND@5	ND@5	ND@15	BDL	**1,300**	280	33	NA	11
	8/10/10	ND@5	ND@5	ND@5	ND@15	BDL	**480**	ND@200	ND@50	NA	ND@50
	8/24/10	ND@5	ND@5	ND@5	ND@15	BDL	**1,700**	230	42	NA	10
	8/27/10	--	--	--	--	--	--	--	--	--	--
	9/9/10	ND@5	ND@5	ND@5	ND@15	BDL	**820**	79	24	NA	8
	9/21/10	ND@5	ND@5	ND@5	ND@15	BDL	**750**	52	15	NA	8
	10/5/10	ND@5	ND@5	ND@5	ND@15	BDL	**590**	ND@50	6	NA	9
	10/18/10	ND@5	ND@5	ND@5	ND@15	BDL	**1,400**	65	34	NA	11
	11/2/10	ND@5	ND@5	ND@5	ND@15	BDL	**1,700**	230	43	NA	12
	11/16/10	ND@5	ND@5	ND@5	ND@15	BDL	**1,200**	180	32	NA	10
	11/30/10	ND@5	ND@5	ND@5	ND@15	BDL	**1,800**	310	50	NA	13
	12/14/10	ND@5	ND@5	ND@5	ND@15	BDL	**1,500**	220	42	NA	13
	12/28/10	ND@5	ND@5	ND@5	ND@15	BDL	**1,600**	330	46	NA	13
	1/11/11	ND@5	ND@5	ND@5	ND@15	BDL	**820**	530	41	NA	13
	1/25/11	ND@5	ND@5	ND@5	ND@15	BDL	**1,700**	ND@400	ND@100	NA	ND@100
	2/8/11	ND@5	ND@5	ND@5	ND@15	BDL	**1,700**	190	45	NA	13
	3/1/11	ND@5	ND@5	ND@5	ND@15	BDL	**1,300**	78	36	NA	13
	3/15/11	ND@5	ND@5	ND@5	ND@15	BDL	**980**	53	24	NA	10
	4/12/11	ND@5	ND@5	ND@5	ND@15	BDL	**1,400**	120	39	NA	12
	5/11/11	ND@5	ND@5	ND@5	ND@15	BDL	**1,900**	180	46	NA	13
	6/14/11	ND@5	ND@5	ND@5	ND@15	BDL	**1,700**	120	42	NA	14
	7/12/11	ND@5	ND@5	ND@5	ND@15	BDL	**1,200**	ND@20	25	NA	11
	8/16/11	ND@5	ND@5	ND@5	ND@15	BDL	**870**	ND@20	18	NA	8
	9/12/11	ND@5	ND@5	ND@5	ND@15	BDL	**1,400**	68	33	NA	13
	10/14/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	**1,700**	130	47	NA	14
	11/8/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	**2,000**	150	47	NA	14
	12/20/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	**1,500**	90	39	NA	12
	1/18/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	**1,200**	100	32	NA	12
	2/21/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	**1,100**	65	27	NA	10
	3/8/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	**1,100**	53	25	NA	9.8
	4/20/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	**1,200**	88	28	NA	10
	5/22/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	**670**	ND@20	13	NA	8.2
	6/26/12	ND@25	ND@25	ND@25	ND@25	BDL	**1,400**	ND@25	31	NA	ND@25
	7/17/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	**1,000**	67	23	NA	9.8
	8/21/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	**290**	ND@20	ND@5	NA	5.7
	9/19/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	**1,100**	67	22	NA	9.7
	10/25/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	**730**	23	12	NA	8.7
	12/21/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	**460**	ND@20	1/8/00	NA	1/7/00
	1/22/13	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	**450**	ND@20	ND@5	NA	ND@5
	2/26/13	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	**330**	ND@20	ND@5	NA	ND@5
	4/17/13	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	**260**	ND@20	ND@5	NA	6
	6/28/13	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	**170**	ND@20	ND@5	NA	6
	8/30/13	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	**130**	ND@20	ND@5	NA	6
	10/28/13	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	**220**	22	ND@5	NA	7
	12/16/13	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	**56**	ND@20	ND@5	NA	6
	1/13/14	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	7.2	ND@20	ND@5	NA	ND@5
	2/18/14	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	**32**	ND@20	ND@5	NA	ND@5
	5/3/14	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	6.2	ND@20	ND@5	NA	ND@5
	6/24/14	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	0.54	ND@20	ND@5	NA	ND@5
	9/16/14	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	NA	ND@5
	10/31/14	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	NA	ND@5
GAC - 1	6/1/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	6/8/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	6/17/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	6/22/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	6/29/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	7/6/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	47	ND@5	ND@100	ND@5
	7/13/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	31	ND@5	ND@100	ND@5
	7/20/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	22	ND@5	ND@100	ND@5
	7/27/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	8/10/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	8/24/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	9/9/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	2.1	ND@20	ND@5	ND@100	ND@5
	9/21/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	10/5/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	10/18/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	11/2/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	11/16/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	11/30/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	12/14/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	12/28/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	1/11/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	33	ND@5	ND@100	ND@5
	1/25/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	62	ND@5	ND@100	ND@5
	2/8/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	61	ND@5	ND@100	ND@5
	3/1/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5

Table 3: 124 Hanover Pike Sampling Results
7-Eleven Store No. 32785
Hampstead, Maryland

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	TPH-GRO (µg/L)	Diisopropyl Ether
	3/15/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	4/12/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	5/11/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	48	ND@5	ND@100	ND@5
	6/14/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	170	ND@5	ND@100	ND@5
	7/12/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	8/16/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	9/12/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	25	ND@5	ND@100	ND@5
	10/14/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	41	ND@5	ND@100	ND@5
	11/8/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	12/20/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	37	ND@5	ND@100	ND@5
	1/18/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	84	ND@5	ND@100	ND@5
	2/21/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	96	ND@5	ND@100	ND@5
	3/8/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	4/20/12	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@0.5	ND@20	ND@5	ND@100	ND@5
	5/22/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	6/26/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	120	ND@0.5	ND@100	ND@5
	7/17/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	8/21/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	9/19/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	10/25/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	12/21/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	1/22/13	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	2/26/13	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	4/17/13	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	6/28/13	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	8/30/13	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	10/28/13	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	12/16/13	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	1.7	ND@20	ND@5	ND@100	ND@5
	1/13/14	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	1.4	ND@20	ND@5	ND@100	ND@5
	2/18/14	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	4.3	ND@20	ND@5	ND@100	ND@5
	5/3/14	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	1.5	ND@20	ND@5	ND@100	ND@5
	6/24/14	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	0.77	ND@20	ND@5	ND@100	ND@5
	9/16/14	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	10/31/14	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
GAC - 2	6/1/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	6/8/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	6/17/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	6/22/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	6/29/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	7/6/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	7/13/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	7/20/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	7/27/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	8/10/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	8/24/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	9/9/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	9/21/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	10/5/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	10/18/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	11/2/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	11/16/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	11/30/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	12/14/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	12/28/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	1/11/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	1/25/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	2/8/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	3/1/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	3/15/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	4/12/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	5/11/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	6/14/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	7/12/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	8/16/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	9/12/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	10/14/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	11/8/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	12/20/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	1/18/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	2/21/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	3/8/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	4/20/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	5/22/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	6/26/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	34	ND@0.5	ND@100	ND@5
	7/17/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	8/21/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	9/19/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	10/25/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	12/21/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	1/22/13	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	2/26/13	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	4/17/13	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	6/28/13	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	8/30/13	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	10/28/13	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	12/16/13	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	1/13/14	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	2/18/14	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	5/3/14	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	6/24/14	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	6/24/14	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5

Table 3: 124 Hanover Pike Sampling Results
7-Eleven Store No. 32785
Hampstead, Maryland

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	TPH-GRO (µg/L)	Diisopropyl Ether
Final Effluent	6/1/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	6/22/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	6/29/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	7/6/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	7/13/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	7/20/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	7/27/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	8/10/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	8/24/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	9/9/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	9/21/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	10/5/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	10/18/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	11/2/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	11/16/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	11/30/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	12/14/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	12/28/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	1/11/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	1/25/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	2/8/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	3/1/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	3/15/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	4/12/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	5/11/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	6/14/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	7/12/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	8/16/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	9/12/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	10/14/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	11/8/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	12/20/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	1/18/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	2/21/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	3/8/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	4/20/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	5/22/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	6/26/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@10	ND@0.5	ND@100	ND@5
	7/17/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	8/21/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	9/19/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	10/25/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	12/21/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	1/22/13	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	2/26/13	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	4/17/13	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	6/28/13	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	8/30/13	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	10/28/13	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	12/16/13	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	1/13/14	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	2/18/14	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	5/3/14	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	6/24/14	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	9/16/14	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	10/31/14	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
MDE CLEANUP STD		**5**	**1,000**	**700**	**10,000**	**--**	**20**	--	--	**47**	--

BTEX - Total Benzene, Toluene, Ethylbenzene and Xylenes
MTBE - Methyl Tert-Butyl Ether
TBA - Tert-Butyl Alcohol
TAME - Tert-Amyl Methyl Ether
µg/L - micrograms-per-liter
ND@x - not detected above laboratory detection level of x

ND - not detected
NI - not installed
NA - not analyzed
NS - inaccessible
E - estimated result; exceeds calibration range
Bold - indicates level above the MDE Cleanup Standard

Table 4
Residential Potable Well Sampling Results
7-Eleven Store No. 32785
Hampstead, Maryland

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	TPH-GRO (µg/L)
114 Hanover Pike	6/2/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	ND@0.5	ND@20	ND@5	ND@100
	11/16/10	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/26/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	ND@0.5	ND@20	ND@5	ND@100
	6/28/13	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	ND@0.5	ND@20	ND@5	ND@100
	6/24/14	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	ND@0.5	ND@20	ND@5	NA
118 Hanover Pike	6/2/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	1.3	ND@20	ND@5	ND@100
	11/16/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	0.9	ND@20	ND@5	ND@100
	6/24/14	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	ND@0.5	ND@20	ND@5	NA
95 Phillips Drive	6/2/10	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/16/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	ND@0.5	ND@20	ND@5	ND@100
	6/26/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	ND@0.5	ND@20	ND@5	ND@100
	6/28/13	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	ND@0.5	ND@20	ND@5	ND@100
MDE CLEANUP STD		**5**	**1,000**	**700**	**10,000**	**--**	**20**	--	--	**47**

BTEX - Total Benzene, Toluene, Ethylbenzene and Xylenes
MTBE - Methyl Tert-Butyl Ether
TBA - Tert-Butyl Alcohol
TAME - Tert-Amyl Methyl Ether
µg/L - micrograms-per-liter
ND@x - not detected above laboratory detection level of x
ND - not detected
NS - inaccessible; could not contact property owner/residents
Bold - indicates level above the MDE Cleanup Standard

Table 5
Groundwater Remediation System Performance Data
7-Eleven Store No. 32785
Hampstead, MD

MW-8					
Date	Pump MW-8 (gallons)	Change from previous (gallons)	Average GPD	Average GPM	Total Gallons Removed (since activation)
10/8/2013	131	**	**	**	131
10/9/2013	477	346	346	0.24	477
10/10/2013	1,940	1,463	1,463	1.02	1,940
10/14/2013	7,922	5,982	1,496	1.04	7,922
10/17/2013	14,983	7,061	2,354	1.63	14,983
10/21/2013	23,351	8,368	2,092	1.45	23,351
10/25/2013	31,526	8,175	2,044	1.42	31,526
10/28/2013	38,184	6,658	2,219	1.54	38,184
11/14/2013	70,341	32,157	1,892	1.31	70,341
11/25/2013	89,282	18,941	1,722	1.20	89,282
12/16/2013	123,263	33,981	1,618	1.12	123,263
12/31/2013	137,828	14,565	971	0.67	137,828
1/13/2014	148,714	10,886	837	0.58	148,714
1/28/2014	157,920	9,206	614	0.43	157,920
1/29/2014	159,504	1,584	1,584	1.10	159,504
2/10/2014	178,602	19,098	1,592	1.11	178,602
2/18/2014	191,040	12,438	1,555	1.08	191,040
2/25/2014	201,813	10,773	1,539	1.07	201,813
3/4/2014	212,660	10,847	1,550	1.08	212,660
3/11/2014	222,547	9,887	1,412	0.98	222,547
3/18/2014	231,308	8,761	1,252	0.87	231,308
3/24/2014	238,524	7,216	1,203	0.84	238,524
3/31/2014	246,694	8,170	1,167	0.81	246,694
4/8/2014	255,420	8,726	1,091	0.76	255,420
4/14/2014	262,270	6,850	1,142	0.79	262,270
4/21/2014	270,014	7,744	1,106	0.77	270,014
4/28/2014	279,151	9,137	1,305	0.91	279,151
5/6/2014	290,495	11,344	1,418	0.98	290,495
5/7/2014	291,653	1,158	1,158	0.80	291,653
5/8/2014	293,177	1,524	1,524	1.06	293,177
5/12/2014	298,580	5,403	1,351	0.94	298,580
5/15/2014	302,212	3,632	1,211	0.84	302,212
5/16/2014	303,575	1,363	1,363	0.95	303,575
5/21/2014	309,961	6,386	1,277	0.89	309,961
5/23/2014	312,090	2,129	1,065	0.74	312,090
5/27/2014	317,206	5,116	1,279	0.89	317,206
6/9/2014	332,887	15,681	1,206	0.84	332,887
6/24/2014	351,101	18,214	1,214	0.84	351,101
7/9/2014	369,390	18,289	1,219	0.85	369,390
7/23/2014	386,232	16,842	1,203	0.84	386,232
8/5/2014	402,140	15,908	1,224	0.85	402,140
8/22/2014	422,431	20,291	1,194	0.83	422,431
9/2/2014	435,525	13,094	1,190	0.83	435,525
9/16/2014	451,612	16,087	1,149	0.80	451,612
10/13/2014	482,371	30,759	1,139	0.79	482,371
10/31/2014	502,330	19,959	1,109	0.77	502,330
11/10/2014	513,512	11,182	1,118	0.78	513,512
11/24/2014	528,740	15,228	1,088	0.76	528,740
12/3/2014	538,537	9,797	1,089	0.76	538,537
12/29/2014	565,732	27,195	1,046	0.73	565,732

MW-9					
Date	Pump MW-9 (gallons)	Change from previous (gallons)	Average GPD	Average GPM	Total Gallons Removed (since activation)
10/8/2013	114	**	**	**	114
10/9/2013	398	284	284	0.20	398
10/10/2013	398	0	0	0.00	398
10/14/2013	398	0	0	0.00	398
10/17/2013	1,792	1,394	465	0.32	1,792
10/21/2013	4,409	2,617	654	0.45	4,409
10/25/2013	6,860	2,451	613	0.43	6,860
10/28/2013	8,762	1,902	634	0.44	8,762
11/14/2013	14,917	6,155	362	0.25	14,917
11/25/2013	17,618	2,701	246	0.17	17,618
12/16/2013	23,147	5,529	263	0.18	23,147
12/31/2013	26,235	3,088	206	0.14	26,235
1/13/2014	27,393	1,158	89	0.06	27,393
1/28/2014	27,393	0	0	0.00	27,393
1/29/2014	27,393	0	0	0.00	27,393
2/10/2014	27,393	0	0	0.00	27,393
2/18/2014	27,393	0	0	0.00	27,393
2/25/2014	27,393	0	0	0.00	27,393
3/4/2014	27,393	0	0	0.00	27,393
3/11/2014	27,393	0	0	0.00	27,393
3/18/2014	27,393	0	0	0.00	27,393
3/24/2014	27,393	0	0	0.00	27,393
3/31/2014	27,393	0	0	0.00	27,393
4/8/2014	27,393	0	0	0.00	27,393
4/14/2014	27,393	0	0	0.00	27,393
4/21/2014	27,393	0	0	0.00	27,393
4/28/2014	27,393	0	0	0.00	27,393
5/6/2014	27,393	0	0	0.00	27,393
5/7/2014	28,010	617	617	0.43	28,010
5/8/2014	28,774	764	764	0.53	28,774
5/12/2014	31,800	3,026	757	0.53	31,800
5/15/2014	33,025	1,225	408	0.28	33,025
5/16/2014	33,645	620	620	0.43	33,645
5/21/2014	34,231	586	117	0.08	34,231
5/23/2014	35,110	879	440	0.31	35,110
5/27/2014	37,187	2,077	519	0.36	37,187
6/9/2014	43,314	6,127	471	0.33	43,314
6/24/2014	50,260	6,946	463	0.32	50,260
7/9/2014	57,197	6,937	462	0.32	57,197
7/23/2014	63,434	6,237	446	0.31	63,434
8/5/2014	69,219	5,785	445	0.31	69,219
8/22/2014	76,517	7,298	429	0.30	76,517
9/2/2014	81,269	4,752	432	0.30	81,269
9/16/2014	87,168	5,899	421	0.29	87,168
10/13/2014	99,322	12,154	450	0.31	99,322
10/31/2014	107,002	7,680	427	0.30	107,002
11/10/2014	111,271	4,269	427	0.30	111,271
11/24/2014	117,038	5,767	412	0.29	117,038
12/3/2014	120,706	3,668	408	0.28	120,706
12/29/2014	130,836	10,130	390	0.27	130,836

MW-10					
Date	Pump MW-10 (gallons)	Change from previous (gallons)	Average GPD	Average GPM	Total Gallons Removed (since activation)
10/8/2013	183	**	**	**	183
10/9/2013	1,673	1,490	1,490	1.03	1,673
10/10/2013	3,600	1,927	1,927	1.34	3,600
10/14/2013	11,540	7,940	1,985	1.38	11,540
10/17/2013	21,140	9,600	3,200	2.22	21,140
10/21/2013	32,540	11,400	2,850	1.98	32,540
10/25/2013	47,980	15,440	3,860	2.68	47,980
10/28/2013	60,680	12,700	4,233	2.94	60,680
11/14/2013	126,225	65,545	3,856	2.68	126,225
11/25/2013	180,720	54,495	4,954	3.44	180,720
12/16/2013	285,260	104,540	4,978	3.46	285,260
12/31/2013	332,092	46,832	3,122	2.17	332,092
1/13/2014	369,070	36,978	2,844	1.98	369,070
1/28/2014	401,120	32,050	2,137	1.48	401,120
1/29/2014	406,695	5,575	5,575	3.87	406,695
2/10/2014	462,080	55,385	4,615	3.21	462,080
2/18/2014	503,535	41,455	5,182	3.60	503,535
2/25/2014	540,925	37,390	5,341	3.71	540,925
3/4/2014	579,263	38,338	5,477	3.80	579,263
3/11/2014	614,575	35,312	5,045	3.50	614,575
3/18/2014	652,500	37,925	5,418	3.76	652,500
3/24/2014	684,480	31,980	5,330	3.70	684,480
3/31/2014	721,586	37,106	5,301	3.68	721,586
4/8/2014	762,533	40,947	5,118	3.55	762,533
4/14/2014	795,757	33,224	5,537	3.85	795,757
4/21/2014	833,580	37,823	5,403	3.75	833,580
4/28/2014	870,358	36,778	5,254	3.65	870,358
5/6/2014	912,349	41,991	5,249	3.65	912,349
5/7/2014	914,776	2,427	2,427	1.69	914,776
5/8/2014	918,471	3,695	3,695	2.57	918,471
5/12/2014	936,670	18,199	4,550	3.16	936,670
5/15/2014	948,992	12,322	4,107	2.85	948,992
5/16/2014	953,973	4,981	4,981	3.46	953,973
5/21/2014	975,498	21,525	4,305	2.99	975,498
5/23/2014	982,944	7,446	3,723	2.59	982,944
5/27/2014	1,000,000	17,056	4,264	2.96	1,000,000
6/9/2014	1,055,974	55,974	4,306	2.99	1,055,974
6/24/2014	1,121,024	65,050	4,337	3.01	1,121,024
7/9/2014	1,187,345	66,321	4,421	3.07	1,187,345
7/23/2014	1,248,531	61,186	4,370	3.04	1,248,531
8/5/2014	1,306,277	57,746	4,442	3.08	1,306,277
8/22/2014	1,381,383	75,106	4,418	3.07	1,381,383
9/5/2014	1,431,471	50,088	3,578	2.48	1,431,471
9/16/2014	1,495,075	63,604	5,782	4.02	1,495,075
10/13/2014	1,620,949	125,874	4,662	3.24	1,620,949
10/31/2014	1,705,814	84,865	4,715	3.27	1,705,814
11/10/2014	1,754,940	49,126	4,913	3.41	1,754,940
11/24/2014	1,823,595	68,655	4,904	3.41	1,823,595
12/3/2014	1,868,917	45,322	5,036	3.50	1,868,917
12/29/2014	2,721,153	852,236	32,778	22.76	2,721,153

** = data not available due to system startup on October 8, 2013
GPD - gallons-per-day
GPM- gallons-per-minute

Flow restriction issues resulted in the inoperability of the pump in MW-9 from 1/28/14 through 5/6/14

Table 6
Summary of Treatment System Analytical Results
7-Eleven Store No. 32785
Hampstead, MD

	Air Stripper Influent									Air Stripper Effluent									GAC 1 Effluent									GAC 2 Effluent								
Date	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX	MTBE	Tert-Butanol	TAME	TPH-GRO	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX	MTBE	Tert-Butanol	TAME	TPH-GRO	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX	MTBE	Tert-Butanol	TAME	TPH-GRO	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX	MTBE	Tert-Butanol	TAME	TPH-GRO
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
10/17/13	ND@1	ND@1	ND@1	ND@3	ND	530	20	12	370	ND@1	ND@1	ND@1	ND@3	ND	1.2	30	ND@10	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100
10/28/13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100
11/14/13	ND@1	ND@1	ND@1	ND@3	ND	390	22	ND@10	260	ND@1	ND@1	ND@1	ND@3	ND	2.0	ND@20	ND@10	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NS	NS	NS	NS	NS	NS	NS	NS	NS
11/25/13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100
12/16/13	ND@1	ND@1	ND@1	ND@3	ND	140	ND@20	ND@10	160	ND@1	ND@1	ND@1	ND@3	ND	1.7	ND@20	ND@10	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100
1/13/14	ND@1	ND@1	ND@1	ND@3	ND	230	ND@20	ND@10	230	ND@1	ND@1	ND@1	ND@3	ND	3.6	ND@20	ND@10	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100
2/10/14	ND@1	ND@1	ND@1	ND@3	ND	8.8	ND@20	ND@10	120	ND@1	ND@1	ND@1	ND@3	ND	2.7	ND@20	ND@10	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NS	NS	NS	NS	NS	NS	NS	NS	NS
2/25/14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100
3/11/14	ND@1	ND@1	ND@1	ND@3	ND	230	ND@20	ND@10	210	ND@1	ND@1	ND@1	ND@3	ND	2.4	ND@20	ND@10	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100
3/24/14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100
4/8/14	ND@1	ND@1	ND@1	ND@3	ND	240	ND@20	ND@10	170	ND@1	ND@1	ND@1	ND@3	ND	1.6	ND@20	ND@10	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100
4/21/14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100
5/7/14	ND@1	ND@1	ND@1	ND@3	ND	180	25	ND@10	260	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100
5/20/14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100
6/9/14	ND@1	ND@1	ND@1	ND@3	ND	180	ND@20	ND@10	180	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100
6/24/14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100
7/9/14	ND@1	ND@1	ND@1	ND@3	ND	110	ND@20	ND@10	100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100
7/23/14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100
8/5/14	ND@1	ND@1	ND@1	ND@3	ND	85	ND@20	ND@10	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100
8/22/14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100
9/2/14	ND@1	ND@1	ND@1	ND@3	ND	59	ND@20	ND@10	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100
9/16/14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100
10/13/14	ND@1	ND@1	ND@1	ND@3	ND	26	ND@20	ND@10	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100
10/31/14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100
11/10/14	ND@1	ND@1	ND@1	ND@3	ND	26	ND@20	ND@10	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100
11/24/14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100
12/3/14	ND@1	ND@1	ND@1	ND@3	ND	24	ND@20	ND@10	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100
12/29/14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100

ug/L = Micrograms-per-liter

TAME - Tert-amyl methyl ether

BTEX - Benzene, toluene, ethylbenzene, total xylenes

ND@x - not detected above laboratory detection limit of "x"

TPH-GRO - total petroleum hydrocarbons-gasoline range organics

MTBE - methyl-tert-butyl ether

NS - not sampled

ATTACHMENT A

Groundwater Laboratory Report – Monitoring Wells

Analytical Report for

AECOM

Certificate of Analysis No.: 14120408

Project Manager: John Canzeri
Project Name : 7-11 Hampstead #32785
Project Location: Hampstead, MD
Project ID : 6014 4916

December 11, 2014

Phase Separation Science, Inc.
6630 Baltimore National Pike
Baltimore, MD 21228
Phone: (410) 747-8770
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PHASE SEPARATION SCIENCE, INC.

December 11, 2014

John Canzeri
AECOM
8000 Virginia Manor Rd, Ste 110
Beltsville, MD 20705

Reference: PSS Work Order(s) No: **14120408**
Project Name: 7-11 Hampstead #32785
Project Location: Hampstead, MD
Project ID.: 6014 4916

Dear John Canzeri :

This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order(s) numbered **14120408**.

All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on January 8, 2015. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt , the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 5 years, after which time it will be disposed of without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Sincerely,

Dan Prucnal
Laboratory Manager

Sample Summary

Client Name: AECOM

Project Name: 7-11 Hampstead #32785

Work Order Number(s): 14120408

Project ID: 6014 4916

The following samples were received under chain of custody by Phase Separation Science (PSS) on 12/04/2014 at 02:00 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
14120408-001	MW1	GROUND WATER	12/03/14 14:45
14120408-002	MW2	GROUND WATER	12/03/14 16:10
14120408-003	MW3	GROUND WATER	12/03/14 15:50
14120408-004	MW4	GROUND WATER	12/03/14 15:30
14120408-005	MW5	GROUND WATER	12/03/14 15:10
14120408-006	MW6	GROUND WATER	12/03/14 16:30
14120408-007	MW7	GROUND WATER	12/03/14 14:30
14120408-008	MW8	GROUND WATER	12/03/14 16:40
14120408-009	MW9	GROUND WATER	12/03/14 16:45
14120408-010	MW10	GROUND WATER	12/03/14 16:50

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

Notes:

1. The presence of a common laboratory contaminant such as methylene chloride may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. Unless otherwise noted in the case narrative, results are reported on a dry weight basis with the exception of pH, flashpoint, moisture, and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminates, and part 141.3, for the secondary drinking water contaminates.
5. Sample prepared under EPA 3550C with concentrations greater than 20 mg/Kg should employ the microtip extraction procedure if required to meet data quality objectives.
6. The analysis of acrolein by EPA 624 must be analyzed within three days of sampling unless pH is adjusted to 4-5 units [40 CFR part 136.3(e)].

Standard Flags/Abbreviations:

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
C Results Pending Final Confirmation.
E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
J The target analyte was positively identified below the reporting limit but greater than the LOD.
LOD Limit of Detection. An estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte and matrix specific.
ND Not Detected at or above the reporting limit.
RL PSS Reporting Limit.
U Not detected.

Certifications:

NELAP Certifications: PA 68-03330, VA 460156
State Certifications: MD 179, WV 303
Regulated Soil Permit: P330-12-00268
NSWC USCG Accepted Laboratory
LDBE MWAA LD1997-0041-2015

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14120408

AECOM, Beltsville, MD

December 11, 2014

Project Name: 7-11 Hampstead #32785
Project Location: Hampstead, MD
Project ID: 6014 4916

Sample ID: MW1 **Date/Time Sampled: 12/03/2014 14:45** **PSS Sample ID: 14120408-001**
Matrix: GROUND WATER **Date/Time Received: 12/04/2014 14:00**

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	12/04/14	12/05/14 00:32	1035

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No: 14120408
AECOM, Beltsville, MD
December 11, 2014

Project Name: 7-11 Hampstead #32785
Project Location: Hampstead, MD
Project ID: 6014 4916

Sample ID: MW1 **Date/Time Sampled: 12/03/2014 14:45** **PSS Sample ID: 14120408-001**
Matrix: GROUND WATER **Date/Time Received: 12/04/2014 14:00**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

pH=3

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	10		1	12/07/14	12/08/14 03:41	1011
tert-Amyl alcohol	ND	ug/L	20		1	12/07/14	12/08/14 03:41	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	12/07/14	12/08/14 03:41	1011
tert-Amyl methyl ether	ND	ug/L	10		1	12/07/14	12/08/14 03:41	1011
Benzene	ND	ug/L	1.0		1	12/07/14	12/08/14 03:41	1011
Bromochloromethane	ND	ug/L	1.0		1	12/07/14	12/08/14 03:41	1011
Bromodichloromethane	ND	ug/L	1.0		1	12/07/14	12/08/14 03:41	1011
Bromoform	ND	ug/L	5.0		1	12/07/14	12/08/14 03:41	1011
Bromomethane	ND	ug/L	1.0		1	12/07/14	12/08/14 03:41	1011
tert-Butyl alcohol	ND	ug/L	20		1	12/07/14	12/08/14 03:41	1011
2-Butanone (MEK)	ND	ug/L	10		1	12/07/14	12/08/14 03:41	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	12/07/14	12/08/14 03:41	1011
Carbon Disulfide	ND	ug/L	10		1	12/07/14	12/08/14 03:41	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	12/07/14	12/08/14 03:41	1011
Chlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 03:41	1011
Chloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 03:41	1011
Chloroform	ND	ug/L	1.0		1	12/07/14	12/08/14 03:41	1011
Chloromethane	ND	ug/L	1.0		1	12/07/14	12/08/14 03:41	1011
Cyclohexane	ND	ug/L	10		1	12/07/14	12/08/14 03:41	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	12/07/14	12/08/14 03:41	1011
Dibromochloromethane	ND	ug/L	1.0		1	12/07/14	12/08/14 03:41	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	12/07/14	12/08/14 03:41	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 03:41	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 03:41	1011
Dichlorodifluoromethane	ND	ug/L	1.0		1	12/07/14	12/08/14 03:41	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 03:41	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 03:41	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 03:41	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	12/07/14	12/08/14 03:41	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	12/07/14	12/08/14 03:41	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14120408
AECOM, Beltsville, MD
December 11, 2014

Project Name: 7-11 Hampstead #32785
Project Location: Hampstead, MD
Project ID: 6014 4916

Sample ID: MW1 **Date/Time Sampled: 12/03/2014 14:45** **PSS Sample ID: 14120408-001**
Matrix: GROUND WATER **Date/Time Received: 12/04/2014 14:00**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

pH=3

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,2-Dichloropropane	ND	ug/L	1.0		1	12/07/14	12/08/14 03:41	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	12/07/14	12/08/14 03:41	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	12/07/14	12/08/14 03:41	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	12/07/14	12/08/14 03:41	1011
Diisopropyl ether	ND	ug/L	10		1	12/07/14	12/08/14 03:41	1011
Ethylbenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 03:41	1011
2-Hexanone	ND	ug/L	10		1	12/07/14	12/08/14 03:41	1011
Isopropylbenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 03:41	1011
Methyl Acetate	ND	ug/L	10		1	12/07/14	12/08/14 03:41	1011
Methylcyclohexane	ND	ug/L	10		1	12/07/14	12/08/14 03:41	1011
Methylene Chloride	ND	ug/L	1.0		1	12/07/14	12/08/14 03:41	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	12/07/14	12/08/14 03:41	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	12/07/14	12/08/14 03:41	1011
Naphthalene	ND	ug/L	1.0		1	12/07/14	12/08/14 03:41	1011
Styrene	ND	ug/L	1.0		1	12/07/14	12/08/14 03:41	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 03:41	1011
Tetrachloroethene	ND	ug/L	1.0		1	12/07/14	12/08/14 03:41	1011
Toluene	ND	ug/L	1.0		1	12/07/14	12/08/14 03:41	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 03:41	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 03:41	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 03:41	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 03:41	1011
Trichloroethene	ND	ug/L	1.0		1	12/07/14	12/08/14 03:41	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	12/07/14	12/08/14 03:41	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 03:41	1011
Vinyl Chloride	ND	ug/L	1.0		1	12/07/14	12/08/14 03:41	1011
m,p-Xylenes	ND	ug/L	2.0		1	12/07/14	12/08/14 03:41	1011
o-Xylene	ND	ug/L	1.0		1	12/07/14	12/08/14 03:41	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14120408

AECOM, Beltsville, MD

December 11, 2014

Project Name: 7-11 Hampstead #32785
Project Location: Hampstead, MD
Project ID: 6014 4916

Sample ID: MW2 **Date/Time Sampled: 12/03/2014 16:10** **PSS Sample ID: 14120408-002**
Matrix: GROUND WATER **Date/Time Received: 12/04/2014 14:00**

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	12/04/14	12/05/14 00:58	1035

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No: 14120408
AECOM, Beltsville, MD
December 11, 2014

Project Name: 7-11 Hampstead #32785
Project Location: Hampstead, MD
Project ID: 6014 4916

Sample ID: MW2 **Date/Time Sampled: 12/03/2014 16:10** **PSS Sample ID: 14120408-002**
Matrix: GROUND WATER **Date/Time Received: 12/04/2014 14:00**

TCL Volatiles plus Oxygenates Analytical Method: SW-846 8260 B Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	10		1	12/07/14	12/08/14 04:15	1011
tert-Amyl alcohol	ND	ug/L	20		1	12/07/14	12/08/14 04:15	1011
tert-Amyl methyl ether	ND	ug/L	10		1	12/07/14	12/08/14 04:15	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	12/07/14	12/08/14 04:15	1011
Benzene	ND	ug/L	1.0		1	12/07/14	12/08/14 04:15	1011
Bromochloromethane	ND	ug/L	1.0		1	12/07/14	12/08/14 04:15	1011
Bromodichloromethane	ND	ug/L	1.0		1	12/07/14	12/08/14 04:15	1011
Bromoform	ND	ug/L	5.0		1	12/07/14	12/08/14 04:15	1011
Bromomethane	ND	ug/L	1.0		1	12/07/14	12/08/14 04:15	1011
tert-Butyl alcohol	ND	ug/L	20		1	12/07/14	12/08/14 04:15	1011
2-Butanone (MEK)	ND	ug/L	10		1	12/07/14	12/08/14 04:15	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	12/07/14	12/08/14 04:15	1011
Carbon Disulfide	ND	ug/L	10		1	12/07/14	12/08/14 04:15	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	12/07/14	12/08/14 04:15	1011
Chlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 04:15	1011
Chloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 04:15	1011
Chloroform	ND	ug/L	1.0		1	12/07/14	12/08/14 04:15	1011
Chloromethane	ND	ug/L	1.0		1	12/07/14	12/08/14 04:15	1011
Cyclohexane	ND	ug/L	10		1	12/07/14	12/08/14 04:15	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	12/07/14	12/08/14 04:15	1011
Dibromochloromethane	ND	ug/L	1.0		1	12/07/14	12/08/14 04:15	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	12/07/14	12/08/14 04:15	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 04:15	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 04:15	1011
Dichlorodifluoromethane	ND	ug/L	1.0		1	12/07/14	12/08/14 04:15	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 04:15	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 04:15	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 04:15	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	12/07/14	12/08/14 04:15	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	12/07/14	12/08/14 04:15	1011

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CERTIFICATE OF ANALYSIS

No: 14120408
AECOM, Beltsville, MD
December 11, 2014

Project Name: 7-11 Hampstead #32785
Project Location: Hampstead, MD
Project ID: 6014 4916

Sample ID: MW2 **Date/Time Sampled: 12/03/2014 16:10** **PSS Sample ID: 14120408-002**
Matrix: GROUND WATER **Date/Time Received: 12/04/2014 14:00**

TCL Volatiles plus Oxygenates Analytical Method: SW-846 8260 B Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,2-Dichloropropane	ND	ug/L	1.0		1	12/07/14	12/08/14 04:15	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	12/07/14	12/08/14 04:15	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	12/07/14	12/08/14 04:15	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	12/07/14	12/08/14 04:15	1011
Diisopropyl ether	ND	ug/L	10		1	12/07/14	12/08/14 04:15	1011
Ethylbenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 04:15	1011
2-Hexanone	ND	ug/L	10		1	12/07/14	12/08/14 04:15	1011
Isopropylbenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 04:15	1011
Methyl Acetate	ND	ug/L	10		1	12/07/14	12/08/14 04:15	1011
Methylcyclohexane	ND	ug/L	10		1	12/07/14	12/08/14 04:15	1011
Methylene Chloride	ND	ug/L	1.0		1	12/07/14	12/08/14 04:15	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	12/07/14	12/08/14 04:15	1011
Methyl-t-butyl ether	**7.8**	ug/L	1.0		1	12/07/14	12/08/14 04:15	1011
Naphthalene	ND	ug/L	1.0		1	12/07/14	12/08/14 04:15	1011
Styrene	ND	ug/L	1.0		1	12/07/14	12/08/14 04:15	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 04:15	1011
Tetrachloroethene	ND	ug/L	1.0		1	12/07/14	12/08/14 04:15	1011
Toluene	ND	ug/L	1.0		1	12/07/14	12/08/14 04:15	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 04:15	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 04:15	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 04:15	1011
Trichloroethene	ND	ug/L	1.0		1	12/07/14	12/08/14 04:15	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 04:15	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	12/07/14	12/08/14 04:15	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 04:15	1011
Vinyl Chloride	ND	ug/L	1.0		1	12/07/14	12/08/14 04:15	1011
m,p-Xylenes	ND	ug/L	2.0		1	12/07/14	12/08/14 04:15	1011
o-Xylene	ND	ug/L	1.0		1	12/07/14	12/08/14 04:15	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14120408

AECOM, Beltsville, MD

December 11, 2014

Project Name: 7-11 Hampstead #32785
Project Location: Hampstead, MD
Project ID: 6014 4916

Sample ID: MW3 **Date/Time Sampled: 12/03/2014 15:50** **PSS Sample ID: 14120408-003**
Matrix: GROUND WATER **Date/Time Received: 12/04/2014 14:00**

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	12/04/14	12/05/14 01:23	1035

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14120408
AECOM, Beltsville, MD
December 11, 2014

Project Name: 7-11 Hampstead #32785
Project Location: Hampstead, MD
Project ID: 6014 4916

Sample ID: MW3 **Date/Time Sampled: 12/03/2014 15:50** **PSS Sample ID: 14120408-003**
Matrix: GROUND WATER **Date/Time Received: 12/04/2014 14:00**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	10		1	12/07/14	12/08/14 04:49	1011
tert-Amyl alcohol	ND	ug/L	20		1	12/07/14	12/08/14 04:49	1011
tert-Amyl methyl ether	ND	ug/L	10		1	12/07/14	12/08/14 04:49	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	12/07/14	12/08/14 04:49	1011
Benzene	ND	ug/L	1.0		1	12/07/14	12/08/14 04:49	1011
Bromochloromethane	ND	ug/L	1.0		1	12/07/14	12/08/14 04:49	1011
Bromodichloromethane	ND	ug/L	1.0		1	12/07/14	12/08/14 04:49	1011
Bromoform	ND	ug/L	5.0		1	12/07/14	12/08/14 04:49	1011
Bromomethane	ND	ug/L	1.0		1	12/07/14	12/08/14 04:49	1011
tert-Butyl alcohol	ND	ug/L	20		1	12/07/14	12/08/14 04:49	1011
2-Butanone (MEK)	ND	ug/L	10		1	12/07/14	12/08/14 04:49	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	12/07/14	12/08/14 04:49	1011
Carbon Disulfide	ND	ug/L	10		1	12/07/14	12/08/14 04:49	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	12/07/14	12/08/14 04:49	1011
Chlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 04:49	1011
Chloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 04:49	1011
Chloroform	ND	ug/L	1.0		1	12/07/14	12/08/14 04:49	1011
Chloromethane	ND	ug/L	1.0		1	12/07/14	12/08/14 04:49	1011
Cyclohexane	ND	ug/L	10		1	12/07/14	12/08/14 04:49	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	12/07/14	12/08/14 04:49	1011
Dibromochloromethane	ND	ug/L	1.0		1	12/07/14	12/08/14 04:49	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	12/07/14	12/08/14 04:49	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 04:49	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 04:49	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 04:49	1011
Dichlorodifluoromethane	ND	ug/L	1.0		1	12/07/14	12/08/14 04:49	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 04:49	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 04:49	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	12/07/14	12/08/14 04:49	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	12/07/14	12/08/14 04:49	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14120408
AECOM, Beltsville, MD
December 11, 2014

Project Name: 7-11 Hampstead #32785
Project Location: Hampstead, MD
Project ID: 6014 4916

Sample ID: MW3 **Date/Time Sampled: 12/03/2014 15:50** **PSS Sample ID: 14120408-003**
Matrix: GROUND WATER **Date/Time Received: 12/04/2014 14:00**

TCL Volatiles plus Oxygenates Analytical Method: SW-846 8260 B Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,2-Dichloropropane	ND	ug/L	1.0		1	12/07/14	12/08/14 04:49	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	12/07/14	12/08/14 04:49	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	12/07/14	12/08/14 04:49	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	12/07/14	12/08/14 04:49	1011
Diisopropyl ether	ND	ug/L	10		1	12/07/14	12/08/14 04:49	1011
Ethylbenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 04:49	1011
2-Hexanone	ND	ug/L	10		1	12/07/14	12/08/14 04:49	1011
Isopropylbenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 04:49	1011
Methyl Acetate	ND	ug/L	10		1	12/07/14	12/08/14 04:49	1011
Methylcyclohexane	ND	ug/L	10		1	12/07/14	12/08/14 04:49	1011
Methylene Chloride	ND	ug/L	1.0		1	12/07/14	12/08/14 04:49	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	12/07/14	12/08/14 04:49	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	12/07/14	12/08/14 04:49	1011
Naphthalene	ND	ug/L	1.0		1	12/07/14	12/08/14 04:49	1011
Styrene	ND	ug/L	1.0		1	12/07/14	12/08/14 04:49	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 04:49	1011
Tetrachloroethene	ND	ug/L	1.0		1	12/07/14	12/08/14 04:49	1011
Toluene	ND	ug/L	1.0		1	12/07/14	12/08/14 04:49	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 04:49	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 04:49	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 04:49	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 04:49	1011
Trichloroethene	ND	ug/L	1.0		1	12/07/14	12/08/14 04:49	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	12/07/14	12/08/14 04:49	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 04:49	1011
Vinyl Chloride	ND	ug/L	1.0		1	12/07/14	12/08/14 04:49	1011
m,p-Xylenes	ND	ug/L	2.0		1	12/07/14	12/08/14 04:49	1011
o-Xylene	ND	ug/L	1.0		1	12/07/14	12/08/14 04:49	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14120408

AECOM, Beltsville, MD

December 11, 2014

Project Name: 7-11 Hampstead #32785
Project Location: Hampstead, MD
Project ID: 6014 4916

Sample ID: MW4 **Date/Time Sampled: 12/03/2014 15:30** **PSS Sample ID: 14120408-004**
Matrix: GROUND WATER **Date/Time Received: 12/04/2014 14:00**

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	12/04/14	12/05/14 01:48	1035

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CERTIFICATE OF ANALYSIS

No: 14120408
AECOM, Beltsville, MD
December 11, 2014

Project Name: 7-11 Hampstead #32785
Project Location: Hampstead, MD
Project ID: 6014 4916

Sample ID: MW4 **Date/Time Sampled: 12/03/2014 15:30** **PSS Sample ID: 14120408-004**
Matrix: GROUND WATER **Date/Time Received: 12/04/2014 14:00**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	10		1	12/07/14	12/08/14 05:24	1011
tert-Amyl alcohol	ND	ug/L	20		1	12/07/14	12/08/14 05:24	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	12/07/14	12/08/14 05:24	1011
tert-Amyl methyl ether	ND	ug/L	10		1	12/07/14	12/08/14 05:24	1011
Benzene	ND	ug/L	1.0		1	12/07/14	12/08/14 05:24	1011
Bromochloromethane	ND	ug/L	1.0		1	12/07/14	12/08/14 05:24	1011
Bromodichloromethane	ND	ug/L	1.0		1	12/07/14	12/08/14 05:24	1011
Bromoform	ND	ug/L	5.0		1	12/07/14	12/08/14 05:24	1011
Bromomethane	ND	ug/L	1.0		1	12/07/14	12/08/14 05:24	1011
tert-Butyl alcohol	ND	ug/L	20		1	12/07/14	12/08/14 05:24	1011
2-Butanone (MEK)	ND	ug/L	10		1	12/07/14	12/08/14 05:24	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	12/07/14	12/08/14 05:24	1011
Carbon Disulfide	ND	ug/L	10		1	12/07/14	12/08/14 05:24	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	12/07/14	12/08/14 05:24	1011
Chlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 05:24	1011
Chloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 05:24	1011
Chloroform	ND	ug/L	1.0		1	12/07/14	12/08/14 05:24	1011
Chloromethane	ND	ug/L	1.0		1	12/07/14	12/08/14 05:24	1011
Cyclohexane	ND	ug/L	10		1	12/07/14	12/08/14 05:24	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	12/07/14	12/08/14 05:24	1011
Dibromochloromethane	ND	ug/L	1.0		1	12/07/14	12/08/14 05:24	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	12/07/14	12/08/14 05:24	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 05:24	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 05:24	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 05:24	1011
Dichlorodifluoromethane	ND	ug/L	1.0		1	12/07/14	12/08/14 05:24	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 05:24	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 05:24	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	12/07/14	12/08/14 05:24	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	12/07/14	12/08/14 05:24	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14120408
AECOM, Beltsville, MD
December 11, 2014

Project Name: 7-11 Hampstead #32785
Project Location: Hampstead, MD
Project ID: 6014 4916

Sample ID: MW4 **Date/Time Sampled: 12/03/2014 15:30** **PSS Sample ID: 14120408-004**
Matrix: GROUND WATER **Date/Time Received: 12/04/2014 14:00**

TCL Volatiles plus Oxygenates Analytical Method: SW-846 8260 B Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,2-Dichloropropane	ND	ug/L	1.0		1	12/07/14	12/08/14 05:24	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	12/07/14	12/08/14 05:24	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	12/07/14	12/08/14 05:24	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	12/07/14	12/08/14 05:24	1011
Diisopropyl ether	ND	ug/L	10		1	12/07/14	12/08/14 05:24	1011
Ethylbenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 05:24	1011
2-Hexanone	ND	ug/L	10		1	12/07/14	12/08/14 05:24	1011
Isopropylbenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 05:24	1011
Methyl Acetate	ND	ug/L	10		1	12/07/14	12/08/14 05:24	1011
Methylcyclohexane	ND	ug/L	10		1	12/07/14	12/08/14 05:24	1011
Methylene Chloride	ND	ug/L	1.0		1	12/07/14	12/08/14 05:24	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	12/07/14	12/08/14 05:24	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	12/07/14	12/08/14 05:24	1011
Naphthalene	ND	ug/L	1.0		1	12/07/14	12/08/14 05:24	1011
Styrene	ND	ug/L	1.0		1	12/07/14	12/08/14 05:24	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 05:24	1011
Tetrachloroethene	ND	ug/L	1.0		1	12/07/14	12/08/14 05:24	1011
Toluene	ND	ug/L	1.0		1	12/07/14	12/08/14 05:24	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 05:24	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 05:24	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 05:24	1011
Trichloroethene	ND	ug/L	1.0		1	12/07/14	12/08/14 05:24	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 05:24	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	12/07/14	12/08/14 05:24	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 05:24	1011
Vinyl Chloride	ND	ug/L	1.0		1	12/07/14	12/08/14 05:24	1011
m,p-Xylenes	ND	ug/L	2.0		1	12/07/14	12/08/14 05:24	1011
o-Xylene	ND	ug/L	1.0		1	12/07/14	12/08/14 05:24	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14120408

AECOM, Beltsville, MD

December 11, 2014

Project Name: 7-11 Hampstead #32785
Project Location: Hampstead, MD
Project ID: 6014 4916

Sample ID: MW5 **Date/Time Sampled: 12/03/2014 15:10** **PSS Sample ID: 14120408-005**
Matrix: GROUND WATER **Date/Time Received: 12/04/2014 14:00**

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	12/04/14	12/05/14 02:13	1035

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14120408
AECOM, Beltsville, MD
December 11, 2014

Project Name: 7-11 Hampstead #32785
Project Location: Hampstead, MD
Project ID: 6014 4916

Sample ID: MW5 **Date/Time Sampled: 12/03/2014 15:10** **PSS Sample ID: 14120408-005**
Matrix: GROUND WATER **Date/Time Received: 12/04/2014 14:00**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	10		1	12/07/14	12/08/14 05:59	1011
tert-Amyl alcohol	ND	ug/L	20		1	12/07/14	12/08/14 05:59	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	12/07/14	12/08/14 05:59	1011
tert-Amyl methyl ether	ND	ug/L	10		1	12/07/14	12/08/14 05:59	1011
Benzene	ND	ug/L	1.0		1	12/07/14	12/08/14 05:59	1011
Bromochloromethane	ND	ug/L	1.0		1	12/07/14	12/08/14 05:59	1011
Bromodichloromethane	ND	ug/L	1.0		1	12/07/14	12/08/14 05:59	1011
Bromoform	ND	ug/L	5.0		1	12/07/14	12/08/14 05:59	1011
Bromomethane	ND	ug/L	1.0		1	12/07/14	12/08/14 05:59	1011
tert-Butyl alcohol	ND	ug/L	20		1	12/07/14	12/08/14 05:59	1011
2-Butanone (MEK)	ND	ug/L	10		1	12/07/14	12/08/14 05:59	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	12/07/14	12/08/14 05:59	1011
Carbon Disulfide	ND	ug/L	10		1	12/07/14	12/08/14 05:59	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	12/07/14	12/08/14 05:59	1011
Chlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 05:59	1011
Chloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 05:59	1011
Chloroform	**1.2**	ug/L	1.0		1	12/07/14	12/08/14 05:59	1011
Chloromethane	ND	ug/L	1.0		1	12/07/14	12/08/14 05:59	1011
Cyclohexane	ND	ug/L	10		1	12/07/14	12/08/14 05:59	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	12/07/14	12/08/14 05:59	1011
Dibromochloromethane	ND	ug/L	1.0		1	12/07/14	12/08/14 05:59	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	12/07/14	12/08/14 05:59	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 05:59	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 05:59	1011
Dichlorodifluoromethane	ND	ug/L	1.0		1	12/07/14	12/08/14 05:59	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 05:59	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 05:59	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 05:59	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	12/07/14	12/08/14 05:59	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	12/07/14	12/08/14 05:59	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14120408
AECOM, Beltsville, MD
December 11, 2014

Project Name: 7-11 Hampstead #32785
Project Location: Hampstead, MD
Project ID: 6014 4916

Sample ID: MW5 **Date/Time Sampled: 12/03/2014 15:10** **PSS Sample ID: 14120408-005**
Matrix: GROUND WATER **Date/Time Received: 12/04/2014 14:00**

TCL Volatiles plus Oxygenates Analytical Method: SW-846 8260 B Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,2-Dichloropropane	ND	ug/L	1.0		1	12/07/14	12/08/14 05:59	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	12/07/14	12/08/14 05:59	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	12/07/14	12/08/14 05:59	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	12/07/14	12/08/14 05:59	1011
Diisopropyl ether	ND	ug/L	10		1	12/07/14	12/08/14 05:59	1011
Ethylbenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 05:59	1011
2-Hexanone	ND	ug/L	10		1	12/07/14	12/08/14 05:59	1011
Isopropylbenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 05:59	1011
Methyl Acetate	ND	ug/L	10		1	12/07/14	12/08/14 05:59	1011
Methylcyclohexane	ND	ug/L	10		1	12/07/14	12/08/14 05:59	1011
Methylene Chloride	ND	ug/L	1.0		1	12/07/14	12/08/14 05:59	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	12/07/14	12/08/14 05:59	1011
Methyl-t-butyl ether	**4.2**	ug/L	1.0		1	12/07/14	12/08/14 05:59	1011
Naphthalene	ND	ug/L	1.0		1	12/07/14	12/08/14 05:59	1011
Styrene	ND	ug/L	1.0		1	12/07/14	12/08/14 05:59	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 05:59	1011
Tetrachloroethene	ND	ug/L	1.0		1	12/07/14	12/08/14 05:59	1011
Toluene	ND	ug/L	1.0		1	12/07/14	12/08/14 05:59	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 05:59	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 05:59	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 05:59	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 05:59	1011
Trichloroethene	ND	ug/L	1.0		1	12/07/14	12/08/14 05:59	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	12/07/14	12/08/14 05:59	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 05:59	1011
Vinyl Chloride	ND	ug/L	1.0		1	12/07/14	12/08/14 05:59	1011
m,p-Xylenes	ND	ug/L	2.0		1	12/07/14	12/08/14 05:59	1011
o-Xylene	ND	ug/L	1.0		1	12/07/14	12/08/14 05:59	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14120408

AECOM, Beltsville, MD

December 11, 2014

Project Name: 7-11 Hampstead #32785
Project Location: Hampstead, MD
Project ID: 6014 4916

Sample ID: MW6 **Date/Time Sampled: 12/03/2014 16:30** **PSS Sample ID: 14120408-006**
Matrix: GROUND WATER **Date/Time Received: 12/04/2014 14:00**

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	**500**	ug/L	100		1	12/04/14	12/05/14 02:39	1035

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14120408
AECOM, Beltsville, MD
December 11, 2014

Project Name: 7-11 Hampstead #32785
Project Location: Hampstead, MD
Project ID: 6014 4916

Sample ID: MW6 **Date/Time Sampled: 12/03/2014 16:30** **PSS Sample ID: 14120408-006**
Matrix: GROUND WATER **Date/Time Received: 12/04/2014 14:00**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	**12**	ug/L	10		1	12/07/14	12/08/14 06:33	1011
tert-Amyl alcohol	ND	ug/L	20		1	12/07/14	12/08/14 06:33	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	12/07/14	12/08/14 06:33	1011
tert-Amyl methyl ether	ND	ug/L	10		1	12/07/14	12/08/14 06:33	1011
Benzene	ND	ug/L	1.0		1	12/07/14	12/08/14 06:33	1011
Bromochloromethane	ND	ug/L	1.0		1	12/07/14	12/08/14 06:33	1011
Bromodichloromethane	ND	ug/L	1.0		1	12/07/14	12/08/14 06:33	1011
Bromoform	ND	ug/L	5.0		1	12/07/14	12/08/14 06:33	1011
Bromomethane	ND	ug/L	1.0		1	12/07/14	12/08/14 06:33	1011
tert-Butyl alcohol	ND	ug/L	20		1	12/07/14	12/08/14 06:33	1011
2-Butanone (MEK)	ND	ug/L	10		1	12/07/14	12/08/14 06:33	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	12/07/14	12/08/14 06:33	1011
Carbon Disulfide	ND	ug/L	10		1	12/07/14	12/08/14 06:33	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	12/07/14	12/08/14 06:33	1011
Chlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 06:33	1011
Chloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 06:33	1011
Chloroform	ND	ug/L	1.0		1	12/07/14	12/08/14 06:33	1011
Chloromethane	ND	ug/L	1.0		1	12/07/14	12/08/14 06:33	1011
Cyclohexane	ND	ug/L	10		1	12/07/14	12/08/14 06:33	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	12/07/14	12/08/14 06:33	1011
Dibromochloromethane	ND	ug/L	1.0		1	12/07/14	12/08/14 06:33	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	12/07/14	12/08/14 06:33	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 06:33	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 06:33	1011
Dichlorodifluoromethane	ND	ug/L	1.0		1	12/07/14	12/08/14 06:33	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 06:33	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 06:33	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 06:33	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	12/07/14	12/08/14 06:33	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	12/07/14	12/08/14 06:33	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14120408
AECOM, Beltsville, MD
December 11, 2014

Project Name: 7-11 Hampstead #32785
Project Location: Hampstead, MD
Project ID: 6014 4916

Sample ID: MW6 **Date/Time Sampled: 12/03/2014 16:30** **PSS Sample ID: 14120408-006**
Matrix: GROUND WATER **Date/Time Received: 12/04/2014 14:00**

TCL Volatiles plus Oxygenates Analytical Method: SW-846 8260 B Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,2-Dichloropropane	ND	ug/L	1.0		1	12/07/14	12/08/14 06:33	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	12/07/14	12/08/14 06:33	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	12/07/14	12/08/14 06:33	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	12/07/14	12/08/14 06:33	1011
Diisopropyl ether	ND	ug/L	10		1	12/07/14	12/08/14 06:33	1011
Ethylbenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 06:33	1011
2-Hexanone	ND	ug/L	10		1	12/07/14	12/08/14 06:33	1011
Isopropylbenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 06:33	1011
Methyl Acetate	ND	ug/L	10		1	12/07/14	12/08/14 06:33	1011
Methylcyclohexane	ND	ug/L	10		1	12/07/14	12/08/14 06:33	1011
Methylene Chloride	ND	ug/L	1.0		1	12/07/14	12/08/14 06:33	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	12/07/14	12/08/14 06:33	1011
Methyl-t-butyl ether	**600**	ug/L	10		10	12/07/14	12/09/14 23:49	1011
Naphthalene	ND	ug/L	1.0		1	12/07/14	12/08/14 06:33	1011
Styrene	ND	ug/L	1.0		1	12/07/14	12/08/14 06:33	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 06:33	1011
Tetrachloroethene	ND	ug/L	1.0		1	12/07/14	12/08/14 06:33	1011
Toluene	ND	ug/L	1.0		1	12/07/14	12/08/14 06:33	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 06:33	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 06:33	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 06:33	1011
Trichloroethene	ND	ug/L	1.0		1	12/07/14	12/08/14 06:33	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 06:33	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	12/07/14	12/08/14 06:33	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 06:33	1011
Vinyl Chloride	ND	ug/L	1.0		1	12/07/14	12/08/14 06:33	1011
m,p-Xylenes	ND	ug/L	2.0		1	12/07/14	12/08/14 06:33	1011
o-Xylene	ND	ug/L	1.0		1	12/07/14	12/08/14 06:33	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14120408
AECOM, Beltsville, MD
December 11, 2014

Project Name: 7-11 Hampstead #32785
Project Location: Hampstead, MD
Project ID: 6014 4916

Sample ID: MW7 **Date/Time Sampled: 12/03/2014 14:30** **PSS Sample ID: 14120408-007**
Matrix: GROUND WATER **Date/Time Received: 12/04/2014 14:00**

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	12/04/14	12/05/14 03:04	1035

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14120408
AECOM, Beltsville, MD
December 11, 2014

Project Name: 7-11 Hampstead #32785
Project Location: Hampstead, MD
Project ID: 6014 4916

Sample ID: MW7 **Date/Time Sampled: 12/03/2014 14:30** **PSS Sample ID: 14120408-007**
Matrix: GROUND WATER **Date/Time Received: 12/04/2014 14:00**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	10		1	12/07/14	12/08/14 07:08	1011
tert-Amyl alcohol	ND	ug/L	20		1	12/07/14	12/08/14 07:08	1011
tert-Amyl methyl ether	ND	ug/L	10		1	12/07/14	12/08/14 07:08	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	12/07/14	12/08/14 07:08	1011
Benzene	ND	ug/L	1.0		1	12/07/14	12/08/14 07:08	1011
Bromochloromethane	ND	ug/L	1.0		1	12/07/14	12/08/14 07:08	1011
Bromodichloromethane	ND	ug/L	1.0		1	12/07/14	12/08/14 07:08	1011
Bromoform	ND	ug/L	5.0		1	12/07/14	12/08/14 07:08	1011
Bromomethane	ND	ug/L	1.0		1	12/07/14	12/08/14 07:08	1011
tert-Butyl alcohol	ND	ug/L	20		1	12/07/14	12/08/14 07:08	1011
2-Butanone (MEK)	ND	ug/L	10		1	12/07/14	12/08/14 07:08	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	12/07/14	12/08/14 07:08	1011
Carbon Disulfide	ND	ug/L	10		1	12/07/14	12/08/14 07:08	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	12/07/14	12/08/14 07:08	1011
Chlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 07:08	1011
Chloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 07:08	1011
Chloroform	ND	ug/L	1.0		1	12/07/14	12/08/14 07:08	1011
Chloromethane	ND	ug/L	1.0		1	12/07/14	12/08/14 07:08	1011
Cyclohexane	ND	ug/L	10		1	12/07/14	12/08/14 07:08	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	12/07/14	12/08/14 07:08	1011
Dibromochloromethane	ND	ug/L	1.0		1	12/07/14	12/08/14 07:08	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	12/07/14	12/08/14 07:08	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 07:08	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 07:08	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 07:08	1011
Dichlorodifluoromethane	ND	ug/L	1.0		1	12/07/14	12/08/14 07:08	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 07:08	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 07:08	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	12/07/14	12/08/14 07:08	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	12/07/14	12/08/14 07:08	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14120408
AECOM, Beltsville, MD
December 11, 2014

Project Name: 7-11 Hampstead #32785
Project Location: Hampstead, MD
Project ID: 6014 4916

Sample ID: MW7 **Date/Time Sampled: 12/03/2014 14:30** **PSS Sample ID: 14120408-007**
Matrix: GROUND WATER **Date/Time Received: 12/04/2014 14:00**

TCL Volatiles plus Oxygenates Analytical Method: SW-846 8260 B Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,2-Dichloropropane	ND	ug/L	1.0		1	12/07/14	12/08/14 07:08	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	12/07/14	12/08/14 07:08	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	12/07/14	12/08/14 07:08	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	12/07/14	12/08/14 07:08	1011
Diisopropyl ether	ND	ug/L	10		1	12/07/14	12/08/14 07:08	1011
Ethylbenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 07:08	1011
2-Hexanone	ND	ug/L	10		1	12/07/14	12/08/14 07:08	1011
Isopropylbenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 07:08	1011
Methyl Acetate	ND	ug/L	10		1	12/07/14	12/08/14 07:08	1011
Methylcyclohexane	ND	ug/L	10		1	12/07/14	12/08/14 07:08	1011
Methylene Chloride	ND	ug/L	1.0		1	12/07/14	12/08/14 07:08	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	12/07/14	12/08/14 07:08	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	12/07/14	12/08/14 07:08	1011
Naphthalene	ND	ug/L	1.0		1	12/07/14	12/08/14 07:08	1011
Styrene	ND	ug/L	1.0		1	12/07/14	12/08/14 07:08	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 07:08	1011
Tetrachloroethene	ND	ug/L	1.0		1	12/07/14	12/08/14 07:08	1011
Toluene	ND	ug/L	1.0		1	12/07/14	12/08/14 07:08	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 07:08	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 07:08	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 07:08	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 07:08	1011
Trichloroethene	ND	ug/L	1.0		1	12/07/14	12/08/14 07:08	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	12/07/14	12/08/14 07:08	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 07:08	1011
Vinyl Chloride	ND	ug/L	1.0		1	12/07/14	12/08/14 07:08	1011
m,p-Xylenes	ND	ug/L	2.0		1	12/07/14	12/08/14 07:08	1011
o-Xylene	ND	ug/L	1.0		1	12/07/14	12/08/14 07:08	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14120408

AECOM, Beltsville, MD

December 11, 2014

Project Name: 7-11 Hampstead #32785
Project Location: Hampstead, MD
Project ID: 6014 4916

Sample ID: MW8 **Date/Time Sampled: 12/03/2014 16:40** **PSS Sample ID: 14120408-008**
Matrix: GROUND WATER **Date/Time Received: 12/04/2014 14:00**

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	12/04/14	12/05/14 03:30	1035

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14120408
AECOM, Beltsville, MD
December 11, 2014

Project Name: 7-11 Hampstead #32785
Project Location: Hampstead, MD
Project ID: 6014 4916

Sample ID: MW8 **Date/Time Sampled: 12/03/2014 16:40** **PSS Sample ID: 14120408-008**
Matrix: GROUND WATER **Date/Time Received: 12/04/2014 14:00**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	10		1	12/07/14	12/08/14 07:43	1011
tert-Amyl alcohol	ND	ug/L	20		1	12/07/14	12/08/14 07:43	1011
tert-Amyl methyl ether	ND	ug/L	10		1	12/07/14	12/08/14 07:43	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	12/07/14	12/08/14 07:43	1011
Benzene	ND	ug/L	1.0		1	12/07/14	12/08/14 07:43	1011
Bromochloromethane	ND	ug/L	1.0		1	12/07/14	12/08/14 07:43	1011
Bromodichloromethane	ND	ug/L	1.0		1	12/07/14	12/08/14 07:43	1011
Bromoform	ND	ug/L	5.0		1	12/07/14	12/08/14 07:43	1011
Bromomethane	ND	ug/L	1.0		1	12/07/14	12/08/14 07:43	1011
tert-Butyl alcohol	ND	ug/L	20		1	12/07/14	12/08/14 07:43	1011
2-Butanone (MEK)	ND	ug/L	10		1	12/07/14	12/08/14 07:43	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	12/07/14	12/08/14 07:43	1011
Carbon Disulfide	ND	ug/L	10		1	12/07/14	12/08/14 07:43	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	12/07/14	12/08/14 07:43	1011
Chlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 07:43	1011
Chloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 07:43	1011
Chloroform	ND	ug/L	1.0		1	12/07/14	12/08/14 07:43	1011
Chloromethane	ND	ug/L	1.0		1	12/07/14	12/08/14 07:43	1011
Cyclohexane	ND	ug/L	10		1	12/07/14	12/08/14 07:43	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	12/07/14	12/08/14 07:43	1011
Dibromochloromethane	ND	ug/L	1.0		1	12/07/14	12/08/14 07:43	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	12/07/14	12/08/14 07:43	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 07:43	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 07:43	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 07:43	1011
Dichlorodifluoromethane	ND	ug/L	1.0		1	12/07/14	12/08/14 07:43	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 07:43	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 07:43	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	12/07/14	12/08/14 07:43	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	12/07/14	12/08/14 07:43	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14120408
AECOM, Beltsville, MD
December 11, 2014

Project Name: 7-11 Hampstead #32785
Project Location: Hampstead, MD
Project ID: 6014 4916

Sample ID: MW8 **Date/Time Sampled: 12/03/2014 16:40** **PSS Sample ID: 14120408-008**
Matrix: GROUND WATER **Date/Time Received: 12/04/2014 14:00**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,2-Dichloropropane	ND	ug/L	1.0		1	12/07/14	12/08/14 07:43	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	12/07/14	12/08/14 07:43	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	12/07/14	12/08/14 07:43	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	12/07/14	12/08/14 07:43	1011
Diisopropyl ether	ND	ug/L	10		1	12/07/14	12/08/14 07:43	1011
Ethylbenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 07:43	1011
2-Hexanone	ND	ug/L	10		1	12/07/14	12/08/14 07:43	1011
Isopropylbenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 07:43	1011
Methyl Acetate	ND	ug/L	10		1	12/07/14	12/08/14 07:43	1011
Methylcyclohexane	ND	ug/L	10		1	12/07/14	12/08/14 07:43	1011
Methylene Chloride	ND	ug/L	1.0		1	12/07/14	12/08/14 07:43	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	12/07/14	12/08/14 07:43	1011
Methyl-t-butyl ether	**16**	ug/L	1.0		1	12/07/14	12/08/14 07:43	1011
Naphthalene	ND	ug/L	1.0		1	12/07/14	12/08/14 07:43	1011
Styrene	ND	ug/L	1.0		1	12/07/14	12/08/14 07:43	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 07:43	1011
Tetrachloroethene	ND	ug/L	1.0		1	12/07/14	12/08/14 07:43	1011
Toluene	ND	ug/L	1.0		1	12/07/14	12/08/14 07:43	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 07:43	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 07:43	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 07:43	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 07:43	1011
Trichloroethene	ND	ug/L	1.0		1	12/07/14	12/08/14 07:43	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	12/07/14	12/08/14 07:43	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	12/07/14	12/08/14 07:43	1011
Vinyl Chloride	ND	ug/L	1.0		1	12/07/14	12/08/14 07:43	1011
m,p-Xylenes	ND	ug/L	2.0		1	12/07/14	12/08/14 07:43	1011
o-Xylene	ND	ug/L	1.0		1	12/07/14	12/08/14 07:43	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14120408

AECOM, Beltsville, MD

December 11, 2014

Project Name: 7-11 Hampstead #32785
Project Location: Hampstead, MD
Project ID: 6014 4916

Sample ID: MW9 **Date/Time Sampled: 12/03/2014 16:45** **PSS Sample ID: 14120408-009**
Matrix: GROUND WATER **Date/Time Received: 12/04/2014 14:00**

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	**260**	ug/L	100		1	12/04/14	12/05/14 03:55	1035

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14120408
AECOM, Beltsville, MD
December 11, 2014

Project Name: 7-11 Hampstead #32785
Project Location: Hampstead, MD
Project ID: 6014 4916

Sample ID: MW9 **Date/Time Sampled: 12/03/2014 16:45** **PSS Sample ID: 14120408-009**
Matrix: GROUND WATER **Date/Time Received: 12/04/2014 14:00**

TCL Volatiles plus Oxygenates Analytical Method: SW-846 8260 B Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	10		1	12/09/14	12/09/14 22:39	1011
tert-Amyl alcohol	ND	ug/L	20		1	12/09/14	12/09/14 22:39	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	12/09/14	12/09/14 22:39	1011
tert-Amyl methyl ether	ND	ug/L	10		1	12/09/14	12/09/14 22:39	1011
Benzene	ND	ug/L	1.0		1	12/09/14	12/09/14 22:39	1011
Bromochloromethane	ND	ug/L	1.0		1	12/09/14	12/09/14 22:39	1011
Bromodichloromethane	ND	ug/L	1.0		1	12/09/14	12/09/14 22:39	1011
Bromoform	ND	ug/L	5.0		1	12/09/14	12/09/14 22:39	1011
Bromomethane	ND	ug/L	1.0		1	12/09/14	12/09/14 22:39	1011
tert-Butyl alcohol	ND	ug/L	20		1	12/09/14	12/09/14 22:39	1011
2-Butanone (MEK)	ND	ug/L	10		1	12/09/14	12/09/14 22:39	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	12/09/14	12/09/14 22:39	1011
Carbon Disulfide	ND	ug/L	10		1	12/09/14	12/09/14 22:39	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	12/09/14	12/09/14 22:39	1011
Chlorobenzene	ND	ug/L	1.0		1	12/09/14	12/09/14 22:39	1011
Chloroethane	ND	ug/L	1.0		1	12/09/14	12/09/14 22:39	1011
Chloroform	ND	ug/L	1.0		1	12/09/14	12/09/14 22:39	1011
Chloromethane	ND	ug/L	1.0		1	12/09/14	12/09/14 22:39	1011
Cyclohexane	ND	ug/L	10		1	12/09/14	12/09/14 22:39	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	12/09/14	12/09/14 22:39	1011
Dibromochloromethane	ND	ug/L	1.0		1	12/09/14	12/09/14 22:39	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	12/09/14	12/09/14 22:39	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	12/09/14	12/09/14 22:39	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	12/09/14	12/09/14 22:39	1011
Dichlorodifluoromethane	ND	ug/L	1.0		1	12/09/14	12/09/14 22:39	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	12/09/14	12/09/14 22:39	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	12/09/14	12/09/14 22:39	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	12/09/14	12/09/14 22:39	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	12/09/14	12/09/14 22:39	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	12/09/14	12/09/14 22:39	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14120408
AECOM, Beltsville, MD
December 11, 2014

Project Name: 7-11 Hampstead #32785
Project Location: Hampstead, MD
Project ID: 6014 4916

Sample ID: MW9 **Date/Time Sampled: 12/03/2014 16:45** **PSS Sample ID: 14120408-009**
Matrix: GROUND WATER **Date/Time Received: 12/04/2014 14:00**

TCL Volatiles plus Oxygenates Analytical Method: SW-846 8260 B Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,2-Dichloropropane	ND	ug/L	1.0		1	12/09/14	12/09/14 22:39	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	12/09/14	12/09/14 22:39	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	12/09/14	12/09/14 22:39	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	12/09/14	12/09/14 22:39	1011
Diisopropyl ether	ND	ug/L	10		1	12/09/14	12/09/14 22:39	1011
Ethylbenzene	ND	ug/L	1.0		1	12/09/14	12/09/14 22:39	1011
2-Hexanone	ND	ug/L	10		1	12/09/14	12/09/14 22:39	1011
Isopropylbenzene	ND	ug/L	1.0		1	12/09/14	12/09/14 22:39	1011
Methyl Acetate	ND	ug/L	10		1	12/09/14	12/09/14 22:39	1011
Methylcyclohexane	ND	ug/L	10		1	12/09/14	12/09/14 22:39	1011
Methylene Chloride	ND	ug/L	1.0		1	12/09/14	12/09/14 22:39	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	12/09/14	12/09/14 22:39	1011
Methyl-t-butyl ether	**310**	ug/L	10		10	12/09/14	12/10/14 19:34	1011
Naphthalene	ND	ug/L	1.0		1	12/09/14	12/09/14 22:39	1011
Styrene	ND	ug/L	1.0		1	12/09/14	12/09/14 22:39	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	12/09/14	12/09/14 22:39	1011
Tetrachloroethene	ND	ug/L	1.0		1	12/09/14	12/09/14 22:39	1011
Toluene	ND	ug/L	1.0		1	12/09/14	12/09/14 22:39	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	12/09/14	12/09/14 22:39	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	12/09/14	12/09/14 22:39	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	12/09/14	12/09/14 22:39	1011
Trichloroethene	ND	ug/L	1.0		1	12/09/14	12/09/14 22:39	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	12/09/14	12/09/14 22:39	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	12/09/14	12/09/14 22:39	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	12/09/14	12/09/14 22:39	1011
Vinyl Chloride	ND	ug/L	1.0		1	12/09/14	12/09/14 22:39	1011
m,p-Xylenes	ND	ug/L	2.0		1	12/09/14	12/09/14 22:39	1011
o-Xylene	ND	ug/L	1.0		1	12/09/14	12/09/14 22:39	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14120408

AECOM, Beltsville, MD

December 11, 2014

Project Name: 7-11 Hampstead #32785
Project Location: Hampstead, MD
Project ID: 6014 4916

Sample ID: MW10 **Date/Time Sampled: 12/03/2014 16:50** **PSS Sample ID: 14120408-010**
Matrix: GROUND WATER **Date/Time Received: 12/04/2014 14:00**

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	12/04/14	12/05/14 04:20	1035

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14120408
AECOM, Beltsville, MD
December 11, 2014

Project Name: 7-11 Hampstead #32785
Project Location: Hampstead, MD
Project ID: 6014 4916

Sample ID: MW10 **Date/Time Sampled: 12/03/2014 16:50** **PSS Sample ID: 14120408-010**
Matrix: GROUND WATER **Date/Time Received: 12/04/2014 14:00**

TCL Volatiles plus Oxygenates Analytical Method: SW-846 8260 B Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	10		1	12/09/14	12/09/14 23:14	1011
tert-Amyl alcohol	ND	ug/L	20		1	12/09/14	12/09/14 23:14	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	12/09/14	12/09/14 23:14	1011
tert-Amyl methyl ether	ND	ug/L	10		1	12/09/14	12/09/14 23:14	1011
Benzene	ND	ug/L	1.0		1	12/09/14	12/09/14 23:14	1011
Bromochloromethane	ND	ug/L	1.0		1	12/09/14	12/09/14 23:14	1011
Bromodichloromethane	ND	ug/L	1.0		1	12/09/14	12/09/14 23:14	1011
Bromoform	ND	ug/L	5.0		1	12/09/14	12/09/14 23:14	1011
Bromomethane	ND	ug/L	1.0		1	12/09/14	12/09/14 23:14	1011
tert-Butyl alcohol	ND	ug/L	20		1	12/09/14	12/09/14 23:14	1011
2-Butanone (MEK)	ND	ug/L	10		1	12/09/14	12/09/14 23:14	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	12/09/14	12/09/14 23:14	1011
Carbon Disulfide	ND	ug/L	10		1	12/09/14	12/09/14 23:14	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	12/09/14	12/09/14 23:14	1011
Chlorobenzene	ND	ug/L	1.0		1	12/09/14	12/09/14 23:14	1011
Chloroethane	ND	ug/L	1.0		1	12/09/14	12/09/14 23:14	1011
Chloroform	ND	ug/L	1.0		1	12/09/14	12/09/14 23:14	1011
Chloromethane	ND	ug/L	1.0		1	12/09/14	12/09/14 23:14	1011
Cyclohexane	ND	ug/L	10		1	12/09/14	12/09/14 23:14	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	12/09/14	12/09/14 23:14	1011
Dibromochloromethane	ND	ug/L	1.0		1	12/09/14	12/09/14 23:14	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	12/09/14	12/09/14 23:14	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	12/09/14	12/09/14 23:14	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	12/09/14	12/09/14 23:14	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	12/09/14	12/09/14 23:14	1011
Dichlorodifluoromethane	ND	ug/L	1.0		1	12/09/14	12/09/14 23:14	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	12/09/14	12/09/14 23:14	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	12/09/14	12/09/14 23:14	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	12/09/14	12/09/14 23:14	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	12/09/14	12/09/14 23:14	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14120408
AECOM, Beltsville, MD
December 11, 2014

Project Name: 7-11 Hampstead #32785
Project Location: Hampstead, MD
Project ID: 6014 4916

Sample ID: MW10 **Date/Time Sampled: 12/03/2014 16:50** **PSS Sample ID: 14120408-010**
Matrix: GROUND WATER **Date/Time Received: 12/04/2014 14:00**

TCL Volatiles plus Oxygenates Analytical Method: SW-846 8260 B Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,2-Dichloropropane	ND	ug/L	1.0		1	12/09/14	12/09/14 23:14	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	12/09/14	12/09/14 23:14	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	12/09/14	12/09/14 23:14	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	12/09/14	12/09/14 23:14	1011
Diisopropyl ether	ND	ug/L	10		1	12/09/14	12/09/14 23:14	1011
Ethylbenzene	ND	ug/L	1.0		1	12/09/14	12/09/14 23:14	1011
2-Hexanone	ND	ug/L	10		1	12/09/14	12/09/14 23:14	1011
Isopropylbenzene	ND	ug/L	1.0		1	12/09/14	12/09/14 23:14	1011
Methyl Acetate	ND	ug/L	10		1	12/09/14	12/09/14 23:14	1011
Methylcyclohexane	ND	ug/L	10		1	12/09/14	12/09/14 23:14	1011
Methylene Chloride	ND	ug/L	1.0		1	12/09/14	12/09/14 23:14	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	12/09/14	12/09/14 23:14	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	12/09/14	12/09/14 23:14	1011
Naphthalene	ND	ug/L	1.0		1	12/09/14	12/09/14 23:14	1011
Styrene	ND	ug/L	1.0		1	12/09/14	12/09/14 23:14	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	12/09/14	12/09/14 23:14	1011
Tetrachloroethene	ND	ug/L	1.0		1	12/09/14	12/09/14 23:14	1011
Toluene	ND	ug/L	1.0		1	12/09/14	12/09/14 23:14	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	12/09/14	12/09/14 23:14	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	12/09/14	12/09/14 23:14	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	12/09/14	12/09/14 23:14	1011
Trichloroethene	ND	ug/L	1.0		1	12/09/14	12/09/14 23:14	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	12/09/14	12/09/14 23:14	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	12/09/14	12/09/14 23:14	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	12/09/14	12/09/14 23:14	1011
Vinyl Chloride	ND	ug/L	1.0		1	12/09/14	12/09/14 23:14	1011
m,p-Xylenes	ND	ug/L	2.0		1	12/09/14	12/09/14 23:14	1011
o-Xylene	ND	ug/L	1.0		1	12/09/14	12/09/14 23:14	1011

Case Narrative Summary

Client Name: AECOM

Project Name: 7-11 Hampstead #32785

Work Order Number(s): 14120408
Project ID: 6014 4916

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

The analyses of chlorine, pH, dissolved oxygen, temperature and sulfite for drinking water and non-potable samples tested for compliance have a maximum holding time of 15 minutes. As such, all laboratory analyses for these analytes exceed holding times.

Sample Receipt:

All sample receipt conditions were acceptable.

Analytical:

Total Petroleum Hydrocarbons-GRO

Batch: 118794
Surrogate exceedances identified; see surrogate summary form.

TCL Volatiles plus Oxygenates

Batch: 118820
CCV - Vinyl chloride had 126% recovery (QC limit: 80-120%). Sample results were ND for this compound. LCS/MS/MSD - within QC limits.

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.

Analytical Data Package Information Summary

Work Order(s): 14120408
Report Prepared For: AECOM, Beltsville, MD
Project Name: 7 Eleven - gen'l
Project Manager: John Canzeri

Method	Client Sample Id	Analysis Type	Lab Sample Id	Analyst	Mtx	Prep Batch	Analytical Batch	Sampled	Prepared	Analyzed
SW-846 8015C	MW1	Initial	14120408-001	1035	W	53295	118794	12/03/2014	12/04/2014 19:52	12/05/2014 00:32
	MW2	Initial	14120408-002	1035	W	53295	118794	12/03/2014	12/04/2014 19:52	12/05/2014 00:58
	MW3	Initial	14120408-003	1035	W	53295	118794	12/03/2014	12/04/2014 19:52	12/05/2014 01:23
	MW4	Initial	14120408-004	1035	W	53295	118794	12/03/2014	12/04/2014 19:52	12/05/2014 01:48
	MW5	Initial	14120408-005	1035	W	53295	118794	12/03/2014	12/04/2014 19:52	12/05/2014 02:13
	MW6	Initial	14120408-006	1035	W	53295	118794	12/03/2014	12/04/2014 19:52	12/05/2014 02:39
	MW7	Initial	14120408-007	1035	W	53295	118794	12/03/2014	12/04/2014 19:52	12/05/2014 03:04
	MW8	Initial	14120408-008	1035	W	53295	118794	12/03/2014	12/04/2014 19:52	12/05/2014 03:30
	MW9	Initial	14120408-009	1035	W	53295	118794	12/03/2014	12/04/2014 19:52	12/05/2014 03:55
	MW10	Initial	14120408-010	1035	W	53295	118794	12/03/2014	12/04/2014 19:52	12/05/2014 04:20
	53295-2-BKS	BKS	53295-2-BKS	1035	W	53295	118794	--------	12/04/2014 19:52	12/04/2014 22:00
	53295-2-BLK	BLK	53295-2-BLK	1035	W	53295	118794	--------	12/04/2014 19:52	12/04/2014 21:34
	A/S Inf S	MS	14120407-001 S	1035	W	53295	118794	12/03/2014	12/04/2014 19:52	12/05/2014 06:02
	A/S Inf SD	MSD	14120407-001 SD	1035	W	53295	118794	12/03/2014	12/04/2014 19:52	12/05/2014 06:27
SW-846 8260 B	MW1	Initial	14120408-001	1011	W	53310	118820	12/03/2014	12/07/2014 20:44	12/08/2014 03:41
	MW2	Initial	14120408-002	1011	W	53310	118820	12/03/2014	12/07/2014 20:44	12/08/2014 04:15
	MW3	Initial	14120408-003	1011	W	53310	118820	12/03/2014	12/07/2014 20:44	12/08/2014 04:49
	MW4	Initial	14120408-004	1011	W	53310	118820	12/03/2014	12/07/2014 20:44	12/08/2014 05:24
	MW5	Initial	14120408-005	1011	W	53310	118820	12/03/2014	12/07/2014 20:44	12/08/2014 05:59
	MW6	Initial	14120408-006	1011	W	53310	118820	12/03/2014	12/07/2014 20:44	12/08/2014 06:33
	MW7	Initial	14120408-007	1011	W	53310	118820	12/03/2014	12/07/2014 20:44	12/08/2014 07:08
	MW8	Initial	14120408-008	1011	W	53310	118820	12/03/2014	12/07/2014 20:44	12/08/2014 07:43
	53310-1-BKS	BKS	53310-1-BKS	1011	W	53310	118820	--------	12/07/2014 20:44	12/07/2014 22:28
	53310-1-BLK	BLK	53310-1-BLK	1011	W	53310	118820	--------	12/07/2014 20:44	12/07/2014 23:37
	A/S Eff S	MS	14120407-002 S	1011	W	53310	118820	12/03/2014	12/07/2014 20:44	12/08/2014 00:47
	A/S Eff SD	MSD	14120407-002 SD	1011	W	53310	118820	12/03/2014	12/07/2014 20:44	12/08/2014 01:22
	MW9	Initial	14120408-009	1011	W	53345	118893	12/03/2014	12/09/2014 17:55	12/09/2014 22:39
	MW10	Initial	14120408-010	1011	W	53345	118893	12/03/2014	12/09/2014 17:55	12/09/2014 23:14
	53345-1-BKS	BKS	53345-1-BKS	1011	W	53345	118893	--------	12/09/2014 17:55	12/09/2014 19:41

Analytical Data Package Information Summary

Work Order(s): 14120408
Report Prepared For: AECOM, Beltsville, MD
Project Name: 7 Eleven - gen'l
Project Manager: John Canzeri

Method	Client Sample Id	Analysis Type	Lab Sample Id	Analyst	Mtx	Prep Batch	Analytical Batch	Sampled	Prepared	Analyzed
SW-846 8260 B	53345-1-BLK	BLK	53345-1-BLK	1011	W	53345	118893	--------	12/09/2014 17:55	12/09/2014 20:52
	MW9 S	MS	14120408-009 S	1011	W	53345	118893	12/03/2014	12/09/2014 17:55	12/10/2014 00:25
	MW9 S	Reanalysis	14120408-009 S	1011	W	53345	118893	12/03/2014	12/09/2014 17:55	12/10/2014 00:25
	MW9 SD	MSD	14120408-009 SD	1011	W	53345	118893	12/03/2014	12/09/2014 17:55	12/10/2014 01:00
	MW9 SD	Reanalysis	14120408-009 SD	1011	W	53345	118893	12/03/2014	12/09/2014 17:55	12/10/2014 01:00
	MW6	Reanalysis	14120408-006	1011	W	53310	118893	12/03/2014	12/07/2014 20:44	12/09/2014 23:49
	53368-1-BKS	BKS	53368-1-BKS	1011	W	53368	118938	--------	12/10/2014 15:06	12/10/2014 16:36
	53368-1-BLK	BLK	53368-1-BLK	1011	W	53368	118938	--------	12/10/2014 15:06	12/10/2014 17:47
	GTA-1 GW S	MS	14120521-001 S	1011	W	53368	118938	12/04/2014	12/10/2014 15:06	12/11/2014 01:25
	GTA-1 GW SD	MSD	14120521-001 SD	1011	W	53368	118938	12/04/2014	12/10/2014 15:06	12/11/2014 02:00
	MW9	Reanalysis	14120408-009	1011	W	53345	118938	12/03/2014	12/09/2014 17:55	12/10/2014 19:34

PHASE SEPARATION SCIENCE, INC.

QC Summary 14120408

AECOM
7-11 Hampstead #32785

Analytical Method: SW-846 8015C Prep Method: SW5030B
Seq Number: 118794 Matrix: Ground Water Date Prep: 12/04/2014
PSS Sample ID: 14120408-001

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	85		65-111	%	12/05/14 00:32

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 118820 Matrix: Ground Water Date Prep: 12/07/2014
PSS Sample ID: 14120408-001

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	99		81-133	%	12/08/14 03:41
Dibromofluoromethane	107		84-110	%	12/08/14 03:41
Toluene-D8	104		94-109	%	12/08/14 03:41

Analytical Method: SW-846 8015C Prep Method: SW5030B
Seq Number: 118794 Matrix: Ground Water Date Prep: 12/04/2014
PSS Sample ID: 14120408-002

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	80		65-111	%	12/05/14 00:58

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 118820 Matrix: Ground Water Date Prep: 12/07/2014
PSS Sample ID: 14120408-002

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	100		81-133	%	12/08/14 04:15
Dibromofluoromethane	108		84-110	%	12/08/14 04:15
Toluene-D8	107		94-109	%	12/08/14 04:15

Analytical Method: SW-846 8015C Prep Method: SW5030B
Seq Number: 118794 Matrix: Ground Water Date Prep: 12/04/2014
PSS Sample ID: 14120408-003

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	85		65-111	%	12/05/14 01:23

PHASE SEPARATION SCIENCE, INC.

QC Summary 14120408

AECOM
7-11 Hampstead #32785

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 118820 Matrix: Ground Water Date Prep: 12/07/2014
PSS Sample ID: 14120408-003

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	99		81-133	%	12/08/14 04:49
Dibromofluoromethane	107		84-110	%	12/08/14 04:49
Toluene-D8	105		94-109	%	12/08/14 04:49

Analytical Method: SW-846 8015C Prep Method: SW5030B
Seq Number: 118794 Matrix: Ground Water Date Prep: 12/04/2014
PSS Sample ID: 14120408-004

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	86		65-111	%	12/05/14 01:48

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 118820 Matrix: Ground Water Date Prep: 12/07/2014
PSS Sample ID: 14120408-004

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	98		81-133	%	12/08/14 05:24
Dibromofluoromethane	107		84-110	%	12/08/14 05:24
Toluene-D8	106		94-109	%	12/08/14 05:24

Analytical Method: SW-846 8015C Prep Method: SW5030B
Seq Number: 118794 Matrix: Ground Water Date Prep: 12/04/2014
PSS Sample ID: 14120408-005

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	86		65-111	%	12/05/14 02:13

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 118820 Matrix: Ground Water Date Prep: 12/07/2014
PSS Sample ID: 14120408-005

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	101		81-133	%	12/08/14 05:59
Dibromofluoromethane	108		84-110	%	12/08/14 05:59
Toluene-D8	105		94-109	%	12/08/14 05:59

PHASE SEPARATION SCIENCE, INC.

QC Summary 14120408

AECOM
7-11 Hampstead #32785

Analytical Method: SW-846 8015C Prep Method: SW5030B
Seq Number: 118794 Matrix: Ground Water Date Prep: 12/04/2014
PSS Sample ID: 14120408-006

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	85		65-111	%	12/05/14 02:39

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 118820 Matrix: Ground Water Date Prep: 12/07/2014
PSS Sample ID: 14120408-006

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	99		81-133	%	12/08/14 06:33
Dibromofluoromethane	106		84-110	%	12/08/14 06:33
Toluene-D8	104		94-109	%	12/08/14 06:33

Analytical Method: SW-846 8015C Prep Method: SW5030B
Seq Number: 118794 Matrix: Ground Water Date Prep: 12/04/2014
PSS Sample ID: 14120408-007

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	86		65-111	%	12/05/14 03:04

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 118820 Matrix: Ground Water Date Prep: 12/07/2014
PSS Sample ID: 14120408-007

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	99		81-133	%	12/08/14 07:08
Dibromofluoromethane	109		84-110	%	12/08/14 07:08
Toluene-D8	107		94-109	%	12/08/14 07:08

Analytical Method: SW-846 8015C Prep Method: SW5030B
Seq Number: 118794 Matrix: Ground Water Date Prep: 12/04/2014
PSS Sample ID: 14120408-008

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	86		65-111	%	12/05/14 03:30

PHASE SEPARATION SCIENCE, INC.

QC Summary 14120408

AECOM
7-11 Hampstead #32785

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 118820 Matrix: Ground Water Date Prep: 12/07/2014
PSS Sample ID: 14120408-008

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	101		81-133	%	12/08/14 07:43
Dibromofluoromethane	107		84-110	%	12/08/14 07:43
Toluene-D8	104		94-109	%	12/08/14 07:43

Analytical Method: SW-846 8015C Prep Method: SW5030B
Seq Number: 118794 Matrix: Ground Water Date Prep: 12/04/2014
PSS Sample ID: 14120408-009

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	85		65-111	%	12/05/14 03:55

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 118893 Matrix: Ground Water Date Prep: 12/09/2014
PSS Sample ID: 14120408-009

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	104		81-133	%	12/09/14 22:39
Dibromofluoromethane	100		84-110	%	12/09/14 22:39
Toluene-D8	98		94-109	%	12/09/14 22:39

Analytical Method: SW-846 8015C Prep Method: SW5030B
Seq Number: 118794 Matrix: Ground Water Date Prep: 12/04/2014
PSS Sample ID: 14120408-010

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	81		65-111	%	12/05/14 04:20

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 118893 Matrix: Ground Water Date Prep: 12/09/2014
PSS Sample ID: 14120408-010

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	106		81-133	%	12/09/14 23:14
Dibromofluoromethane	100		84-110	%	12/09/14 23:14
Toluene-D8	97		94-109	%	12/09/14 23:14

F = RPD exceeded the laboratory control limits
X = Recovery of MS, MSD or both outside of QC Criteria
H= Recovery of BS,BSD or both exceeded the laboratory control limits

L = Recovery of BS,BSD or both below the laboratory control limits

PHASE SEPARATION SCIENCE, INC.

QC Summary 14120408

AECOM

7-11 Hampstead #32785

Analytical Method: SW-846 8015C Prep Method: SW5030B

Seq Number: 118794 Matrix: Water Date Prep: 12/04/14

MB Sample Id: 53295-2-BLK LCS Sample Id: 53295-2-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
TPH-GRO (Gasoline Range Organics	<100	5000	4298	86	61-138	ug/L	12/04/14 22:00	

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	86		119	*	65-111	%	12/04/14 22:00

PHASE SEPARATION SCIENCE, INC.

QC Summary 14120408

AECOM
7-11 Hampstead #32785

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 118820 Matrix: Water Date Prep: 12/07/14
MB Sample Id: 53310-1-BLK LCS Sample Id: 53310-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Acetone	<10.00	50.00	59.49	119	53-146	ug/L	12/07/14 22:28	
tert-Amyl alcohol	<20.00	50.00	28.34	57	27-139	ug/L	12/07/14 22:28	
tert-Amyl ethyl ether	<10.00	50.00	42.30	85	60-121	ug/L	12/07/14 22:28	
tert-Amyl methyl ether	<10.00	50.00	42.04	84	61-129	ug/L	12/07/14 22:28	
Benzene	<1.000	50.00	48.03	96	77-122	ug/L	12/07/14 22:28	
Bromochloromethane	<1.000	50.00	49.46	99	71-122	ug/L	12/07/14 22:28	
Bromodichloromethane	<1.000	50.00	48.22	96	76-122	ug/L	12/07/14 22:28	
Bromoform	<5.000	50.00	42.40	85	69-115	ug/L	12/07/14 22:28	
Bromomethane	<1.000	50.00	46.55	93	40-147	ug/L	12/07/14 22:28	
tert-Butyl alcohol	<20.00	50.00	46.34	93	15-150	ug/L	12/07/14 22:28	
2-Butanone (MEK)	<10.00	50.00	50.30	101	56-133	ug/L	12/07/14 22:28	
tert-Butyl ethyl ether	<10.00	50.00	42.52	85	62-137	ug/L	12/07/14 22:28	
Carbon Disulfide	<10.00	50.00	40.96	82	62-134	ug/L	12/07/14 22:28	
Carbon Tetrachloride	<1.000	50.00	50.59	101	74-127	ug/L	12/07/14 22:28	
Chlorobenzene	<1.000	50.00	43.98	88	76-116	ug/L	12/07/14 22:28	
Chloroethane	<1.000	50.00	51.24	102	59-132	ug/L	12/07/14 22:28	
Chloroform	<1.000	50.00	49.65	99	71-118	ug/L	12/07/14 22:28	
Chloromethane	<1.000	50.00	44.29	89	62-131	ug/L	12/07/14 22:28	
Cyclohexane	<10.00	50.00	41.70	83	46-150	ug/L	12/07/14 22:28	
1,2-Dibromo-3-Chloropropane	<10.00	50.00	35.28	71	59-135	ug/L	12/07/14 22:28	
Dibromochloromethane	<1.000	50.00	44.58	89	75-114	ug/L	12/07/14 22:28	
1,2-Dibromoethane (EDB)	<1.000	50.00	42.21	84	78-121	ug/L	12/07/14 22:28	
1,2-Dichlorobenzene	<1.000	50.00	43.41	87	80-122	ug/L	12/07/14 22:28	
1,3-Dichlorobenzene	<1.000	50.00	44.39	89	80-122	ug/L	12/07/14 22:28	
1,4-Dichlorobenzene	<1.000	50.00	43.40	87	77-118	ug/L	12/07/14 22:28	
Dichlorodifluoromethane	<1.000	50.00	36.31	73	54-139	ug/L	12/07/14 22:28	
1,1-Dichloroethane	<1.000	50.00	48.50	97	51-136	ug/L	12/07/14 22:28	
1,2-Dichloroethane	<1.000	50.00	48.66	97	64-130	ug/L	12/07/14 22:28	
1,1-Dichloroethene	<1.000	50.00	52.53	105	59-123	ug/L	12/07/14 22:28	
cis-1,2-Dichloroethene	<1.000	50.00	48.33	97	77-119	ug/L	12/07/14 22:28	
1,2-Dichloropropane	<1.000	50.00	46.19	92	75-125	ug/L	12/07/14 22:28	
cis-1,3-Dichloropropene	<1.000	50.00	43.47	87	74-123	ug/L	12/07/14 22:28	
trans-1,3-Dichloropropene	<1.000	50.00	43.19	86	73-116	ug/L	12/07/14 22:28	
trans-1,2-Dichloroethene	<1.000	50.00	48.15	96	58-134	ug/L	12/07/14 22:28	
Diisopropyl ether	<10.00	50.00	46.36	93	48-146	ug/L	12/07/14 22:28	
Ethylbenzene	<1.000	50.00	43.58	87	79-122	ug/L	12/07/14 22:28	
2-Hexanone	<10.00	50.00	45.30	91	56-134	ug/L	12/07/14 22:28	
Isopropylbenzene	<1.000	50.00	43.40	87	80-128	ug/L	12/07/14 22:28	
Methyl Acetate	<10.00	50.00	39.98	80	47-145	ug/L	12/07/14 22:28	
Methylcyclohexane	<10.00	50.00	42.55	85	61-155	ug/L	12/07/14 22:28	
Methylene Chloride	<1.000	50.00	46.63	93	61-126	ug/L	12/07/14 22:28	
4-Methyl-2-Pentanone	<5.000	50.00	42.32	85	45-145	ug/L	12/07/14 22:28	
Methyl-t-butyl ether	<1.000	50.00	41.34	83	30-168	ug/L	12/07/14 22:28	
Naphthalene	<1.000	50.00	32.97	66	46-154	ug/L	12/07/14 22:28	
Styrene	<1.000	50.00	45.40	91	73-118	ug/L	12/07/14 22:28	
1,1,2,2-Tetrachloroethane	<1.000	50.00	37.34	75	71-126	ug/L	12/07/14 22:28	
Tetrachloroethene	<1.000	50.00	46.59	93	78-113	ug/L	12/07/14 22:28	
Toluene	<1.000	50.00	46.92	94	77-123	ug/L	12/07/14 22:28	
1,2,3-Trichlorobenzene	<1.000	50.00	37.29	75	66-140	ug/L	12/07/14 22:28	
1,2,4-Trichlorobenzene	<1.000	50.00	41.04	82	72-143	ug/L	12/07/14 22:28	
1,1,1-Trichloroethane	<1.000	50.00	50.98	102	66-133	ug/L	12/07/14 22:28	

PHASE SEPARATION SCIENCE, INC.

QC Summary 14120408

AECOM

7-11 Hampstead #32785

Analytical Method: SW-846 8260 B Prep Method: SW5030B

Seq Number: 118820 Matrix: Water Date Prep: 12/07/14

MB Sample Id: 53310-1-BLK LCS Sample Id: 53310-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
1,1,2-Trichloroethane	<1.000	50.00	44.31	89	72-128	ug/L	12/07/14 22:28	
Trichloroethene	<1.000	50.00	48.25	97	72-127	ug/L	12/07/14 22:28	
Trichlorofluoromethane	<5.000	50.00	43.60	87	45-130	ug/L	12/07/14 22:28	
1,1,2-Trichloro-1,2,2-Trifluoroethane	<1.000	50.00	43.51	87	56-126	ug/L	12/07/14 22:28	
Vinyl Chloride	<1.000	50.00	57.11	114	64-132	ug/L	12/07/14 22:28	
m,p-Xylenes	<2.000	100	89.89	90	78-119	ug/L	12/07/14 22:28	
o-Xylene	<1.000	50.00	45.85	92	79-123	ug/L	12/07/14 22:28	

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	99		94		81-133	%	12/07/14 22:28
Dibromofluoromethane	106		106		84-110	%	12/07/14 22:28
Toluene-D8	103		104		94-109	%	12/07/14 22:28

PHASE SEPARATION SCIENCE, INC.

QC Summary 14120408

AECOM

7-11 Hampstead #32785

Analytical Method: SW-846 8260 B Prep Method: SW5030B

Seq Number: 118893 Matrix: Water Date Prep: 12/09/14

MB Sample Id: 53345-1-BLK LCS Sample Id: 53345-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Acetone	<10.00	50.00	46.73	93	53-146	ug/L	12/09/14 19:41	
tert-Amyl alcohol	<20.00	50.00	44.65	89	27-139	ug/L	12/09/14 19:41	
tert-Amyl ethyl ether	<10.00	50.00	48.34	97	60-121	ug/L	12/09/14 19:41	
tert-Amyl methyl ether	<10.00	50.00	48.56	97	61-129	ug/L	12/09/14 19:41	
Benzene	<1.000	50.00	48.48	97	77-122	ug/L	12/09/14 19:41	
Bromochloromethane	<1.000	50.00	48.18	96	71-122	ug/L	12/09/14 19:41	
Bromodichloromethane	<1.000	50.00	49.69	99	76-122	ug/L	12/09/14 19:41	
Bromoform	<5.000	50.00	46.00	92	69-115	ug/L	12/09/14 19:41	
Bromomethane	<1.000	50.00	50.08	100	40-147	ug/L	12/09/14 19:41	
tert-Butyl alcohol	<20.00	50.00	46.20	92	15-150	ug/L	12/09/14 19:41	
2-Butanone (MEK)	<10.00	50.00	49.48	99	56-133	ug/L	12/09/14 19:41	
tert-Butyl ethyl ether	<10.00	50.00	48.17	96	62-137	ug/L	12/09/14 19:41	
Carbon Disulfide	<10.00	50.00	48.43	97	62-134	ug/L	12/09/14 19:41	
Carbon Tetrachloride	<1.000	50.00	49.24	98	74-127	ug/L	12/09/14 19:41	
Chlorobenzene	<1.000	50.00	48.61	97	76-116	ug/L	12/09/14 19:41	
Chloroethane	<1.000	50.00	49.82	100	59-132	ug/L	12/09/14 19:41	
Chloroform	<1.000	50.00	46.38	93	71-118	ug/L	12/09/14 19:41	
Chloromethane	<1.000	50.00	49.00	98	62-131	ug/L	12/09/14 19:41	
Cyclohexane	<10.00	50.00	47.34	95	46-150	ug/L	12/09/14 19:41	
1,2-Dibromo-3-Chloropropane	<10.00	50.00	40.35	81	59-135	ug/L	12/09/14 19:41	
Dibromochloromethane	<1.000	50.00	49.54	99	75-114	ug/L	12/09/14 19:41	
1,2-Dibromoethane (EDB)	<1.000	50.00	47.51	95	78-121	ug/L	12/09/14 19:41	
1,2-Dichlorobenzene	<1.000	50.00	48.81	98	80-122	ug/L	12/09/14 19:41	
1,3-Dichlorobenzene	<1.000	50.00	48.47	97	80-122	ug/L	12/09/14 19:41	
1,4-Dichlorobenzene	<1.000	50.00	47.79	96	77-118	ug/L	12/09/14 19:41	
Dichlorodifluoromethane	<1.000	50.00	46.20	92	54-139	ug/L	12/09/14 19:41	
1,1-Dichloroethane	<1.000	50.00	46.49	93	51-136	ug/L	12/09/14 19:41	
1,2-Dichloroethane	<1.000	50.00	47.33	95	64-130	ug/L	12/09/14 19:41	
1,1-Dichloroethene	<1.000	50.00	47.34	95	59-123	ug/L	12/09/14 19:41	
cis-1,2-Dichloroethene	<1.000	50.00	48.17	96	77-119	ug/L	12/09/14 19:41	
1,2-Dichloropropane	<1.000	50.00	47.84	96	75-125	ug/L	12/09/14 19:41	
cis-1,3-Dichloropropene	<1.000	50.00	48.73	97	74-123	ug/L	12/09/14 19:41	
trans-1,3-Dichloropropene	<1.000	50.00	46.64	93	73-116	ug/L	12/09/14 19:41	
trans-1,2-Dichloroethene	<1.000	50.00	47.53	95	58-134	ug/L	12/09/14 19:41	
Diisopropyl ether	<10.00	50.00	48.92	98	48-146	ug/L	12/09/14 19:41	
Ethylbenzene	<1.000	50.00	49.42	99	79-122	ug/L	12/09/14 19:41	
2-Hexanone	<10.00	50.00	50.42	101	56-134	ug/L	12/09/14 19:41	
Isopropylbenzene	<1.000	50.00	49.21	98	80-128	ug/L	12/09/14 19:41	
Methyl Acetate	<10.00	50.00	45.48	91	47-145	ug/L	12/09/14 19:41	
Methylcyclohexane	<10.00	50.00	46.47	93	61-155	ug/L	12/09/14 19:41	
Methylene Chloride	<1.000	50.00	46.96	94	61-126	ug/L	12/09/14 19:41	
4-Methyl-2-Pentanone	<5.000	50.00	54.51	109	45-145	ug/L	12/09/14 19:41	
Methyl-t-butyl ether	<1.000	50.00	48.18	96	30-168	ug/L	12/09/14 19:41	
Naphthalene	<1.000	50.00	45.91	92	46-154	ug/L	12/09/14 19:41	
Styrene	<1.000	50.00	51.50	103	73-118	ug/L	12/09/14 19:41	
1,1,2,2-Tetrachloroethane	<1.000	50.00	46.76	94	71-126	ug/L	12/09/14 19:41	
Tetrachloroethene	<1.000	50.00	48.80	98	78-113	ug/L	12/09/14 19:41	
Toluene	<1.000	50.00	49.28	99	77-123	ug/L	12/09/14 19:41	
1,2,3-Trichlorobenzene	<1.000	50.00	48.00	96	66-140	ug/L	12/09/14 19:41	
1,2,4-Trichlorobenzene	<1.000	50.00	48.38	97	72-143	ug/L	12/09/14 19:41	
1,1,1-Trichloroethane	<1.000	50.00	48.46	97	66-133	ug/L	12/09/14 19:41	

PHASE SEPARATION SCIENCE, INC.

QC Summary 14120408

AECOM

7-11 Hampstead #32785

Analytical Method: SW-846 8260 B Prep Method: SW5030B

Seq Number: 118893 Matrix: Water Date Prep: 12/09/14

MB Sample Id: 53345-1-BLK LCS Sample Id: 53345-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
1,1,2-Trichloroethane	<1.000	50.00	46.32	93	72-128	ug/L	12/09/14 19:41	
Trichloroethene	<1.000	50.00	47.56	95	72-127	ug/L	12/09/14 19:41	
Trichlorofluoromethane	<5.000	50.00	49.57	99	45-130	ug/L	12/09/14 19:41	
1,1,2-Trichloro-1,2,2-Trifluoroethane	<1.000	50.00	47.22	94	56-126	ug/L	12/09/14 19:41	
Vinyl Chloride	<1.000	50.00	50.61	101	64-132	ug/L	12/09/14 19:41	
m,p-Xylenes	<2.000	100	98.65	99	78-119	ug/L	12/09/14 19:41	
o-Xylene	<1.000	50.00	49.39	99	79-123	ug/L	12/09/14 19:41	

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	103		101		81-133	%	12/09/14 19:41
Dibromofluoromethane	101		101		84-110	%	12/09/14 19:41
Toluene-D8	101		102		94-109	%	12/09/14 19:41

Analytical Method: SW-846 8260 B Prep Method: SW5030B

Seq Number: 118938 Matrix: Water Date Prep: 12/10/14

MB Sample Id: 53368-1-BLK LCS Sample Id: 53368-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Methyl-t-butyl ether	<1.000	50.00	45.58	91	30-168	ug/L	12/10/14 16:36	

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	106		99		81-133	%	12/10/14 16:36
Dibromofluoromethane	101		100		84-110	%	12/10/14 16:36
Toluene-D8	101		99		94-109	%	12/10/14 16:36

PHASE SEPARATION SCIENCE, INC.

QC Summary 14120408

AECOM

7-11 Hampstead #32785

Analytical Method: SW-846 8260 B Prep Method: SW5030B

Seq Number: 118893 Matrix: Ground Water Date Prep: 12/09/14

Parent Sample Id: 14120408-009 MS Sample Id: 14120408-009 S MSD Sample Id: 14120408-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Acetone	<10.00	50.00	39.82	80	47.85	96	41-161	18	25	ug/L	12/10/14 00:25	
tert-Amyl alcohol	<20.00	50.00	26.22	52	36.52	73	5-149	33	25	ug/L	12/10/14 00:25	F
tert-Amyl ethyl ether	<10.00	50.00	42.62	85	40.97	82	48-129	4	25	ug/L	12/10/14 00:25	
tert-Amyl methyl ether	<10.00	50.00	46.06	92	44.59	89	50-139	3	25	ug/L	12/10/14 00:25	
Benzene	<1.000	50.00	47.40	95	44.06	88	75-132	7	25	ug/L	12/10/14 00:25	
Bromochloromethane	<1.000	50.00	45.92	92	43.61	87	67-130	5	25	ug/L	12/10/14 00:25	
Bromodichloromethane	<1.000	50.00	47.19	94	43.97	88	69-134	7	25	ug/L	12/10/14 00:25	
Bromoform	<5.000	50.00	42.88	86	39.75	80	65-115	8	25	ug/L	12/10/14 00:25	
Bromomethane	<1.000	50.00	45.73	91	43.02	86	29-154	6	25	ug/L	12/10/14 00:25	
tert-Butyl alcohol	<20.00	50.00	48.45	97	46.20	92	1-183	5	25	ug/L	12/10/14 00:25	
2-Butanone (MEK)	<10.00	50.00	45.17	90	44.58	89	47-140	1	25	ug/L	12/10/14 00:25	
tert-Butyl ethyl ether	<10.00	50.00	42.99	86	41.62	83	55-141	3	25	ug/L	12/10/14 00:25	
Carbon Disulfide	<10.00	50.00	48.64	97	46.20	92	59-146	5	25	ug/L	12/10/14 00:25	
Carbon Tetrachloride	<1.000	50.00	48.98	98	46.37	93	74-136	5	25	ug/L	12/10/14 00:25	
Chlorobenzene	<1.000	50.00	46.52	93	43.21	86	78-115	7	25	ug/L	12/10/14 00:25	
Chloroethane	<1.000	50.00	46.18	92	43.27	87	40-150	7	25	ug/L	12/10/14 00:25	
Chloroform	<1.000	50.00	45.31	91	42.75	86	67-130	6	25	ug/L	12/10/14 00:25	
Chloromethane	<1.000	50.00	46.84	94	43.96	88	59-144	6	25	ug/L	12/10/14 00:25	
Cyclohexane	<10.00	50.00	45.93	92	46.56	93	34-161	1	25	ug/L	12/10/14 00:25	
1,2-Dibromo-3-Chloropropane	<10.00	50.00	36.70	73	33.63	67	45-125	9	25	ug/L	12/10/14 00:25	
Dibromochloromethane	<1.000	50.00	46.28	93	43.38	87	73-114	6	25	ug/L	12/10/14 00:25	
1,2-Dibromoethane (EDB)	<1.000	50.00	44.05	88	42.03	84	72-126	5	25	ug/L	12/10/14 00:25	
1,2-Dichlorobenzene	<1.000	50.00	45.96	92	42.99	86	73-117	7	25	ug/L	12/10/14 00:25	
1,3-Dichlorobenzene	<1.000	50.00	45.85	92	42.81	86	73-117	7	25	ug/L	12/10/14 00:25	
1,4-Dichlorobenzene	<1.000	50.00	45.76	92	41.96	84	72-111	9	25	ug/L	12/10/14 00:25	
Dichlorodifluoromethane	<1.000	50.00	42.87	86	45.55	91	47-159	6	25	ug/L	12/10/14 00:25	
1,1-Dichloroethane	<1.000	50.00	45.98	92	43.36	87	44-152	6	25	ug/L	12/10/14 00:25	
1,2-Dichloroethane	<1.000	50.00	44.16	88	42.04	84	60-142	5	25	ug/L	12/10/14 00:25	
1,1-Dichloroethene	<1.000	50.00	44.80	90	42.74	85	50-136	5	25	ug/L	12/10/14 00:25	
cis-1,2-Dichloroethene	<1.000	50.00	45.69	91	43.53	87	76-127	5	25	ug/L	12/10/14 00:25	
1,2-Dichloropropane	<1.000	50.00	45.69	91	43.00	86	70-139	6	25	ug/L	12/10/14 00:25	
cis-1,3-Dichloropropene	<1.000	50.00	43.50	87	41.12	82	64-127	6	25	ug/L	12/10/14 00:25	
trans-1,3-Dichloropropene	<1.000	50.00	41.08	82	39.72	79	62-123	3	25	ug/L	12/10/14 00:25	
trans-1,2-Dichloroethene	<1.000	50.00	45.48	91	43.75	88	54-144	4	25	ug/L	12/10/14 00:25	
Diisopropyl ether	<10.00	50.00	49.34	99	47.24	94	49-150	4	25	ug/L	12/10/14 00:25	
Ethylbenzene	<1.000	50.00	48.66	97	44.36	89	74-129	9	25	ug/L	12/10/14 00:25	
2-Hexanone	<10.00	50.00	43.39	87	41.67	83	50-130	4	25	ug/L	12/10/14 00:25	
Isopropylbenzene	<1.000	50.00	47.48	95	44.58	89	72-130	6	25	ug/L	12/10/14 00:25	
Methyl Acetate	<10.00	50.00	37.59	75	34.81	70	37-143	8	25	ug/L	12/10/14 00:25	
Methylcyclohexane	<10.00	50.00	44.62	89	46.82	94	55-148	5	25	ug/L	12/10/14 00:25	
Methylene Chloride	<1.000	50.00	43.68	87	41.90	84	56-137	4	25	ug/L	12/10/14 00:25	
4-Methyl-2-Pentanone	<5.000	50.00	45.55	91	46.12	92	44-133	1	25	ug/L	12/10/14 00:25	
Methyl-t-butyl ether	366.8	50.00	403.7	74	394.2	55	22-182	2	25	ug/L	12/10/14 00:25	
Naphthalene	<1.000	50.00	37.78	76	36.93	74	7-137	2	25	ug/L	12/10/14 00:25	
Styrene	<1.000	50.00	50.48	101	45.47	91	67-121	10	25	ug/L	12/10/14 00:25	
1,1,2,2-Tetrachloroethane	<1.000	50.00	42.98	86	42.10	84	68-127	2	25	ug/L	12/10/14 00:25	
Tetrachloroethene	<1.000	50.00	46.22	92	43.00	86	69-126	7	25	ug/L	12/10/14 00:25	
Toluene	<1.000	50.00	47.52	95	44.24	88	74-132	7	25	ug/L	12/10/14 00:25	
1,2,3-Trichlorobenzene	<1.000	50.00	40.58	81	38.91	78	9-139	4	25	ug/L	12/10/14 00:25	
1,2,4-Trichlorobenzene	<1.000	50.00	41.53	83	38.59	77	31-135	7	25	ug/L	12/10/14 00:25	
1,1,1-Trichloroethane	<1.000	50.00	46.64	93	43.49	87	70-138	7	25	ug/L	12/10/14 00:25	

PHASE SEPARATION SCIENCE, INC.

QC Summary 14120408

AECOM

7-11 Hampstead #32785

Analytical Method: SW-846 8260 B Prep Method: SW5030B

Seq Number: 118893 Matrix: Ground Water Date Prep: 12/09/14

Parent Sample Id: 14120408-009 MS Sample Id: 14120408-009 S MSD Sample Id: 14120408-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,2-Trichloroethane	<1.000	50.00	41.86	84	41.21	82	65-143	2	25	ug/L	12/10/14 00:25	
Trichloroethene	<1.000	50.00	45.99	92	42.57	85	67-139	8	25	ug/L	12/10/14 00:25	
Trichlorofluoromethane	<5.000	50.00	43.95	88	45.81	92	37-147	4	25	ug/L	12/10/14 00:25	
1,1,2-Trichloro-1,2,2-Trifluoroethane	<1.000	50.00	43.25	87	45.46	91	47-139	5	25	ug/L	12/10/14 00:25	
Vinyl Chloride	<1.000	50.00	51.50	103	48.03	96	60-146	7	25	ug/L	12/10/14 00:25	
m,p-Xylenes	<2.000	100	96.27	96	87.65	88	78-119	9	25	ug/L	12/10/14 00:25	
o-Xylene	<1.000	50.00	48.50	97	43.43	87	80-123	11	25	ug/L	12/10/14 00:25	

Surrogate	MS Result	MS Flag	MSD Result	MSD Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	99		100		81-133	%	12/10/14 00:25
Dibromofluoromethane	102		101		84-110	%	12/10/14 00:25
Toluene-D8	101		100		94-109	%	12/10/14 00:25

F = RPD exceeded the laboratory control limits
X = Recovery of MS, MSD or both outside of QC Criteria
H= Recovery of BS,BSD or both exceeded the laboratory control limits
L = Recovery of BS,BSD or both below the laboratory control limits

SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

PHASE SEPARATION SCIENCE, INC.

www.phaseonline.com
email: info@phaseonline.com

(1)

*CLIENT: AECOM *OFFICE LOC. Beltsville, MD

*PROJECT MGR: John Ganzeri *PHONE NO.: (240) 994 8554

EMAIL: FAX NO.: ( )

*PROJECT NAME: 7-11 Hampstead #32785 PROJECT NO.: 60144916

SITE LOCATION: Hampstead, MD P.O. NO.:

SAMPLER(S): NB DW CERT NO.:

PSS Work Order #: 14120408 PAGE 1 OF 1

Matrix Codes: **SW**=Surface Wtr **DW**=Drinking Wtr **GW**=Ground Wtr **WW**=Waste Wtr **O**=Oil **S**=Soil **L**=Liquid **SOL**=Solid **A**=Air **WI**=Wipe

(2)

LAB NO.	*SAMPLE IDENTIFICATION	*DATE (SAMPLED)	*TIME (SAMPLED)	MATRIX (See Codes)	No. CONTAINERS	SAMPLE TYPE C = COMP G = GRAB	Preservatives Used: HCL	HCL										REMARKS
							Analysis/ Method Required (3) *	Fullvols TOXBTEX	TPH-GRO									
	MW1	12/3/14	14:45	GW	6	G	✓	✓										
	MW2		16:10		6		✓	✓										
	MW3		15:50		6		✓	✓										
	MW4		15:30		6		✓	✓										
	MW5		15:10		6		✓	✓										
	MW6		16:30		6		✓	✓										
	MW7		14:30		6		✓	✓										
	MW8		16:40		6		✓	✓										
	MW9		16:45		6		✓	✓										
	MW10		16:50		6		✓	✓										

(5)

Relinquished By: (1)	Date	Time	Received By:
[signature]	12/4/14	2pm	[signature]
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

(4)

*Requested TAT (One TAT per COC): ☑ 5-Day ☐ 3-Day ☐ 2-Day ☐ Next Day ☐ Emergency ☐ Other

Data Deliverables Required: COA ☑ QC-SUMM ☐ CLP LIKE ☐ OTHER _____

Special Instructions:

DW COMPLIANCE? YES ☐

EDD FORMAT TYPE: AECOM

STATE RESULTS REPORTED TO: MD ☑ DE ☐ PA ☐ VA ☐ WV ☐ OTHER _____

# of Coolers: 1

Custody Seal: N/A

Ice Present: yes Temp: 1°C

Shipping Carrier: client

6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723

The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary. * = REQUIRED

Phase Separation Science, Inc

Sample Receipt Checklist

Work Order #	14120408	**Received By**	Amy Friedlander
Client Name	AECOM	**Date Received**	12/04/2014 02:00:00 PM
Project Name	7-11 Hampstead #32785	**Delivered By**	Client
Project Number	6014 4916	**Tracking No**	Not Applicable
Disposal Date	01/08/2015	**Logged In By**	Amy Friedlander

Shipping Container(s)

No. of Coolers 1

		Ice	Present
Custody Seal(s) Intact?	N/A	Temp (deg C)	1
Seal(s) Signed / Dated?	N/A	Temp Blank Present	No

Documentation

		Sampler Name	Nick Barrett
COC agrees with sample labels?	Yes	MD DW Cert. No.	N/A
Chain of Custody	Yes		

Sample Container

		Custody Seal(s) Intact?	Not Applicable
Appropriate for Specified Analysis?	Yes	Seal(s) Signed / Dated	Not Applicable
Intact?	Yes		
Labeled and Labels Legible?	Yes		

Total No. of Samples Received 10

Total No. of Containers Received 60

Preservation

Metals	(pH<2)	N/A
Cyanides	(pH>12)	N/A
Sulfide	(pH>9)	N/A
TOC, COD, Phenols	(pH<2)	N/A
TOX, TKN, NH3, Total Phos	(pH<2)	N/A
VOC, BTEX (VOA Vials Rcvd Preserved)	(pH<2)	Yes
Do VOA vials have zero headspace?		Yes
624 VOC (Rcvd at least one unpreserved VOA vial)		N/A

Comments: (Any "No" response must be detailed in the comments section below.)

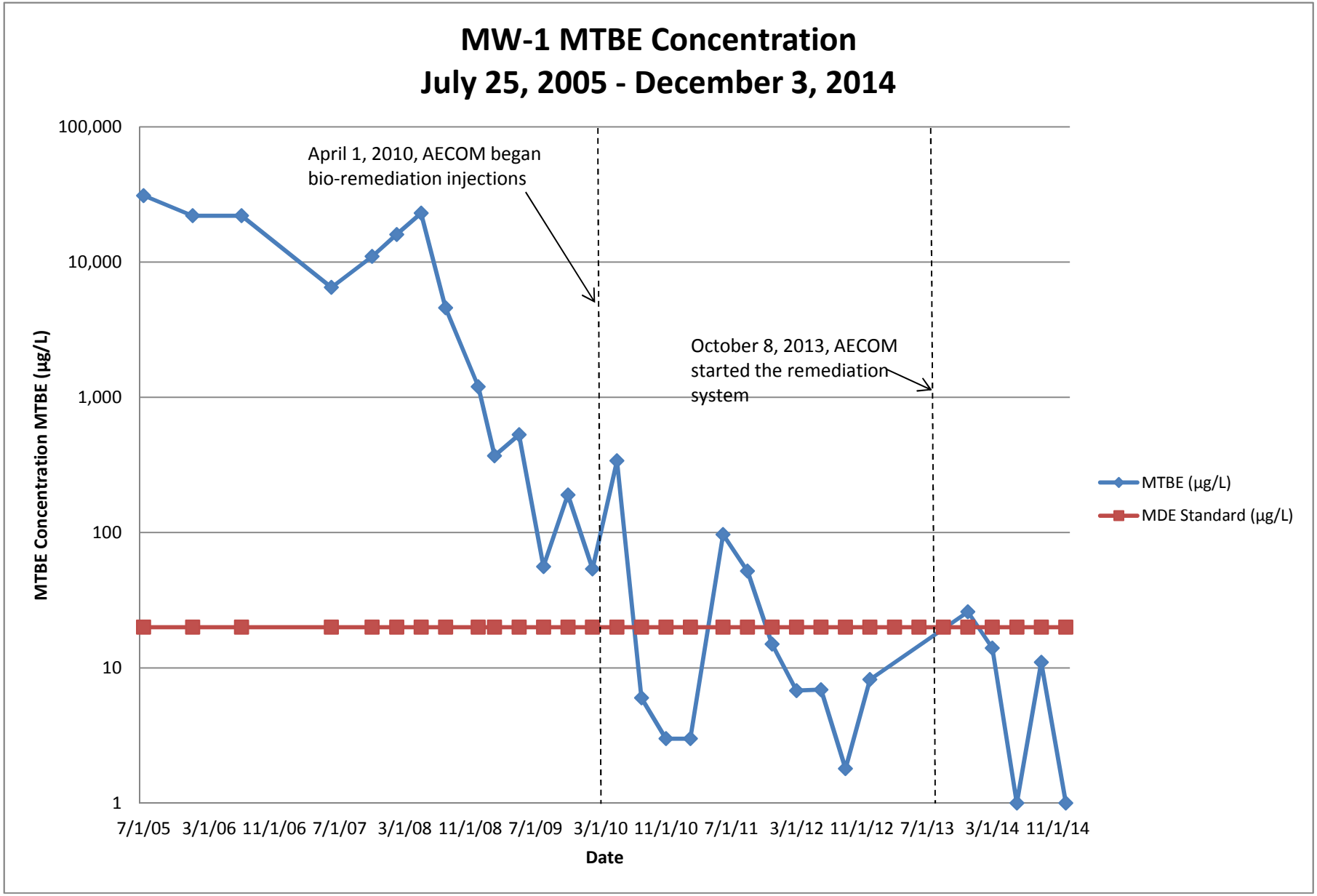
For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling. Samples which require thermal preservation shall be considered acceptable when received at a temperature above freezing to 6°C. Samples that are hand delivered on the day that they are collected may not meet these criteria but shall be considered acceptable if there is evidence that the chilling process has begun such as arrival on ice.

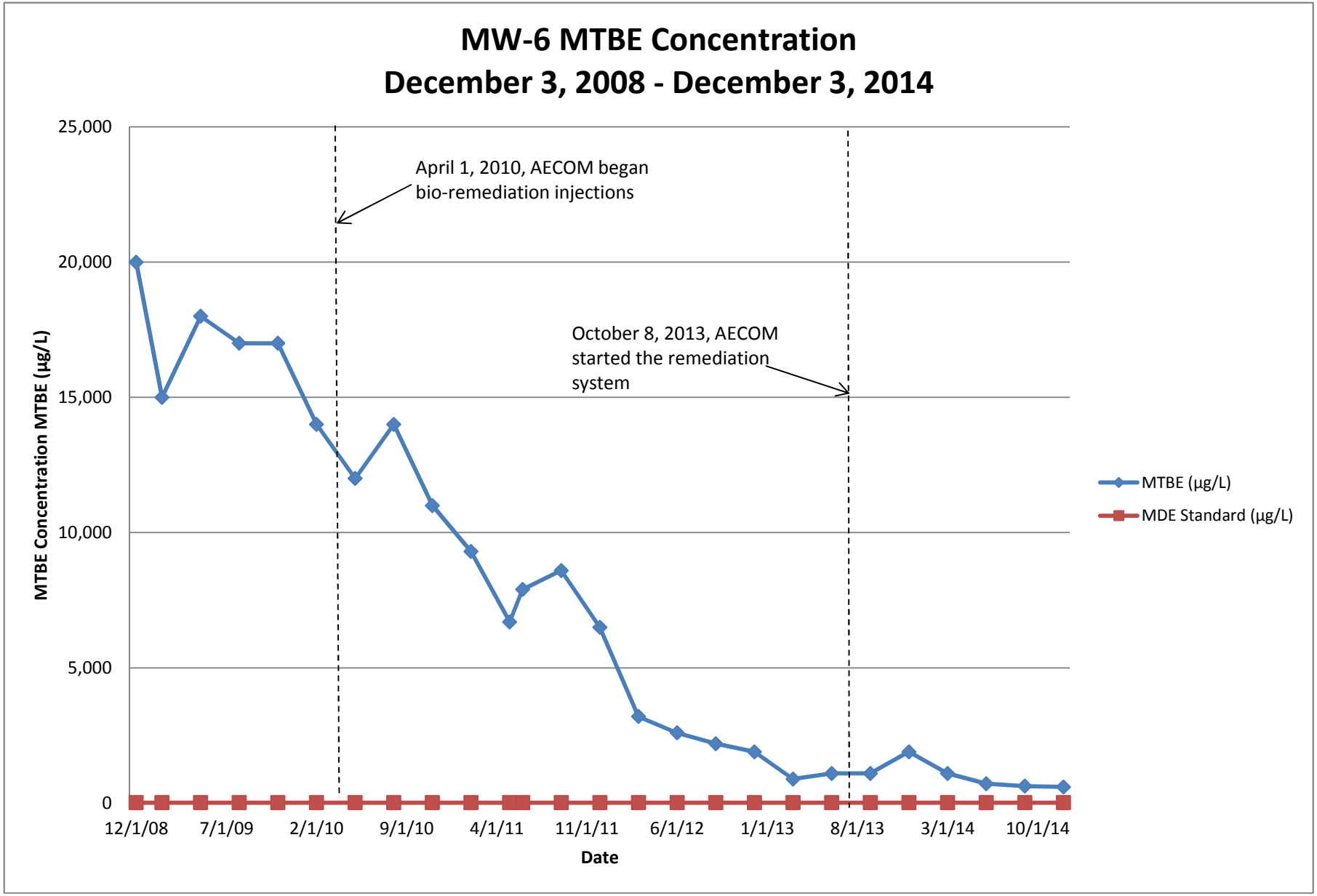
Samples Inspected/Checklist Completed By: Amy Friedlander Date: 12/04/2014

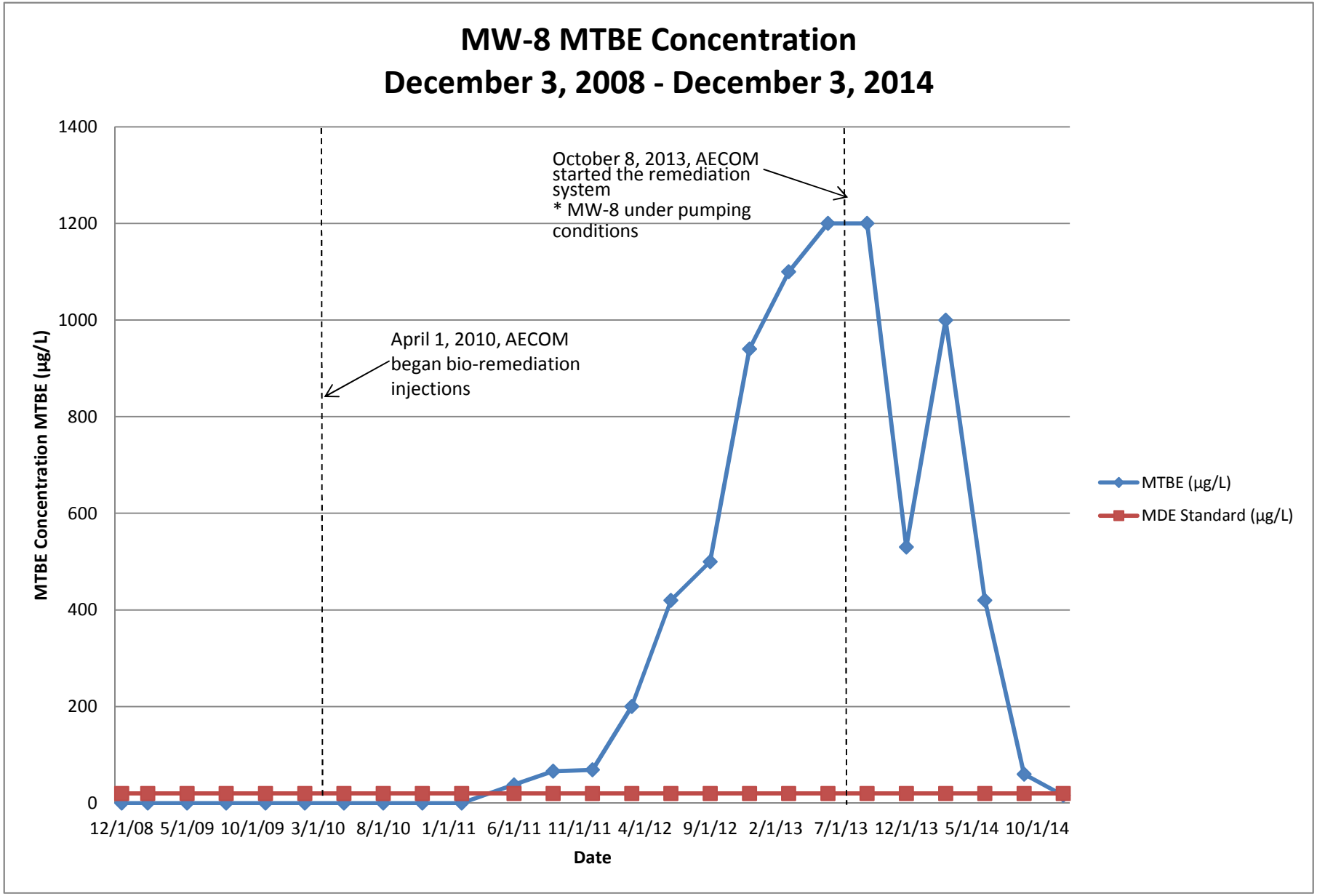
PM Review and Approval: Amy Friedlander Date: 12/05/2014

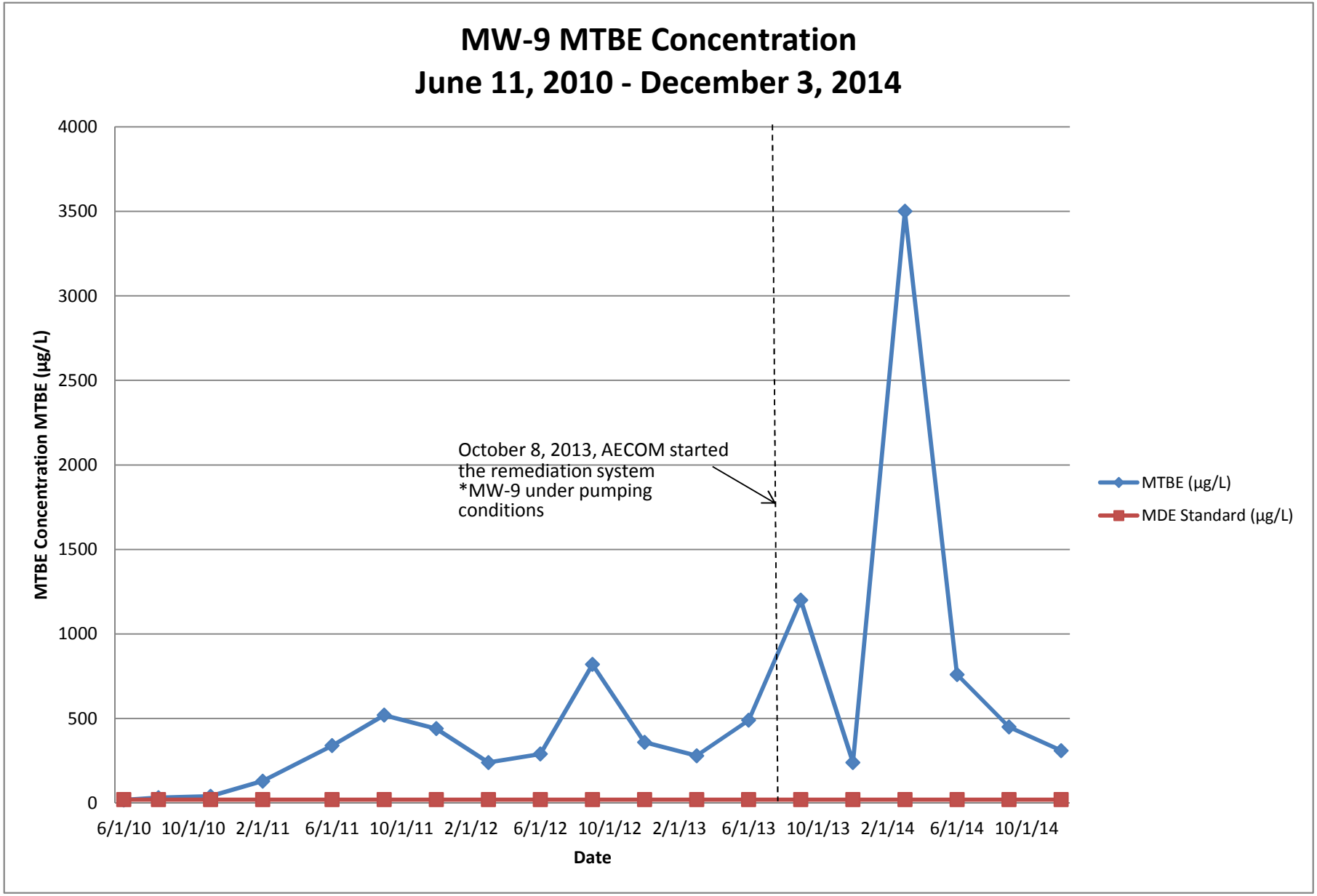
ATTACHMENT B

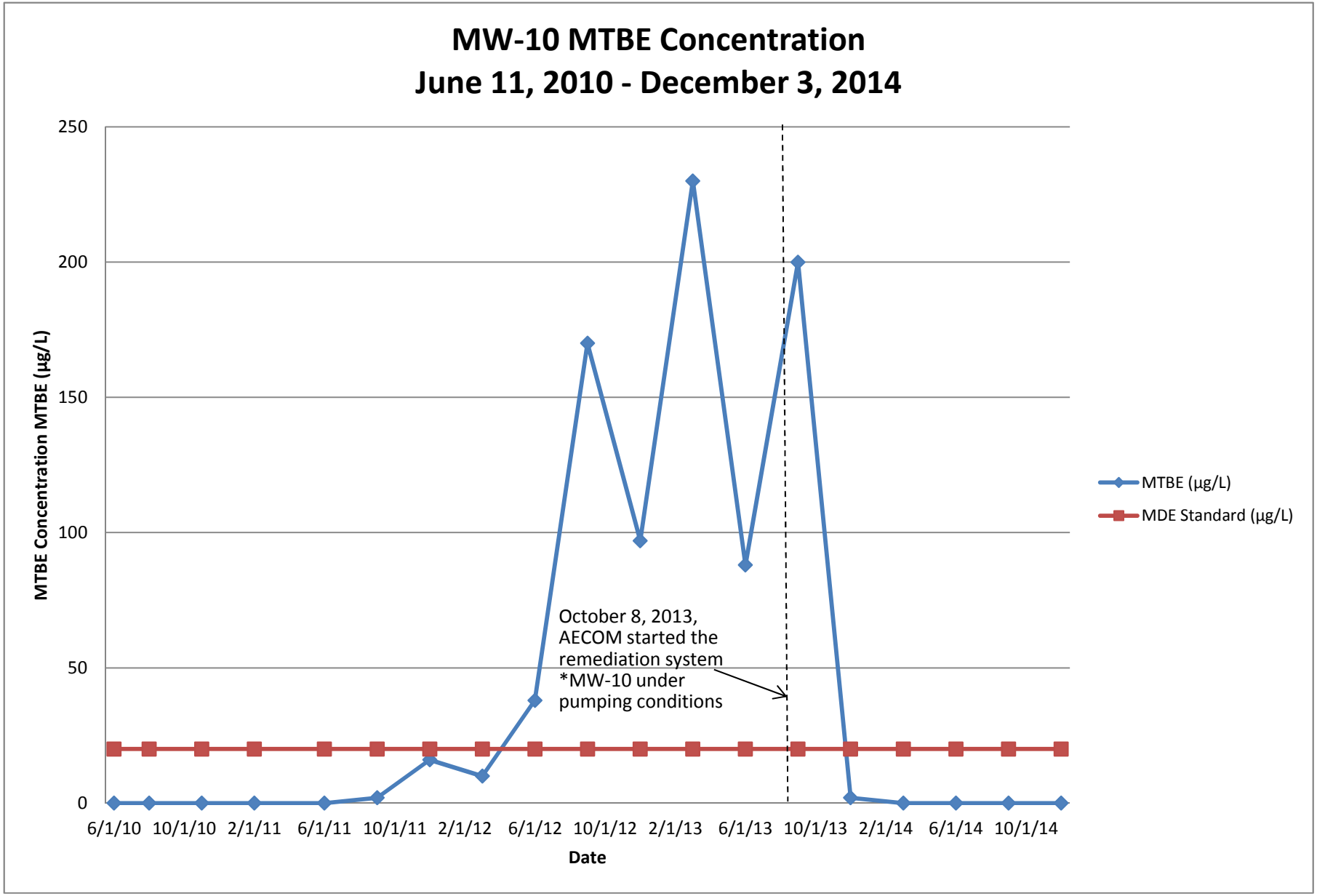
MTBE Concentration Graphs-Over-Time


MW-1 MTBE Concentration
July 25, 2005 - December 3, 2014
100,000
10,000
1,000
100
10
1
MTBE Concentration MTBE (µg/L)
April 1, 2010, AECOM began bio-remediation injections
October 8, 2013, AECOM started the remediation system
7/1/05
3/1/06
11/1/06
7/1/07
3/1/08
11/1/08
7/1/09
3/1/10
11/1/10
7/1/11
3/1/12
11/1/12
7/1/13
3/1/14
11/1/14
Date
MTBE (µg/L)
MDE Standard (µg/L)


MW-6 MTBE Concentration
December 3, 2008 - December 3, 2014
25,000
20,000
15,000
10,000
5,000
0
MTBE Concentration MTBE (µg/L)
April 1, 2010, AECOM began bio-remediation injections
October 8, 2013, AECOM started the remediation system
12/1/08
7/1/09
2/1/10
9/1/10
4/1/11
11/1/11
6/1/12
1/1/13
8/1/13
3/1/14
10/1/14
Date
MTBE (µg/L)
MDE Standard (µg/L)


MW-8 MTBE Concentration
December 3, 2008 - December 3, 2014
MTBE Concentration MTBE (µg/L)
1400
1200
1000
800
600
400
200
0
12/1/08
5/1/09
10/1/09
3/1/10
8/1/10
1/1/11
6/1/11
11/1/11
4/1/12
9/1/12
2/1/13
7/1/13
12/1/13
5/1/14
10/1/14
Date
October 8, 2013, AECOM started the remediation system
* MW-8 under pumping conditions
April 1, 2010, AECOM began bio-remediation injections
MTBE (µg/L)
MDE Standard (µg/L)


MW-9 MTBE Concentration
June 11, 2010 - December 3, 2014
MTBE Concentration MTBE (µg/L)
4000
3500
3000
2500
2000
1500
1000
500
0
6/1/10
10/1/10
2/1/11
6/1/11
10/1/11
2/1/12
6/1/12
10/1/12
2/1/13
6/1/13
10/1/13
2/1/14
6/1/14
10/1/14
Date
October 8, 2013, AECOM started the remediation system *MW-9 under pumping conditions
MTBE (µg/L)
MDE Standard (µg/L)


MW-10 MTBE Concentration
June 11, 2010 - December 3, 2014
MTBE Concentration MTBE (µg/L)
250
200
150
100
50
0
6/1/10
10/1/10
2/1/11
6/1/11
10/1/11
2/1/12
6/1/12
10/1/12
2/1/13
6/1/13
10/1/13
2/1/14
6/1/14
10/1/14
Date
October 8, 2013,
AECOM started the
remediation system
*MW-10 under
pumping conditions
MTBE (µg/L)
MDE Standard (µg/L)

ATTACHMENT C

Residential Treatment and Non-Treatment Potable Well Lab Reports

Analytical Report for

AECOM

Certificate of Analysis No.: 14103121

Project Manager: John Canzeri
Project Name : 7-11 Store #32785
Project Location: Hampstead, MD
Project ID : 60144916

November 7, 2014

Phase Separation Science, Inc.
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Baltimore, MD 21228
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PHASE SEPARATION SCIENCE, INC.

November 7, 2014

John Canzeri
AECOM
430 National Business Parkway
Annapolis Junction, MD 20701

Reference: PSS Work Order(s) No: **14103121**
Project Name: 7-11 Store #32785
Project Location: Hampstead, MD
Project ID.: 60144916

Dear John Canzeri :

This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order(s) numbered **14103121**.

All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on December 5, 2014. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt , the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 5 years, after which time it will be disposed of without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Sincerely,

Dan Prucnal
Laboratory Manager

Sample Summary

Client Name: AECOM

Project Name: 7-11 Store #32785

Work Order Number(s): 14103121

Project ID: 60144916

The following samples were received under chain of custody by Phase Separation Science (PSS) on 10/31/2014 at 01:32 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
14103121-001	124 Hanover INF	GROUND WATER	10/31/14 09:07
14103121-002	124 Hanover GAC1	GROUND WATER	10/31/14 09:04
14103121-003	124 Hanover GAC2	GROUND WATER	10/31/14 09:01
14103121-004	124 Hanover Final EFF	GROUND WATER	10/31/14 08:58

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

Notes:

1. The presence of a common laboratory contaminant such as methylene chloride may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. Unless otherwise noted in the case narrative, results are reported on a dry weight basis with the exception of pH, flashpoint, moisture, and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminates, and part 141.3, for the secondary drinking water contaminates.
5. Sample prepared under EPA 3550C with concentrations greater than 20 mg/Kg should employ the microtip extraction procedure if required to meet data quality objectives.
6. The analysis of acrolein by EPA 624 must be analyzed within three days of sampling unless pH is adjusted to 4-5 units [40 CFR part 136.3(e)].

Standard Flags/Abbreviations:

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
C Results Pending Final Confirmation.
E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
J The target analyte was positively identified below the reporting limit but greater than the LOD.
LOD Limit of Detection. An estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte and matrix specific.
ND Not Detected at or above the reporting limit.
RL PSS Reporting Limit.
U Not detected.

Certifications:

NELAP Certifications: PA 68-03330, VA 460156
State Certifications: MD 179, WV 303
Regulated Soil Permit: P330-12-00268
NSWC USCG Accepted Laboratory
LDBE MWAA LD1997-0041-2015

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14103121

AECOM, Annapolis Junction, MD

November 7, 2014

Project Name: 7-11 Store #32785
Project Location: Hampstead, MD
Project ID: 60144916

Sample ID: 124 Hanover INF **Date/Time Sampled: 10/31/2014 09:07** **PSS Sample ID: 14103121-001**
Matrix: GROUND WATER **Date/Time Received: 10/31/2014 13:32**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
Bromobenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
Bromochloromethane	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
Bromodichloromethane	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
Bromoform	ND	ug/L	5.0		1	11/05/14	11/06/14 02:48	1011
Bromomethane	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
tert-Butylbenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
sec-Butylbenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
n-Butylbenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
Carbon Tetrachloride	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
Chlorobenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
Chloroethane	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
Chloroform	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
Chloromethane	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
2-Chlorotoluene	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
4-Chlorotoluene	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	11/05/14	11/06/14 02:48	1011
Dibromochloromethane	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
1,2-Dibromoethane	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
Dibromomethane	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
1,2-Dichlorobenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
1,3-Dichlorobenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
1,4-Dichlorobenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
Dichlorodifluoromethane	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
1,1-Dichloroethane	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
1,2-Dichloroethane	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
1,1-Dichloroethene	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
1,2-Dichloropropane	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14103121

AECOM, Annapolis Junction, MD

November 7, 2014

Project Name: 7-11 Store #32785
Project Location: Hampstead, MD
Project ID: 60144916

Sample ID: 124 Hanover INF **Date/Time Sampled: 10/31/2014 09:07** **PSS Sample ID: 14103121-001**
Matrix: GROUND WATER **Date/Time Received: 10/31/2014 13:32**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,3-Dichloropropane	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
2,2-Dichloropropane	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
1,1-Dichloropropene	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
cis-1,3-Dichloropropene	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
Ethylbenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
Isopropylbenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
4-Isopropyltoluene	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
Methylene Chloride	ND	ug/L	5.0		1	11/05/14	11/06/14 02:48	1011
Methyl-t-butyl ether	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
Naphthalene	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
n-Propylbenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
Styrene	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
Diisopropyl ether	ND	ug/L	5.0		1	11/05/14	11/06/14 02:48	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
Tetrachloroethylene	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
Toluene	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	11/05/14	11/06/14 02:48	1011
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
1,1,1-Trichloroethane	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
1,1,2-Trichloroethane	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
Trichloroethene	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
1,2,3-Trichloropropane	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
1,2,4-Trimethylbenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
1,3,5-Trimethylbenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
Vinyl Chloride	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
o-Xylene	ND	ug/L	0.50		1	11/05/14	11/06/14 02:48	1011
m,p-Xylenes	ND	ug/L	1.0		1	11/05/14	11/06/14 02:48	1011
tert-Butyl ethyl ether	ND	ug/L	5.0		1	11/05/14	11/06/14 02:48	1011
tert-Butyl alcohol	ND	ug/L	20		1	11/05/14	11/06/14 02:48	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14103121

AECOM, Annapolis Junction, MD

November 7, 2014

Project Name: 7-11 Store #32785
Project Location: Hampstead, MD
Project ID: 60144916

Sample ID: 124 Hanover INF **Date/Time Sampled: 10/31/2014 09:07** **PSS Sample ID: 14103121-001**
Matrix: GROUND WATER **Date/Time Received: 10/31/2014 13:32**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
tert-Amyl methyl ether	ND	ug/L	5.0		1	11/05/14	11/06/14 02:48	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14103121

AECOM, Annapolis Junction, MD

November 7, 2014

Project Name: 7-11 Store #32785
Project Location: Hampstead, MD
Project ID: 60144916

Sample ID: 124 Hanover GAC1 **Date/Time Sampled: 10/31/2014 09:04** **PSS Sample ID: 14103121-002**
Matrix: GROUND WATER **Date/Time Received: 10/31/2014 13:32**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
Bromobenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
Bromochloromethane	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
Bromodichloromethane	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
Bromoform	ND	ug/L	5.0		1	11/05/14	11/06/14 00:07	1011
Bromomethane	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
tert-Butylbenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
sec-Butylbenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
n-Butylbenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
Carbon Tetrachloride	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
Chlorobenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
Chloroethane	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
Chloroform	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
Chloromethane	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
2-Chlorotoluene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
4-Chlorotoluene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	11/05/14	11/06/14 00:07	1011
Dibromochloromethane	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
1,2-Dibromoethane	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
Dibromomethane	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
1,2-Dichlorobenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
1,3-Dichlorobenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
1,4-Dichlorobenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
Dichlorodifluoromethane	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
1,1-Dichloroethane	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
1,2-Dichloroethane	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
1,1-Dichloroethene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
1,2-Dichloropropane	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14103121

AECOM, Annapolis Junction, MD

November 7, 2014

Project Name: 7-11 Store #32785
Project Location: Hampstead, MD
Project ID: 60144916

Sample ID: 124 Hanover GAC1 **Date/Time Sampled: 10/31/2014 09:04** **PSS Sample ID: 14103121-002**
Matrix: GROUND WATER **Date/Time Received: 10/31/2014 13:32**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,3-Dichloropropane	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
2,2-Dichloropropane	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
1,1-Dichloropropene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
cis-1,3-Dichloropropene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
Ethylbenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
Isopropylbenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
4-Isopropyltoluene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
Methylene Chloride	ND	ug/L	5.0		1	11/05/14	11/06/14 00:07	1011
Methyl-t-butyl ether	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
Naphthalene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
n-Propylbenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
Styrene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
Diisopropyl ether	ND	ug/L	5.0		1	11/05/14	11/06/14 00:07	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
Tetrachloroethylene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
Toluene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	11/05/14	11/06/14 00:07	1011
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
1,1,1-Trichloroethane	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
1,1,2-Trichloroethane	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
Trichloroethene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
1,2,3-Trichloropropane	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
1,2,4-Trimethylbenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
1,3,5-Trimethylbenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
Vinyl Chloride	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
o-Xylene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:07	1011
m,p-Xylenes	ND	ug/L	1.0		1	11/05/14	11/06/14 00:07	1011
tert-Butyl ethyl ether	ND	ug/L	5.0		1	11/05/14	11/06/14 00:07	1011
tert-Butyl alcohol	ND	ug/L	20		1	11/05/14	11/06/14 00:07	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14103121

AECOM, Annapolis Junction, MD

November 7, 2014

Project Name: 7-11 Store #32785
Project Location: Hampstead, MD
Project ID: 60144916

Sample ID: 124 Hanover GAC1 **Date/Time Sampled: 10/31/2014 09:04** **PSS Sample ID: 14103121-002**
Matrix: GROUND WATER **Date/Time Received: 10/31/2014 13:32**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
tert-Amyl methyl ether	ND	ug/L	5.0		1	11/05/14	11/06/14 00:07	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14103121

AECOM, Annapolis Junction, MD

November 7, 2014

Project Name: 7-11 Store #32785
Project Location: Hampstead, MD
Project ID: 60144916

Sample ID: 124 Hanover GAC2 **Date/Time Sampled: 10/31/2014 09:01** **PSS Sample ID: 14103121-003**
Matrix: GROUND WATER **Date/Time Received: 10/31/2014 13:32**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
Bromobenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
Bromochloromethane	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
Bromodichloromethane	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
Bromoform	ND	ug/L	5.0		1	11/05/14	11/06/14 00:47	1011
Bromomethane	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
tert-Butylbenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
sec-Butylbenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
n-Butylbenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
Carbon Tetrachloride	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
Chlorobenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
Chloroethane	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
Chloroform	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
Chloromethane	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
2-Chlorotoluene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
4-Chlorotoluene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	11/05/14	11/06/14 00:47	1011
Dibromochloromethane	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
1,2-Dibromoethane	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
Dibromomethane	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
1,2-Dichlorobenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
1,3-Dichlorobenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
1,4-Dichlorobenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
Dichlorodifluoromethane	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
1,1-Dichloroethane	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
1,2-Dichloroethane	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
1,1-Dichloroethene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
1,2-Dichloropropane	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14103121

AECOM, Annapolis Junction, MD

November 7, 2014

Project Name: 7-11 Store #32785
Project Location: Hampstead, MD
Project ID: 60144916

Sample ID: 124 Hanover GAC2 **Date/Time Sampled: 10/31/2014 09:01** **PSS Sample ID: 14103121-003**
Matrix: GROUND WATER **Date/Time Received: 10/31/2014 13:32**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,3-Dichloropropane	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
2,2-Dichloropropane	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
1,1-Dichloropropene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
cis-1,3-Dichloropropene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
Ethylbenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
Isopropylbenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
4-Isopropyltoluene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
Methylene Chloride	ND	ug/L	5.0		1	11/05/14	11/06/14 00:47	1011
Methyl-t-butyl ether	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
Naphthalene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
n-Propylbenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
Styrene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
Diisopropyl ether	ND	ug/L	5.0		1	11/05/14	11/06/14 00:47	1011
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
Tetrachloroethylene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
Toluene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	11/05/14	11/06/14 00:47	1011
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
1,1,1-Trichloroethane	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
1,1,2-Trichloroethane	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
Trichloroethene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
1,2,3-Trichloropropane	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
1,2,4-Trimethylbenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
1,3,5-Trimethylbenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
Vinyl Chloride	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
o-Xylene	ND	ug/L	0.50		1	11/05/14	11/06/14 00:47	1011
m,p-Xylenes	ND	ug/L	1.0		1	11/05/14	11/06/14 00:47	1011
tert-Butyl ethyl ether	ND	ug/L	5.0		1	11/05/14	11/06/14 00:47	1011
tert-Butyl alcohol	ND	ug/L	20		1	11/05/14	11/06/14 00:47	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14103121

AECOM, Annapolis Junction, MD

November 7, 2014

Project Name: 7-11 Store #32785
Project Location: Hampstead, MD
Project ID: 60144916

Sample ID: 124 Hanover GAC2 **Date/Time Sampled: 10/31/2014 09:01** **PSS Sample ID: 14103121-003**
Matrix: GROUND WATER **Date/Time Received: 10/31/2014 13:32**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
tert-Amyl methyl ether	ND	ug/L	5.0		1	11/05/14	11/06/14 00:47	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14103121

AECOM, Annapolis Junction, MD

November 7, 2014

Project Name: 7-11 Store #32785
Project Location: Hampstead, MD
Project ID: 60144916

Sample ID: 124 Hanover Final EFF **Date/Time Sampled: 10/31/2014 08:58** **PSS Sample ID: 14103121-004**
Matrix: GROUND WATER **Date/Time Received: 10/31/2014 13:32**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
Bromobenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
Bromochloromethane	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
Bromodichloromethane	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
Bromoform	ND	ug/L	5.0		1	11/05/14	11/06/14 01:27	1011
Bromomethane	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
tert-Butylbenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
sec-Butylbenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
n-Butylbenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
Carbon Tetrachloride	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
Chlorobenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
Chloroethane	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
Chloroform	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
Chloromethane	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
2-Chlorotoluene	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
4-Chlorotoluene	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	11/05/14	11/06/14 01:27	1011
Dibromochloromethane	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
1,2-Dibromoethane	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
Dibromomethane	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
1,2-Dichlorobenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
1,3-Dichlorobenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
1,4-Dichlorobenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
Dichlorodifluoromethane	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
1,1-Dichloroethane	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
1,2-Dichloroethane	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
1,1-Dichloroethene	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
1,2-Dichloropropane	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011

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CERTIFICATE OF ANALYSIS

No: 14103121

AECOM, Annapolis Junction, MD

November 7, 2014

Project Name: 7-11 Store #32785
Project Location: Hampstead, MD
Project ID: 60144916

Sample ID: 124 Hanover Final EFF **Date/Time Sampled: 10/31/2014 08:58** **PSS Sample ID: 14103121-004**
Matrix: GROUND WATER **Date/Time Received: 10/31/2014 13:32**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,3-Dichloropropane	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
2,2-Dichloropropane	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
1,1-Dichloropropene	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
cis-1,3-Dichloropropene	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
Ethylbenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
Isopropylbenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
4-Isopropyltoluene	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
Methylene Chloride	ND	ug/L	5.0		1	11/05/14	11/06/14 01:27	1011
Methyl-t-butyl ether	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
Naphthalene	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
n-Propylbenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
Styrene	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
Diisopropyl ether	ND	ug/L	5.0		1	11/05/14	11/06/14 01:27	1011
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
Tetrachloroethylene	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
Toluene	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	11/05/14	11/06/14 01:27	1011
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
1,1,1-Trichloroethane	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
1,1,2-Trichloroethane	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
Trichloroethene	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
1,2,3-Trichloropropane	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
1,2,4-Trimethylbenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
1,3,5-Trimethylbenzene	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
Vinyl Chloride	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
o-Xylene	ND	ug/L	0.50		1	11/05/14	11/06/14 01:27	1011
m,p-Xylenes	ND	ug/L	1.0		1	11/05/14	11/06/14 01:27	1011
tert-Butyl ethyl ether	ND	ug/L	5.0		1	11/05/14	11/06/14 01:27	1011
tert-Butyl alcohol	ND	ug/L	20		1	11/05/14	11/06/14 01:27	1011

OFFICES:
6630 BALTIMORE NATIONAL PIKE
ROUTE 40 WEST
BALTIMORE, MD 21228
410-747-8770
800-932-9047
FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14103121

AECOM, Annapolis Junction, MD

November 7, 2014

Project Name: 7-11 Store #32785
Project Location: Hampstead, MD
Project ID: 60144916

Sample ID: 124 Hanover Final EFF **Date/Time Sampled: 10/31/2014 08:58** **PSS Sample ID: 14103121-004**
Matrix: GROUND WATER **Date/Time Received: 10/31/2014 13:32**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
tert-Amyl methyl ether	ND	ug/L	5.0		1	11/05/14	11/06/14 01:27	1011

Case Narrative Summary

Client Name: AECOM

Project Name: 7-11 Store #32785

Work Order Number(s): 14103121
Project ID: 60144916

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

The analyses of chlorine, pH, dissolved oxygen, temperature and sulfite for drinking water and non-potable samples tested for compliance have a maximum holding time of 15 minutes. As such, all laboratory analyses for these analytes exceed holding times.

Sample Receipt:

All sample receipt conditions were acceptable.

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.

Analytical Data Package Information Summary

Work Order(s): 14103121
Report Prepared For: AECOM, Annapolis Junction, MD
Project Name: 7 Eleven - gen'l
Project Manager: John Canzeri

Method	Client Sample Id	Analysis Type	Lab Sample Id	Analyst	Mtx	Prep Batch	Analytical Batch	Sampled	Prepared	Analyzed
EPA 524.2	124 Hanover INF	Initial	14103121-001	1011	W	52846	118050	10/31/2014	11/05/2014 15:48	11/06/2014 02:48
	124 Hanover GAC1	Initial	14103121-002	1011	W	52846	118050	10/31/2014	11/05/2014 15:48	11/06/2014 00:07
	124 Hanover GAC2	Initial	14103121-003	1011	W	52846	118050	10/31/2014	11/05/2014 15:48	11/06/2014 00:47
	124 Hanover Final EFF	Initial	14103121-004	1011	W	52846	118050	10/31/2014	11/05/2014 15:48	11/06/2014 01:27
	52846-1-BKS	BKS	52846-1-BKS	1011	W	52846	118050	--------	11/05/2014 15:48	11/05/2014 17:22
	52846-1-BLK	BLK	52846-1-BLK	1011	W	52846	118050	--------	11/05/2014 15:48	11/05/2014 20:04
	52846-1-BSD	BSD	52846-1-BSD	1011	W	52846	118050	--------	11/05/2014 15:48	11/05/2014 18:03

PHASE SEPARATION SCIENCE, INC.

QC Summary 14103121

AECOM
7-11 Store #32785

Analytical Method: EPA 524.2 Prep Method: E524.2PREP
Seq Number: 118050 Matrix: Ground Water Date Prep: 11/05/2014
PSS Sample ID: 14103121-001

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	108		83-115	%	11/06/14 02:48
Dibromofluoromethane	103		89-106	%	11/06/14 02:48
Toluene-D8	105		94-109	%	11/06/14 02:48

Analytical Method: EPA 524.2 Prep Method: E524.2PREP
Seq Number: 118050 Matrix: Ground Water Date Prep: 11/05/2014
PSS Sample ID: 14103121-002

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	108		83-115	%	11/06/14 00:07
Dibromofluoromethane	103		89-106	%	11/06/14 00:07
Toluene-D8	106		94-109	%	11/06/14 00:07

Analytical Method: EPA 524.2 Prep Method: E524.2PREP
Seq Number: 118050 Matrix: Ground Water Date Prep: 11/05/2014
PSS Sample ID: 14103121-003

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	109		83-115	%	11/06/14 00:47
Dibromofluoromethane	104		89-106	%	11/06/14 00:47
Toluene-D8	105		94-109	%	11/06/14 00:47

Analytical Method: EPA 524.2 Prep Method: E524.2PREP
Seq Number: 118050 Matrix: Ground Water Date Prep: 11/05/2014
PSS Sample ID: 14103121-004

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	108		83-115	%	11/06/14 01:27
Dibromofluoromethane	106		89-106	%	11/06/14 01:27
Toluene-D8	104		94-109	%	11/06/14 01:27

F = RPD exceeded the laboratory control limits
X = Recovery of MS, MSD or both outside of QC Criteria
H= Recovery of BS,BSD or both exceeded the laboratory control limits
L = Recovery of BS,BSD or both below the laboratory control limits

PHASE SEPARATION SCIENCE, INC.

QC Summary 14103121

AECOM
7-11 Store #32785

Analytical Method: EPA 524.2 Prep Method: E524.2PREP
Seq Number: 118050 Matrix: Water Date Prep: 11/05/14
MB Sample Id: 52846-1-BLK LCS Sample Id: 52846-1-BKS LCSD Sample Id: 52846-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.5000	10.00	10.62	106	10.73	107	70-130	1	30	ug/L	11/05/14 17:22	
Bromobenzene	<0.5000	10.00	9.890	99	10.40	104	70-130	5	30	ug/L	11/05/14 17:22	
Bromochloromethane	<0.5000	10.00	9.920	99	10.61	106	70-130	7	30	ug/L	11/05/14 17:22	
Bromodichloromethane	<0.5000	10.00	10.36	104	10.73	107	70-130	4	30	ug/L	11/05/14 17:22	
Bromoform	<5.000	20.00	18.97	95	20.43	102	70-130	7	30	ug/L	11/05/14 17:22	
Bromomethane	<0.5000	10.00	10.87	109	10.58	106	70-130	3	30	ug/L	11/05/14 17:22	
tert-Butylbenzene	<0.5000	10.00	10.75	108	10.67	107	70-130	1	30	ug/L	11/05/14 17:22	
sec-Butylbenzene	<0.5000	10.00	10.85	109	10.75	108	70-130	1	30	ug/L	11/05/14 17:22	
n-Butylbenzene	<0.5000	10.00	10.97	110	10.80	108	70-130	2	30	ug/L	11/05/14 17:22	
Carbon Tetrachloride	<0.5000	10.00	11.22	112	11.27	113	70-130	0	30	ug/L	11/05/14 17:22	
Chlorobenzene	<0.5000	10.00	10.43	104	10.57	106	70-130	1	30	ug/L	11/05/14 17:22	
Chloroethane	<0.5000	10.00	11.32	113	10.97	110	70-130	3	30	ug/L	11/05/14 17:22	
Chloroform	<0.5000	10.00	9.950	100	10.21	102	70-130	3	30	ug/L	11/05/14 17:22	
Chloromethane	<0.5000	10.00	11.08	111	10.55	106	70-130	5	30	ug/L	11/05/14 17:22	
2-Chlorotoluene	<0.5000	10.00	10.47	105	10.51	105	70-130	0	30	ug/L	11/05/14 17:22	
4-Chlorotoluene	<0.5000	10.00	10.36	104	10.66	107	70-130	3	30	ug/L	11/05/14 17:22	
1,2-Dibromo-3-Chloropropane	<5.000	50.00	48.69	97	53.73	107	70-130	10	30	ug/L	11/05/14 17:22	
Dibromochloromethane	<0.5000	10.00	9.700	97	10.34	103	70-130	6	30	ug/L	11/05/14 17:22	
1,2-Dibromoethane	<0.5000	10.00	9.850	99	10.58	106	70-130	7	30	ug/L	11/05/14 17:22	
Dibromomethane	<0.5000	10.00	9.970	100	10.68	107	70-130	7	30	ug/L	11/05/14 17:22	
1,2-Dichlorobenzene	<0.5000	10.00	9.940	99	10.55	106	70-130	6	30	ug/L	11/05/14 17:22	
1,3-Dichlorobenzene	<0.5000	10.00	10.20	102	10.44	104	70-130	2	30	ug/L	11/05/14 17:22	
1,4-Dichlorobenzene	<0.5000	10.00	9.960	100	10.42	104	70-130	5	30	ug/L	11/05/14 17:22	
Dichlorodifluoromethane	<0.5000	10.00	11.12	111	11.12	111	70-130	0	30	ug/L	11/05/14 17:22	
1,1-Dichloroethane	<0.5000	10.00	10.50	105	10.64	106	70-130	1	30	ug/L	11/05/14 17:22	
1,2-Dichloroethane	<0.5000	10.00	10.27	103	10.71	107	70-130	4	30	ug/L	11/05/14 17:22	
cis-1,2-Dichloroethene	<0.5000	10.00	10.15	102	10.63	106	70-130	5	30	ug/L	11/05/14 17:22	
trans-1,2-Dichloroethene	<0.5000	10.00	10.37	104	10.47	105	70-130	1	30	ug/L	11/05/14 17:22	
1,1-Dichloroethene	<0.5000	10.00	10.86	109	10.47	105	70-130	4	30	ug/L	11/05/14 17:22	
1,2-Dichloropropane	<0.5000	10.00	10.22	102	10.72	107	70-130	5	30	ug/L	11/05/14 17:22	
1,3-Dichloropropane	<0.5000	10.00	9.840	98	10.61	106	70-130	8	30	ug/L	11/05/14 17:22	
2,2-Dichloropropane	<0.5000	10.00	11.40	114	11.33	113	70-130	1	30	ug/L	11/05/14 17:22	
1,1-Dichloropropene	<0.5000	10.00	10.90	109	10.96	110	70-130	1	30	ug/L	11/05/14 17:22	
cis-1,3-Dichloropropene	<0.5000	10.00	10.24	102	10.71	107	70-130	4	30	ug/L	11/05/14 17:22	
Ethylbenzene	<0.5000	10.00	10.64	106	10.67	107	70-130	0	30	ug/L	11/05/14 17:22	
Isopropylbenzene	<0.5000	10.00	10.86	109	10.79	108	70-130	1	30	ug/L	11/05/14 17:22	
4-Isopropyltoluene	<0.5000	10.00	10.80	108	10.70	107	70-130	1	30	ug/L	11/05/14 17:22	
Methylene Chloride	<5.000	10.00	9.870	99	10.35	104	70-130	5	30	ug/L	11/05/14 17:22	
Methyl-t-butyl ether	<0.5000	10.00	9.350	94	10.21	102	70-130	9	30	ug/L	11/05/14 17:22	
Naphthalene	<0.5000	10.00	9.730	97	10.51	105	70-130	8	30	ug/L	11/05/14 17:22	
n-Propylbenzene	<0.5000	10.00	10.89	109	10.86	109	70-130	0	30	ug/L	11/05/14 17:22	
Styrene	<0.5000	10.00	10.41	104	10.32	103	70-130	1	30	ug/L	11/05/14 17:22	
1,1,1,2-Tetrachloroethane	<0.5000	10.00	9.970	100	10.46	105	70-130	5	30	ug/L	11/05/14 17:22	
Diisopropyl ether	<5.000	40.00	38.01	95	39.91	100	70-130	5	30	ug/L	11/05/14 17:22	
1,1,2,2-Tetrachloroethane	<0.5000	10.00	9.550	96	10.38	104	70-130	8	30	ug/L	11/05/14 17:22	
Tetrachloroethylene	<0.5000	10.00	10.64	106	10.53	105	70-130	1	30	ug/L	11/05/14 17:22	
Toluene	<0.5000	10.00	10.68	107	10.69	107	70-130	0	30	ug/L	11/05/14 17:22	
1,2,3-Trichlorobenzene	<1.000	10.00	10.21	102	10.47	105	70-130	3	30	ug/L	11/05/14 17:22	
1,2,4-Trichlorobenzene	<0.5000	10.00	10.13	101	10.58	106	70-130	4	30	ug/L	11/05/14 17:22	
1,1,1-Trichloroethane	<0.5000	10.00	10.93	109	10.95	110	70-130	0	30	ug/L	11/05/14 17:22	
1,1,2-Trichloroethane	<0.5000	10.00	9.770	98	10.54	105	70-130	8	30	ug/L	11/05/14 17:22	

PHASE SEPARATION SCIENCE, INC.

QC Summary 14103121

AECOM
7-11 Store #32785

Analytical Method: EPA 524.2 Prep Method: E524.2PREP
Seq Number: 118050 Matrix: Water Date Prep: 11/05/14
MB Sample Id: 52846-1-BLK LCS Sample Id: 52846-1-BKS LCSD Sample Id: 52846-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Trichloroethene	<0.5000	10.00	10.69	107	10.74	107	70-130	0	30	ug/L	11/05/14 17:22	
1,2,3-Trichloropropane	<0.5000	10.00	9.010	90	9.850	99	70-130	9	30	ug/L	11/05/14 17:22	
1,2,4-Trimethylbenzene	<0.5000	10.00	10.46	105	10.66	107	70-130	2	30	ug/L	11/05/14 17:22	
1,3,5-Trimethylbenzene	<0.5000	10.00	10.83	108	10.82	108	70-130	0	30	ug/L	11/05/14 17:22	
Vinyl Chloride	<0.5000	10.00	11.76	118	11.04	110	70-130	6	30	ug/L	11/05/14 17:22	
o-Xylene	<0.5000	10.00	10.56	106	10.66	107	70-130	1	30	ug/L	11/05/14 17:22	
m,p-Xylenes	<1.000	20.00	21.11	106	21.01	105	70-130	0	30	ug/L	11/05/14 17:22	
tert-Butyl ethyl ether	<5.000	40.00	37.16	93	39.68	99	68-126	7	30	ug/L	11/05/14 17:22	
tert-Butyl alcohol	<20.00	80.00	69.20	87	74.40	93	54-122	7	30	ug/L	11/05/14 17:22	
tert-Amyl methyl ether	<5.000	40.00	36.72	92	38.98	97	67-124	6	30	ug/L	11/05/14 17:22	

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	LCSD Result	LCSD Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	107		98		101		83-115	%	11/05/14 17:22
Dibromofluoromethane	102		97		101		89-106	%	11/05/14 17:22
Toluene-D8	105		102		101		94-109	%	11/05/14 17:22

F = RPD exceeded the laboratory control limits
X = Recovery of MS, MSD or both outside of QC Criteria
H= Recovery of BS,BSD or both exceeded the laboratory control limits
L = Recovery of BS,BSD or both below the laboratory control limits

SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

PHASE SEPARATION SCIENCE, INC.

www.phaseonline.com
email: info@phaseonline.com

(1)

*CLIENT: AECOM *OFFICE LOC. Beltsville, MD

*PROJECT MGR: J. Canzeri *PHONE NO.: (410) 379 6900

EMAIL: FAX NO.: ( )

*PROJECT NAME: 7-11 Store 32785 PROJECT NO. 60144916

SITE LOCATION: Hampstead, MD P.O. NO.: 4581ACM

SAMPLER(S): Mike Parsons DW CERT NO.:

PSS Work Order #: 1410 3121 PAGE 1 OF 1

Matrix Codes: **SW**=Surface Wtr **DW**=Drinking Wtr **GW**=Ground Wtr **WW**=Waste Wtr **O**=Oil **S**=Soil **L**=Liquid **SOL**=Solid **A**=Air **WI**=Wipe

(2)

LAB NO.	*SAMPLE IDENTIFICATION	*DATE (SAMPLED)	*TIME (SAMPLED)	MATRIX (See Codes)	No. CONTAINERS	SAMPLE TYPE C = COMP G = GRAB	Preservatives Used: HCL	Analysis/ Method Required (3) *: 524.1 + DXY	REMARKS
1	124 Hanover INF	10/31/14	0907	GW	3	G			
2	124 Hanover GAC 1		0904		3				
3	124 Hanover GAC 2		0901		3				
4	124 Hanover FINAL EFF		0858		3				

(5)

Relinquished By: (1)	Date	Time	Received By:
(Parsons)	10-31-14	1332	D. Rivera
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

(4)

*Requested TAT (One TAT per COC): ☑ 5-Day ☐ 3-Day ☐ 2-Day ☐ Next Day ☐ Emergency ☐ Other

Data Deliverables Required: COA ☑ QC SUMM ☐ CLP LIKE ☐ OTHER ____

# of Coolers: 1

Custody Seal: ABSENT

Ice Present: PRESENT Temp: 2°C

Shipping Carrier: CLIENT

Special Instructions:

DW COMPLIANCE? YES ☐

EDD FORMAT TYPE: AECOM

STATE RESULTS REPORTED TO: MD ☑ DE ☐ PA ☐ VA ☐ WV ☐ OTHER ____

6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723

The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary. * = REQUIRED

Phase Separation Science, Inc

Sample Receipt Checklist

Work Order #	14103121	**Received By**	Shirley Rivera
Client Name	AECOM	**Date Received**	10/31/2014 01:32:00 PM
Project Name	7-11 Store #32785	**Delivered By**	Client
Project Number	60144916	**Tracking No**	Not Applicable
Disposal Date	12/05/2014	**Logged In By**	Lynn Jackson

Shipping Container(s)

No. of Coolers 1

		Ice	Present
Custody Seal(s) Intact?	N/A	Temp (deg C)	2
Seal(s) Signed / Dated?	N/A	Temp Blank Present	No

Documentation

		Sampler Name	Mike Parsons
COC agrees with sample labels?	Yes	MD DW Cert. No.	N/A
Chain of Custody	Yes		

Sample Container

		Custody Seal(s) Intact?	Not Applicable
Appropriate for Specified Analysis?	Yes	Seal(s) Signed / Dated	Not Applicable
Intact?	Yes		
Labeled and Labels Legible?	Yes		

Total No. of Samples Received 4

Total No. of Containers Received 12

Preservation

Metals	(pH<2)	N/A
Cyanides	(pH>12)	N/A
Sulfide	(pH>9)	N/A
TOC, COD, Phenols	(pH<2)	N/A
TOX, TKN, NH3, Total Phos	(pH<2)	N/A
VOC, BTEX (VOA Vials Rcvd Preserved)	(pH<2)	Yes
Do VOA vials have zero headspace?		Yes
624 VOC (Rcvd at least one unpreserved VOA vial)		N/A

Comments: (Any "No" response must be detailed in the comments section below.)

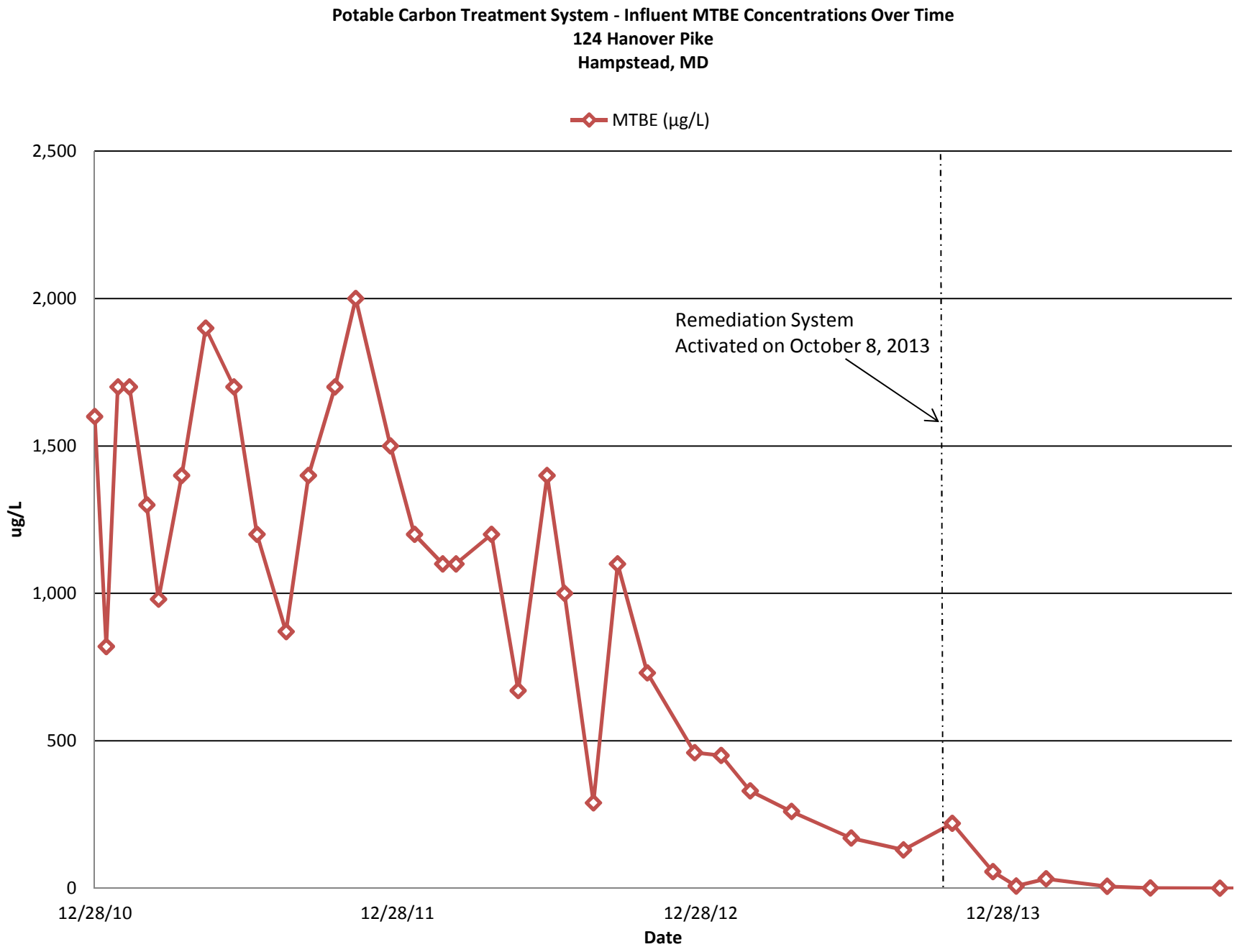
For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling. Samples which require thermal preservation shall be considered acceptable when received at a temperature above freezing to 6°C. Samples that are hand delivered on the day that they are collected may not meet these criteria but shall be considered acceptable if there is evidence that the chilling process has begun such as arrival on ice.

Samples Inspected/Checklist Completed By: N L Jackson — Lynn Jackson — Date: 10/31/2014

PM Review and Approval: Amy Friedlander — Amy Friedlander — Date: 10/31/2014

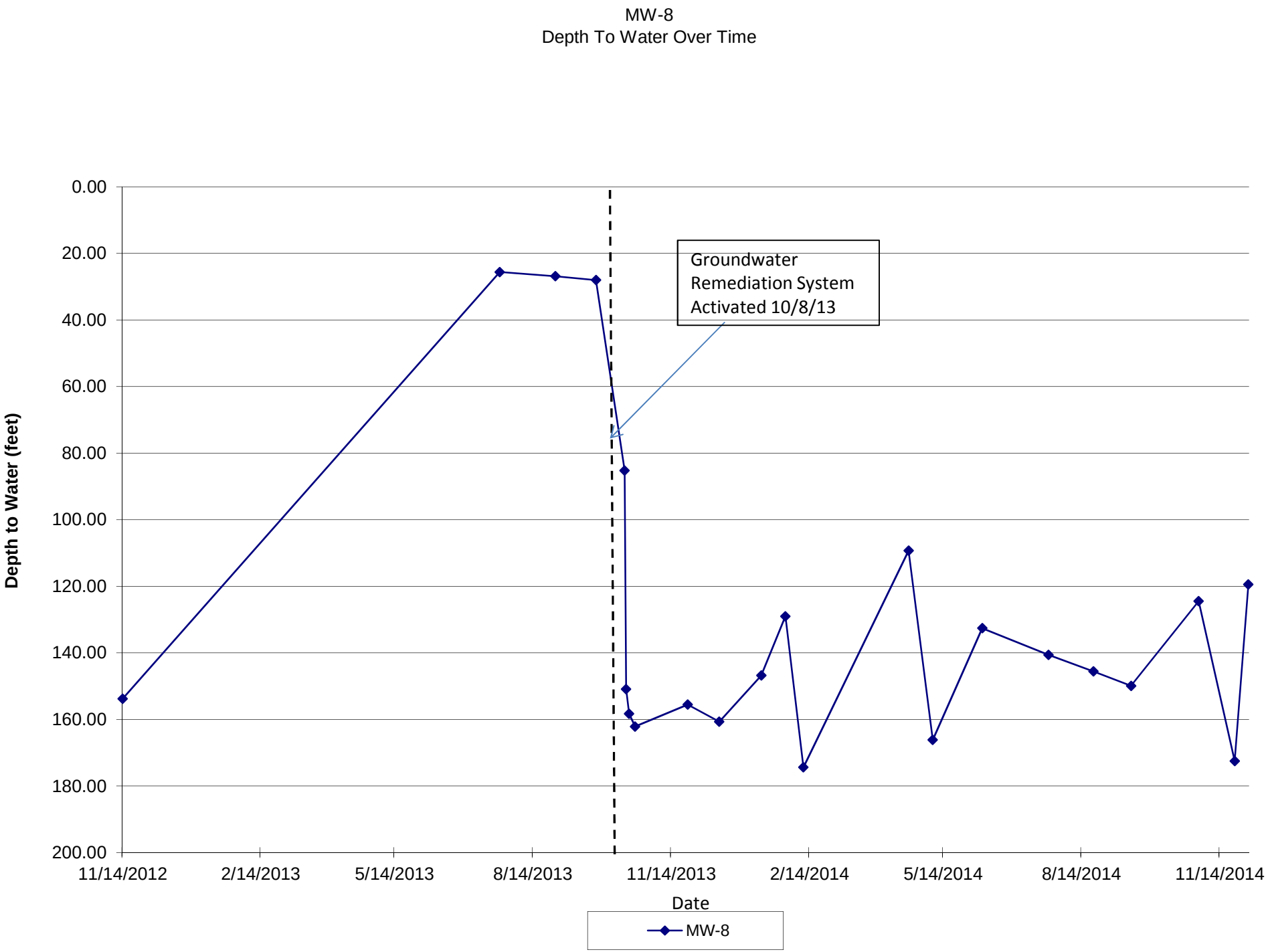
ATTACHMENT D

Residential Treatment System Influent MTBE Concentrations Over Time

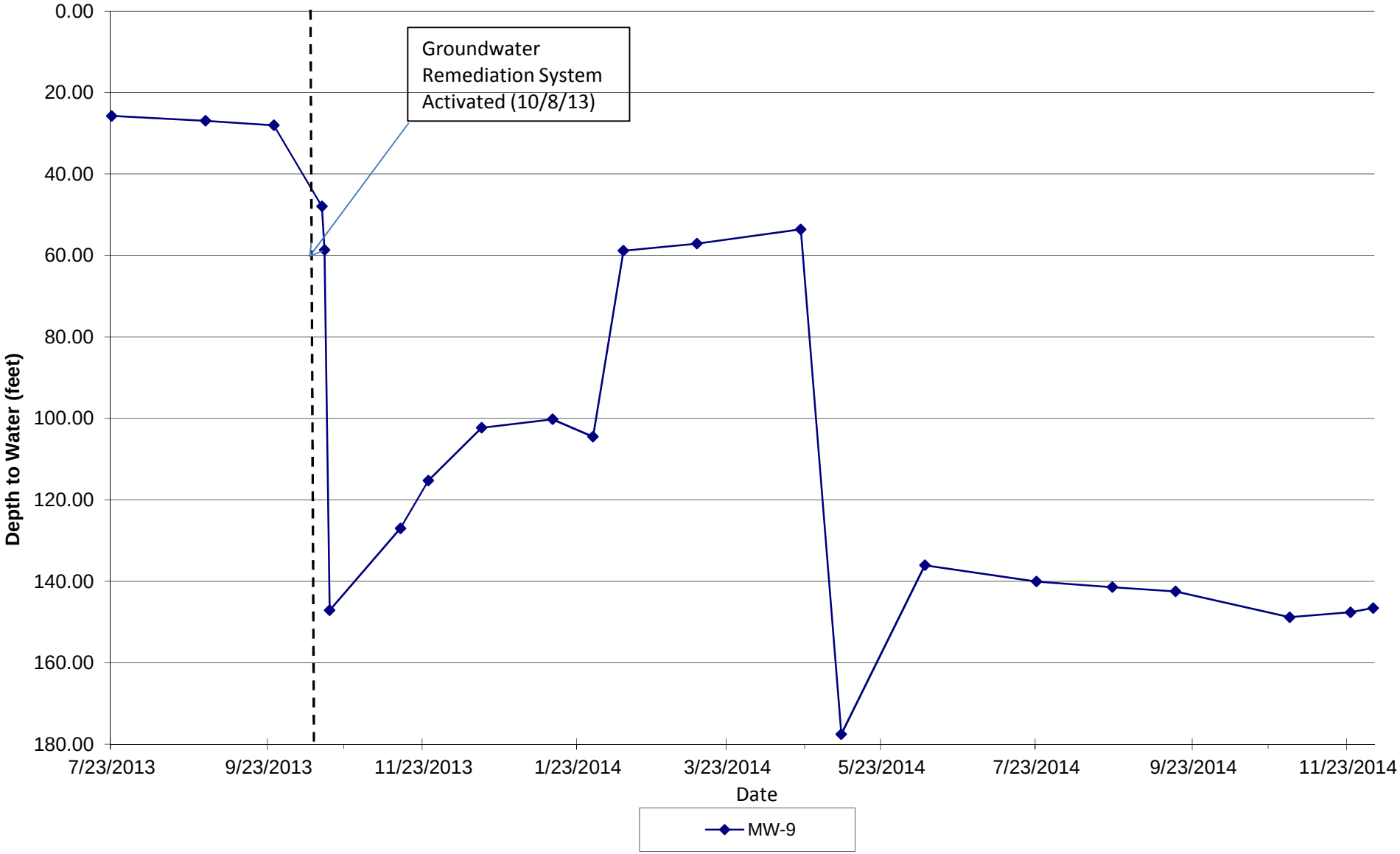

Potable Carbon Treatment System - Influent MTBE Concentrations Over Time
124 Hanover Pike
Hampstead, MD
MTBE (µg/L)
2,500
2,000
1,500
1,000
500
0
ug/L
Remediation System
Activated on October 8, 2013
12/28/10
12/28/11
12/28/12
12/28/13
Date

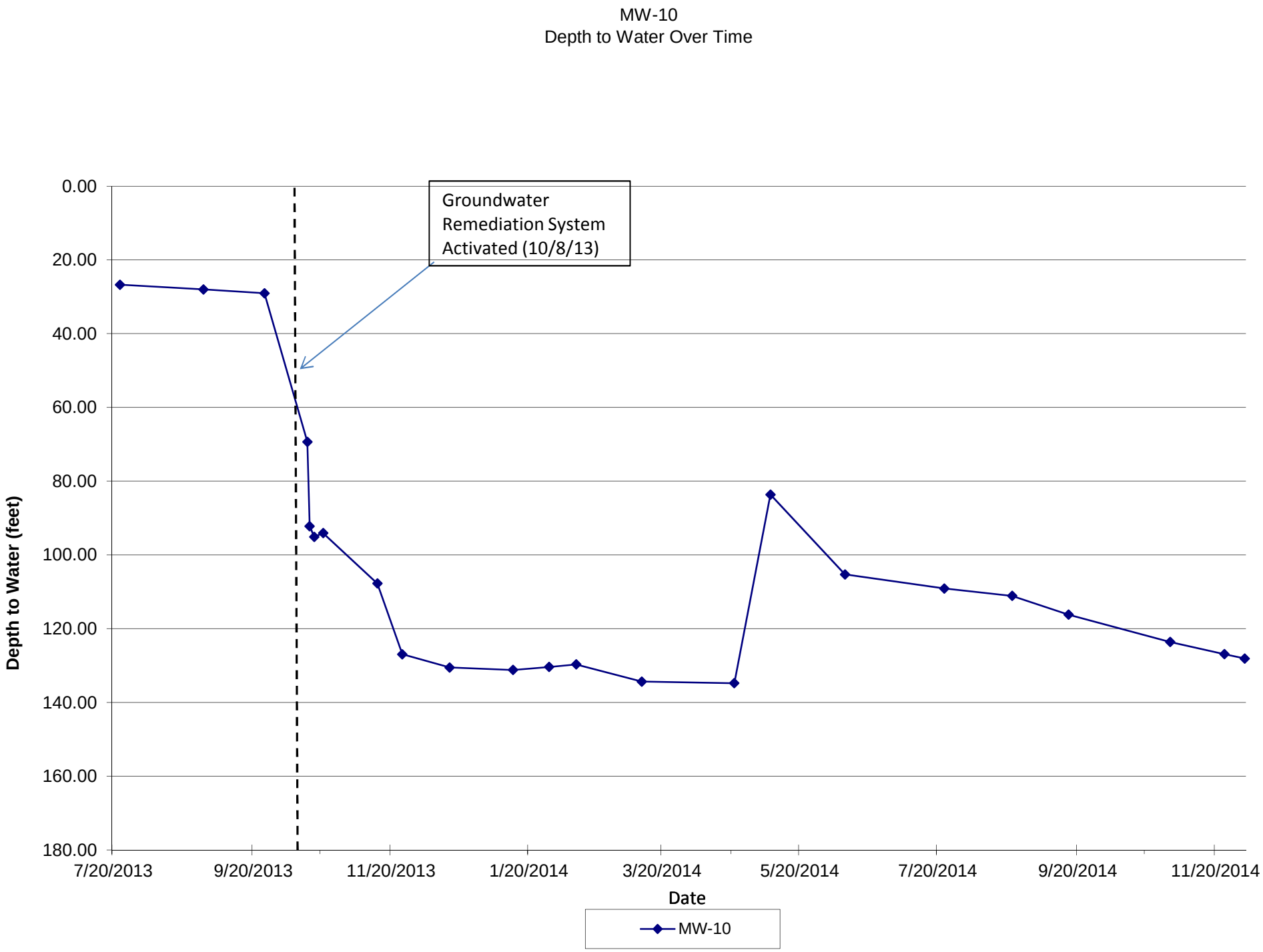
ATTACHMENT E

Groundwater Drawdown Graphs (Pumping Wells)


MW-8
Depth To Water Over Time
Groundwater Remediation System Activated 10/8/13
Depth to Water (feet)
0.00
20.00
40.00
60.00
80.00
100.00
120.00
140.00
160.00
180.00
200.00
11/14/2012
2/14/2013
5/14/2013
8/14/2013
11/14/2013
2/14/2014
5/14/2014
8/14/2014
11/14/2014
Date
MW-8

MW-9
Depth to Water Over Time




MW-10
Depth to Water Over Time
Groundwater Remediation System Activated (10/8/13)
Depth to Water (feet)
0.00
20.00
40.00
60.00
80.00
100.00
120.00
140.00
160.00
180.00
7/20/2013
9/20/2013
11/20/2013
1/20/2014
3/20/2014
5/20/2014
7/20/2014
9/20/2014
11/20/2014
Date
MW-10

ATTACHMENT F

Groundwater Treatment System Laboratory Reports

Analytical Report for

AECOM

Certificate of Analysis No.: 14101407

Project Manager: John Canzeri
Project Name : 7 Eleven - 32785
Project Location: Hampstead MD
Project ID : 60144916

October 21, 2014

Phase Separation Science, Inc.
6630 Baltimore National Pike
Baltimore, MD 21228
Phone: (410) 747-8770
Fax: (410) 788-8723

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PHASE SEPARATION SCIENCE, INC.

October 21, 2014

John Canzeri
AECOM
430 National Business Parkway
Annapolis Junction, MD 20701

Reference: PSS Work Order(s) No: **14101407**
Project Name: 7 Eleven - 32785
Project Location: Hampstead MD
Project ID.: 60144916

Dear John Canzeri :

This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order(s) numbered **14101407**.

All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on November 18, 2014. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt , the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 5 years, after which time it will be disposed of without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Sincerely,

Dan Prucnal
Laboratory Manager

Sample Summary

Client Name: AECOM

Project Name: 7 Eleven - 32785

Work Order Number(s): 14101407

Project ID: 60144916

The following samples were received under chain of custody by Phase Separation Science (PSS) on 10/14/2014 at 11:58 am

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
14101407-001	A/S INF	GROUND WATER	10/13/14 15:31
14101407-002	A/S EFF	GROUND WATER	10/13/14 15:27
14101407-003	GAC-1 EFF	GROUND WATER	10/13/14 15:23

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

Notes:

1. The presence of a common laboratory contaminant such as methylene chloride may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. Unless otherwise noted in the case narrative, results are reported on a dry weight basis with the exception of pH, flashpoint, moisture, and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminates, and part 141.3, for the secondary drinking water contaminates.
5. Sample prepared under EPA 3550C with concentrations greater than 20 mg/Kg should employ the microtip extraction procedure if required to meet data quality objectives.
6. The analysis of acrolein by EPA 624 must be analyzed within three days of sampling unless pH is adjusted to 4-5 units [40 CFR part 136.3(e)].

Standard Flags/Abbreviations:

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
C Results Pending Final Confirmation.
E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
J The target analyte was positively identified below the reporting limit but greater than the LOD.
LOD Limit of Detection. An estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte and matrix specific.
ND Not Detected at or above the reporting limit.
RL PSS Reporting Limit.
U Not detected.

Certifications:

NELAP Certifications: PA 68-03330, VA 460156
State Certifications: MD 179, WV 303
Regulated Soil Permit: P330-12-00268
NSWC USCG Accepted Laboratory
LDBE MWAA LD1997-0041-2015

OFFICES:
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ROUTE 40 WEST
BALTIMORE, MD 21228
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800-932-9047
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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14101407

AECOM, Annapolis Junction, MD

October 21, 2014

Project Name: 7 Eleven - 32785
Project Location: Hampstead MD
Project ID: 60144916

Sample ID: A/S INF **Date/Time Sampled: 10/13/2014 15:31** **PSS Sample ID: 14101407-001**
Matrix: GROUND WATER **Date/Time Received: 10/14/2014 11:58**

Total Petroleum Hydrocarbons-GRO — Analytical Method: SW-846 8015C — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	10/14/14	10/14/14 15:49	1035

BTEX, Naphthalene + Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
tert-Butanol	ND	ug/L	20		1	10/16/14	10/16/14 15:16	1011
Methyl-t-Butyl Ether	**26**	ug/L	1.0		1	10/16/14	10/16/14 15:16	1011
Benzene	ND	ug/L	1.0		1	10/16/14	10/16/14 15:16	1011
Toluene	ND	ug/L	1.0		1	10/16/14	10/16/14 15:16	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	10/16/14	10/16/14 15:16	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	10/16/14	10/16/14 15:16	1011
Diisopropyl ether	ND	ug/L	10		1	10/16/14	10/16/14 15:16	1011
tert-Amyl methyl ether	ND	ug/L	10		1	10/16/14	10/16/14 15:16	1011
tert-Amyl alcohol	ND	ug/L	20		1	10/16/14	10/16/14 15:16	1011
Ethylbenzene	ND	ug/L	1.0		1	10/16/14	10/16/14 15:16	1011
m&p-Xylene	ND	ug/L	2.0		1	10/16/14	10/16/14 15:16	1011
o-Xylene	ND	ug/L	1.0		1	10/16/14	10/16/14 15:16	1011
Naphthalene	ND	ug/L	1.0		1	10/16/14	10/16/14 15:16	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14101407

AECOM, Annapolis Junction, MD

October 21, 2014

Project Name: 7 Eleven - 32785
Project Location: Hampstead MD
Project ID: 60144916

Sample ID: A/S EFF **Date/Time Sampled: 10/13/2014 15:27** **PSS Sample ID: 14101407-002**
Matrix: GROUND WATER **Date/Time Received: 10/14/2014 11:58**

Total Petroleum Hydrocarbons-GRO — Analytical Method: SW-846 8015C — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	10/14/14	10/14/14 16:15	1035

BTEX, Naphthalene + Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
tert-Butanol	ND	ug/L	20		1	10/16/14	10/16/14 15:44	1011
Methyl-t-Butyl Ether	ND	ug/L	1.0		1	10/16/14	10/16/14 15:44	1011
Benzene	ND	ug/L	1.0		1	10/16/14	10/16/14 15:44	1011
Toluene	ND	ug/L	1.0		1	10/16/14	10/16/14 15:44	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	10/16/14	10/16/14 15:44	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	10/16/14	10/16/14 15:44	1011
Diisopropyl ether	ND	ug/L	10		1	10/16/14	10/16/14 15:44	1011
tert-Amyl methyl ether	ND	ug/L	10		1	10/16/14	10/16/14 15:44	1011
tert-Amyl alcohol	ND	ug/L	20		1	10/16/14	10/16/14 15:44	1011
Ethylbenzene	ND	ug/L	1.0		1	10/16/14	10/16/14 15:44	1011
m&p-Xylene	ND	ug/L	2.0		1	10/16/14	10/16/14 15:44	1011
o-Xylene	ND	ug/L	1.0		1	10/16/14	10/16/14 15:44	1011
Naphthalene	ND	ug/L	1.0		1	10/16/14	10/16/14 15:44	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14101407

AECOM, Annapolis Junction, MD

October 21, 2014

Project Name: 7 Eleven - 32785
Project Location: Hampstead MD
Project ID: 60144916

Sample ID: GAC-1 EFF **Date/Time Sampled: 10/13/2014 15:23** **PSS Sample ID: 14101407-003**
Matrix: GROUND WATER **Date/Time Received: 10/14/2014 11:58**

Total Petroleum Hydrocarbons-GRO — Analytical Method: SW-846 8015C — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	10/14/14	10/14/14 16:40	1035

BTEX, Naphthalene + Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
tert-Butanol	ND	ug/L	20		1	10/16/14	10/16/14 16:12	1011
Methyl-t-Butyl Ether	ND	ug/L	1.0		1	10/16/14	10/16/14 16:12	1011
Benzene	ND	ug/L	1.0		1	10/16/14	10/16/14 16:12	1011
Toluene	ND	ug/L	1.0		1	10/16/14	10/16/14 16:12	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	10/16/14	10/16/14 16:12	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	10/16/14	10/16/14 16:12	1011
Diisopropyl ether	ND	ug/L	10		1	10/16/14	10/16/14 16:12	1011
tert-Amyl methyl ether	ND	ug/L	10		1	10/16/14	10/16/14 16:12	1011
tert-Amyl alcohol	ND	ug/L	20		1	10/16/14	10/16/14 16:12	1011
Ethylbenzene	ND	ug/L	1.0		1	10/16/14	10/16/14 16:12	1011
m&p-Xylene	ND	ug/L	2.0		1	10/16/14	10/16/14 16:12	1011
o-Xylene	ND	ug/L	1.0		1	10/16/14	10/16/14 16:12	1011
Naphthalene	ND	ug/L	1.0		1	10/16/14	10/16/14 16:12	1011

Case Narrative Summary

Client Name: AECOM

Project Name: 7 Eleven - 32785

Work Order Number(s): 14101407
Project ID: 60144916

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

The analyses of chlorine, pH, dissolved oxygen, temperature and sulfite for drinking water and non-potable samples tested for compliance have a maximum holding time of 15 minutes. As such, all laboratory analyses for these analytes exceed holding times.

Sample Receipt:

All sample receipt conditions were acceptable.

Analytical:

GC/MS Purgeable Aromatics

Batch: 117557
Laboratory control sample and/or laboratory control sample duplicate (LCS/LCSD) exceedances identified; see LCS summary form.

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.

Analytical Data Package Information Summary

Work Order(s): 14101407
Report Prepared For: AECOM, Annapolis Junction, MD
Project Name: 7 Eleven - gen'l
Project Manager: John Canzeri

Method	Client Sample Id	Analysis Type	Lab Sample Id	Analyst	Mtx	Prep Batch	Analytical Batch	Sampled	Prepared	Analyzed
SW-846 8015C	A/S INF	Initial	14101407-001	1035	W	52536	117494	10/13/2014	10/14/2014 15:49	10/14/2014 15:49
	A/S EFF	Initial	14101407-002	1035	W	52536	117494	10/13/2014	10/14/2014 16:15	10/14/2014 16:15
	GAC-1 EFF	Initial	14101407-003	1035	W	52536	117494	10/13/2014	10/14/2014 16:40	10/14/2014 16:40
	52536-2-BKS	BKS	52536-2-BKS	1035	W	52536	117494	--------	10/14/2014 09:04	10/14/2014 11:07
	52536-2-BLK	BLK	52536-2-BLK	1035	W	52536	117494	--------	10/14/2014 09:04	10/14/2014 10:37
	GAC-2 Final S	MS	14101405-001 S	1035	W	52536	117494	10/13/2014	10/14/2014 14:58	10/14/2014 18:21
	GAC-2 Final SD	MSD	14101405-001 SD	1035	W	52536	117494	10/13/2014	10/14/2014 14:58	10/14/2014 18:46
SW-846 8260 B	A/S INF	Initial	14101407-001	1011	W	52560	117557	10/13/2014	10/16/2014 09:15	10/16/2014 15:16
	A/S EFF	Initial	14101407-002	1011	W	52560	117557	10/13/2014	10/16/2014 09:15	10/16/2014 15:44
	GAC-1 EFF	Initial	14101407-003	1011	W	52560	117557	10/13/2014	10/16/2014 09:15	10/16/2014 16:12
	52560-1-BKS	BKS	52560-1-BKS	1011	W	52560	117557	--------	10/16/2014 09:15	10/16/2014 11:05
	52560-1-BLK	BLK	52560-1-BLK	1011	W	52560	117557	--------	10/16/2014 09:15	10/16/2014 12:00
	LGAC-2 Final S	MS	14101408-001 S	1011	W	52560	117557	10/14/2014	10/16/2014 09:15	10/16/2014 13:53
	LGAC-2 Final SD	MSD	14101408-001 SD	1011	W	52560	117557	10/14/2014	10/16/2014 09:15	10/16/2014 14:21

PHASE SEPARATION SCIENCE, INC.

QC Summary 14101407

AECOM
7 Eleven - 32785

Analytical Method: SW-846 8015C Prep Method: SW5030B
Seq Number: 117494 Matrix: Ground Water Date Prep: 10/14/2014
PSS Sample ID: 14101407-001

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	95		65-111	%	10/14/14 15:49

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 117557 Matrix: Ground Water Date Prep: 10/16/2014
PSS Sample ID: 14101407-001

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	100		81-133	%	10/16/14 15:16
Dibromofluoromethane	97		84-110	%	10/16/14 15:16
Toluene-D8	99		94-109	%	10/16/14 15:16

Analytical Method: SW-846 8015C Prep Method: SW5030B
Seq Number: 117494 Matrix: Ground Water Date Prep: 10/14/2014
PSS Sample ID: 14101407-002

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	96		65-111	%	10/14/14 16:15

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 117557 Matrix: Ground Water Date Prep: 10/16/2014
PSS Sample ID: 14101407-002

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	99		81-133	%	10/16/14 15:44
Dibromofluoromethane	99		84-110	%	10/16/14 15:44
Toluene-D8	99		94-109	%	10/16/14 15:44

Analytical Method: SW-846 8015C Prep Method: SW5030B
Seq Number: 117494 Matrix: Ground Water Date Prep: 10/14/2014
PSS Sample ID: 14101407-003

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	101		65-111	%	10/14/14 16:40

PHASE SEPARATION SCIENCE, INC.

QC Summary 14101407

AECOM
7 Eleven - 32785

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 117557 Matrix: Ground Water Date Prep: 10/16/2014
PSS Sample ID: 14101407-003

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	100		81-133	%	10/16/14 16:12
Dibromofluoromethane	98		84-110	%	10/16/14 16:12
Toluene-D8	99		94-109	%	10/16/14 16:12

F = RPD exceeded the laboratory control limits
X = Recovery of MS, MSD or both outside of QC Criteria
H= Recovery of BS,BSD or both exceeded the laboratory control limits
L = Recovery of BS,BSD or both below the laboratory control limits

PHASE SEPARATION SCIENCE, INC.

QC Summary 14101407

AECOM
7 Eleven - 32785

Analytical Method: SW-846 8015C Prep Method: SW5030B
Seq Number: 117494 Matrix: Water Date Prep: 10/14/14
MB Sample Id: 52536-2-BLK LCS Sample Id: 52536-2-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
TPH-GRO (Gasoline Range Organics	<100	5000	4698	94	61-138	ug/L	10/14/14 11:07	

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	96		99		65-111	%	10/14/14 11:07

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 117557 Matrix: Water Date Prep: 10/16/14
MB Sample Id: 52560-1-BLK LCS Sample Id: 52560-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
tert-Butanol	<20.00	50.00	40.42	81	15-150	ug/L	10/16/14 11:05	
Methyl-t-Butyl Ether	<1.000	50.00	44.36	89	30-168	ug/L	10/16/14 11:05	
Benzene	<1.000	50.00	46.37	93	77-122	ug/L	10/16/14 11:05	
Toluene	<1.000	50.00	48.47	97	77-123	ug/L	10/16/14 11:05	
tert-Amyl ethyl ether	<10.00	50.00	23.47	47	60-121	ug/L	10/16/14 11:05	L
tert-Butyl ethyl ether	<10.00	50.00	32.23	64	62-137	ug/L	10/16/14 11:05	
Diisopropyl ether	<10.00	50.00	53.86	108	48-146	ug/L	10/16/14 11:05	
tert-Amyl methyl ether	<10.00	50.00	30.51	61	61-129	ug/L	10/16/14 11:05	
tert-Amyl alcohol	<20.00	50.00	29.49	59	27-139	ug/L	10/16/14 11:05	
Ethylbenzene	<1.000	50.00	47.14	94	79-122	ug/L	10/16/14 11:05	
m&p-Xylene	<2.000	100	97.15	97	78-119	ug/L	10/16/14 11:05	
o-Xylene	<1.000	50.00	48.62	97	79-123	ug/L	10/16/14 11:05	
Naphthalene	<1.000	50.00	49.04	98	46-154	ug/L	10/16/14 11:05	

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	101		91		81-133	%	10/16/14 11:05
Dibromofluoromethane	98		100		84-110	%	10/16/14 11:05
Toluene-D8	99		101		94-109	%	10/16/14 11:05

F = RPD exceeded the laboratory control limits
X = Recovery of MS, MSD or both outside of QC Criteria
H= Recovery of BS,BSD or both exceeded the laboratory control limits
L = Recovery of BS,BSD or both below the laboratory control limits

SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

PHASE SEPARATION SCIENCE, INC.

www.phaseonline.com
email: info@phaseonline.com

(1)

*CLIENT: AECOM *OFFICE LOC. Beltsville MD

*PROJECT MGR: J. Canzeri *PHONE NO.: (443) 812 9318

EMAIL: FAX NO.: ( )

*PROJECT NAME: 7-11 Store 32785 PROJECT NO. 60144916

SITE LOCATION: Hampstead MD P.O. NO.: 45814ACM

SAMPLER(S): Mike Parsons DW CERT NO.:

PSS Work Order #: 1410 1407 PAGE 1 OF 1

Matrix Codes: SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil L=Liquid SOL=Solid A=Air WI=Wipe

(2)

LAB NO.	*SAMPLE IDENTIFICATION	*DATE (SAMPLED)	*TIME (SAMPLED)	MATRIX (See Codes)	No. CONTAINERS	SAMPLE TYPE C = COMP G = GRAB	BTEX + Oxy 8260	Naphthalene	TPH GRO 8015	REMARKS
						Preservatives Used	HCl	HCl	HCl	
	A/S INF	10/13/14	1531	GW	6	G	✓	✓	✓	
	A/S EFF	)	1527	)	6	)	)	)	)	
	GAC-1 EFF	)	1523	)	6	)	)	)	)	

(5)

Relinquished By: (1)	Date	Time	Received By:
(Parsons)	10/14/14	1558	S Rivera
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

(4)

*Requested TAT (One TAT per COC): ☑ 5-Day ☐ 3-Day ☐ 2-Day ☐ Next Day ☐ Emergency ☐ Other

Data Deliverables Required: COA ☑ QC SUMM ☐ CLP LIKE ☐ OTHER ____

Special Instructions:

DW COMPLIANCE? YES ☐

EDD FORMAT TYPE: AECOM

STATE RESULTS REPORTED TO: MD ☑ DE ☐ PA ☐ VA ☐ WV ☐ OTHER ____

# of Coolers: 1

Custody Seal: ABSENT

Ice Present: PRESENT Temp: 3°C

Shipping Carrier: CLIENT

6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723

The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary. * = REQUIRED

Phase Separation Science, Inc

Sample Receipt Checklist

Work Order #	14101407	**Received By**	Shirley Rivera
Client Name	AECOM	**Date Received**	10/14/2014 11:58:00 AM
Project Name	7 Eleven - 32785	**Delivered By**	Client
Project Number	60144916	**Tracking No**	Not Applicable
Disposal Date	11/18/2014	**Logged In By**	Lynn Jackson

Shipping Container(s)

No. of Coolers 1

		Ice	Present
Custody Seal(s) Intact?	N/A	Temp (deg C)	3
Seal(s) Signed / Dated?	N/A	Temp Blank Present	No

Documentation

		Sampler Name	Mike Parsons
COC agrees with sample labels?	Yes	MD DW Cert. No.	N/A
Chain of Custody	Yes		

Sample Container

		Custody Seal(s) Intact?	Not Applicable
Appropriate for Specified Analysis?	Yes	Seal(s) Signed / Dated	Not Applicable
Intact?	Yes		
Labeled and Labels Legible?	Yes		

Total No. of Samples Received 3

Total No. of Containers Received 18

Preservation

Metals	(pH<2)	N/A
Cyanides	(pH>12)	N/A
Sulfide	(pH>9)	N/A
TOC, COD, Phenols	(pH<2)	N/A
TOX, TKN, NH3, Total Phos	(pH<2)	N/A
VOC, BTEX (VOA Vials Rcvd Preserved)	(pH<2)	Yes
Do VOA vials have zero headspace?		Yes
624 VOC (Rcvd at least one unpreserved VOA vial)		N/A

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling. Samples which require thermal preservation shall be considered acceptable when received at a temperature above freezing to 6°C. Samples that are hand delivered on the day that they are collected may not meet these criteria but shall be considered acceptable if there is evidence that the chilling process has begun such as arrival on ice.

Samples Inspected/Checklist Completed By: N L Jackson — Lynn Jackson — Date: 10/14/2014

PM Review and Approval: Amy Friedlander — Amy Friedlander — Date: 10/14/2014

Analytical Report for

AECOM

Certificate of Analysis No.: 14101405

Project Manager: John Canzeri
Project Name : 7 Eleven - 32785
Project Location: Hampstead MD
Project ID : 60144916

October 21, 2014

Phase Separation Science, Inc.
6630 Baltimore National Pike
Baltimore, MD 21228
Phone: (410) 747-8770
Fax: (410) 788-8723

OFFICES:
6630 BALTIMORE NATIONAL PIKE
ROUTE 40 WEST
BALTIMORE, MD 21228
410-747-8770
800-932-9047
FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.

October 21, 2014

John Canzeri
AECOM
430 National Business Parkway
Annapolis Junction, MD 20701

Reference: PSS Work Order(s) No: **14101405**
Project Name: 7 Eleven - 32785
Project Location: Hampstead MD
Project ID.: 60144916

Dear John Canzeri :

This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order(s) numbered **14101405**.

All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on November 18, 2014. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt , the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 5 years, after which time it will be disposed of without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Sincerely,

Dan Prucnal
Laboratory Manager

Sample Summary

Client Name: AECOM

Project Name: 7 Eleven - 32785

Work Order Number(s): 14101405

Project ID: 60144916

The following samples were received under chain of custody by Phase Separation Science (PSS) on 10/14/2014 at 11:58 am

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
14101405-001	GAC-2 Final	GROUND WATER	10/13/14 15:20

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

Notes:

1. The presence of a common laboratory contaminant such as methylene chloride may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. Unless otherwise noted in the case narrative, results are reported on a dry weight basis with the exception of pH, flashpoint, moisture, and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminates, and part 141.3, for the secondary drinking water contaminates.
5. Sample prepared under EPA 3550C with concentrations greater than 20 mg/Kg should employ the microtip extraction procedure if required to meet data quality objectives.
6. The analysis of acrolein by EPA 624 must be analyzed within three days of sampling unless pH is adjusted to 4-5 units [40 CFR part 136.3(e)].

Standard Flags/Abbreviations:

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
C Results Pending Final Confirmation.
E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
J The target analyte was positively identified below the reporting limit but greater than the LOD.
LOD Limit of Detection. An estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte and matrix specific.
ND Not Detected at or above the reporting limit.
RL PSS Reporting Limit.
U Not detected.

Certifications:

NELAP Certifications: PA 68-03330, VA 460156
State Certifications: MD 179, WV 303
Regulated Soil Permit: P330-12-00268
NSWC USCG Accepted Laboratory
LDBE MWAA LD1997-0041-2015

OFFICES:
6630 BALTIMORE NATIONAL PIKE
ROUTE 40 WEST
BALTIMORE, MD 21228
410-747-8770
800-932-9047
FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14101405

AECOM, Annapolis Junction, MD

October 21, 2014

Project Name: 7 Eleven - 32785
Project Location: Hampstead MD
Project ID: 60144916

Sample ID: GAC-2 Final **Date/Time Sampled: 10/13/2014 15:20** **PSS Sample ID: 14101405-001**
Matrix: GROUND WATER **Date/Time Received: 10/14/2014 11:58**

Total Petroleum Hydrocarbons-GRO — Analytical Method: SW-846 8015C — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	10/14/14	10/14/14 14:58	1035

BTEX, Naphthalene + Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
tert-Butanol	ND	ug/L	20		1	10/15/14	10/15/14 18:26	1011
Methyl-t-Butyl Ether	ND	ug/L	1.0		1	10/15/14	10/15/14 18:26	1011
Benzene	ND	ug/L	1.0		1	10/15/14	10/15/14 18:26	1011
Toluene	ND	ug/L	1.0		1	10/15/14	10/15/14 18:26	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	10/15/14	10/15/14 18:26	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	10/15/14	10/15/14 18:26	1011
Diisopropyl ether	ND	ug/L	10		1	10/15/14	10/15/14 18:26	1011
tert-Amyl methyl ether	ND	ug/L	10		1	10/15/14	10/15/14 18:26	1011
tert-Amyl alcohol	ND	ug/L	20		1	10/15/14	10/15/14 18:26	1011
Ethylbenzene	ND	ug/L	1.0		1	10/15/14	10/15/14 18:26	1011
m&p-Xylene	ND	ug/L	2.0		1	10/15/14	10/15/14 18:26	1011
o-Xylene	ND	ug/L	1.0		1	10/15/14	10/15/14 18:26	1011
Naphthalene	ND	ug/L	1.0		1	10/15/14	10/15/14 18:26	1011

Case Narrative Summary

Client Name: AECOM

Project Name: 7 Eleven - 32785

Work Order Number(s): 14101405
Project ID: 60144916

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

The analyses of chlorine, pH, dissolved oxygen, temperature and sulfite for drinking water and non-potable samples tested for compliance have a maximum holding time of 15 minutes. As such, all laboratory analyses for these analytes exceed holding times.

Sample Receipt:

All sample receipt conditions were acceptable.

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.

Analytical Data Package Information Summary

Work Order(s): 14101405
Report Prepared For: AECOM, Annapolis Junction, MD
Project Name: 7 Eleven - gen'l
Project Manager: John Canzeri

Method	Client Sample Id	Analysis Type	Lab Sample Id	Analyst	Mtx	Prep Batch	Analytical Batch	Sampled	Prepared	Analyzed
SW-846 8015C	GAC-2 Final	Initial	14101405-001	1035	W	52536	117494	10/13/2014	10/14/2014 14:58	10/14/2014 14:58
	52536-2-BKS	BKS	52536-2-BKS	1035	W	52536	117494	--------	10/14/2014 09:04	10/14/2014 11:07
	52536-2-BLK	BLK	52536-2-BLK	1035	W	52536	117494	--------	10/14/2014 09:04	10/14/2014 10:37
	GAC-2 Final S	MS	14101405-001 S	1035	W	52536	117494	10/13/2014	10/14/2014 14:58	10/14/2014 18:21
	GAC-2 Final SD	MSD	14101405-001 SD	1035	W	52536	117494	10/13/2014	10/14/2014 14:58	10/14/2014 18:46
SW-846 8260 B	GAC-2 Final	Initial	14101405-001	1011	W	52551	117525	10/13/2014	10/15/2014 09:14	10/15/2014 18:26
	52551-1-BKS	BKS	52551-1-BKS	1011	W	52551	117525	--------	10/15/2014 09:14	10/15/2014 10:47
	52551-1-BLK	BLK	52551-1-BLK	1011	W	52551	117525	--------	10/15/2014 09:14	10/15/2014 11:57
	GAC-2 Final S	MS	14101405-001 S	1011	W	52551	117525	10/13/2014	10/15/2014 09:14	10/15/2014 19:37
	GAC-2 Final SD	MSD	14101405-001 SD	1011	W	52551	117525	10/13/2014	10/15/2014 09:14	10/15/2014 20:12

PHASE SEPARATION SCIENCE, INC.

QC Summary 14101405

AECOM
7 Eleven - 32785

Analytical Method: SW-846 8015C Prep Method: SW5030B
Seq Number: 117494 Matrix: Ground Water Date Prep: 10/14/2014
PSS Sample ID: 14101405-001

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	94		65-111	%	10/14/14 14:58

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 117525 Matrix: Ground Water Date Prep: 10/15/2014
PSS Sample ID: 14101405-001

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	103		81-133	%	10/15/14 18:26
Dibromofluoromethane	99		84-110	%	10/15/14 18:26
Toluene-D8	100		94-109	%	10/15/14 18:26

F = RPD exceeded the laboratory control limits
X = Recovery of MS, MSD or both outside of QC Criteria
H= Recovery of BS,BSD or both exceeded the laboratory control limits
L = Recovery of BS,BSD or both below the laboratory control limits

PHASE SEPARATION SCIENCE, INC.

QC Summary 14101405

AECOM
7 Eleven - 32785

Analytical Method: SW-846 8015C Prep Method: SW5030B
Seq Number: 117494 Matrix: Water Date Prep: 10/14/14
MB Sample Id: 52536-2-BLK LCS Sample Id: 52536-2-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
TPH-GRO (Gasoline Range Organic:	<100	5000	4698	94	61-138	ug/L	10/14/14 11:07	

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	96		99		65-111	%	10/14/14 11:07

Analytical Method: SW-846 8015C Prep Method: SW5030B
Seq Number: 117494 Matrix: Ground Water Date Prep: 10/14/14
Parent Sample Id: 14101405-001 MS Sample Id: 14101405-001 S MSD Sample Id: 14101405-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
TPH-GRO (Gasoline Range Organic:	<100	5000	4343	87	4187	84	58-136	4	25	ug/L	10/14/14 18:21	

Surrogate	MS Result	MS Flag	MSD Result	MSD Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	95		95		65-111	%	10/14/14 18:21

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 117525 Matrix: Water Date Prep: 10/15/14
MB Sample Id: 52551-1-BLK LCS Sample Id: 52551-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
tert-Butanol	<20.00	50.00	31.95	64	15-150	ug/L	10/15/14 10:47	
Methyl-t-Butyl Ether	<1.000	50.00	40.49	81	30-168	ug/L	10/15/14 10:47	
Benzene	<1.000	50.00	45.22	90	77-122	ug/L	10/15/14 10:47	
Toluene	<1.000	50.00	42.60	85	77-123	ug/L	10/15/14 10:47	
tert-Amyl ethyl ether	<10.00	50.00	29.19	58	60-121	ug/L	10/15/14 10:47	L
tert-Butyl ethyl ether	<10.00	50.00	38.16	76	62-137	ug/L	10/15/14 10:47	
Diisopropyl ether	<10.00	50.00	48.49	97	48-146	ug/L	10/15/14 10:47	
tert-Amyl methyl ether	<10.00	50.00	32.49	65	61-129	ug/L	10/15/14 10:47	
tert-Amyl alcohol	<20.00	50.00	26.65	53	27-139	ug/L	10/15/14 10:47	
Ethylbenzene	<1.000	50.00	45.21	90	79-122	ug/L	10/15/14 10:47	
m&p-Xylene	<2.000	100	85.91	86	78-119	ug/L	10/15/14 10:47	
o-Xylene	<1.000	50.00	46.63	93	79-123	ug/L	10/15/14 10:47	
Naphthalene	<1.000	50.00	32.52	65	46-154	ug/L	10/15/14 10:47	

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	107		104		81-133	%	10/15/14 10:47
Dibromofluoromethane	107		105		84-110	%	10/15/14 10:47
Toluene-D8	97		101		94-109	%	10/15/14 10:47

PHASE SEPARATION SCIENCE, INC.

QC Summary 14101405

AECOM
7 Eleven - 32785

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 117525 Matrix: Ground Water Date Prep: 10/15/14
Parent Sample Id: 14101405-001 MS Sample Id: 14101405-001 S MSD Sample Id: 14101405-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
tert-Butanol	<20.00	50.00	38.54	77	40.70	81	1-183	5	25	ug/L	10/15/14 19:37	
Methyl-t-Butyl Ether	<1.000	50.00	43.76	88	44.52	89	22-182	2	25	ug/L	10/15/14 19:37	
Benzene	<1.000	50.00	45.42	91	43.57	87	75-132	4	25	ug/L	10/15/14 19:37	
Toluene	<1.000	50.00	42.57	85	41.38	83	74-132	3	25	ug/L	10/15/14 19:37	
tert-Amyl ethyl ether	<10.00	50.00	28.91	58	27.69	55	48-129	4	25	ug/L	10/15/14 19:37	
tert-Butyl ethyl ether	<10.00	50.00	40.98	82	39.46	79	55-141	4	25	ug/L	10/15/14 19:37	
Diisopropyl ether	<10.00	50.00	51.70	103	48.83	98	49-150	6	25	ug/L	10/15/14 19:37	
tert-Amyl methyl ether	<10.00	50.00	33.68	67	32.83	66	50-139	3	25	ug/L	10/15/14 19:37	
tert-Amyl alcohol	<20.00	50.00	23.17	46	27.25	55	5-149	16	25	ug/L	10/15/14 19:37	
Ethylbenzene	<1.000	50.00	44.74	89	42.25	85	74-129	6	25	ug/L	10/15/14 19:37	
m&p-Xylene	<2.000	100	86.58	87	81.75	82	78-119	6	25	ug/L	10/15/14 19:37	
o-Xylene	<1.000	50.00	42.88	86	41.42	83	80-123	3	25	ug/L	10/15/14 19:37	
Naphthalene	<1.000	50.00	33.95	68	33.92	68	7-137	0	25	ug/L	10/15/14 19:37	

Surrogate	MS Result	MS Flag	MSD Result	MSD Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	99		106		81-133	%	10/15/14 19:37
Dibromofluoromethane	107		107		84-110	%	10/15/14 19:37
Toluene-D8	99		102		94-109	%	10/15/14 19:37

F = RPD exceeded the laboratory control limits
X = Recovery of MS, MSD or both outside of QC Criteria
H= Recovery of BS,BSD or both exceeded the laboratory control limits
L = Recovery of BS,BSD or both below the laboratory control limits

SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

PHASE SEPARATION SCIENCE, INC.

www.phaseonline.com
email: info@phaseonline.com

(1)

*CLIENT: AECOM *OFFICE LOC. Beltsville, MD

*PROJECT MGR: J. Canzeri *PHONE NO.: (248) 852 9318

EMAIL: FAX NO.: ( )

*PROJECT NAME: 7-11 Store 32785 PROJECT NO. 60144916

SITE LOCATION: Hampstead, MD P.O. NO.: 45814 ACM

SAMPLER(S): Mike Parsons DW CERT NO.:

PSS Work Order #: 1401405 PAGE 1 OF 1

Matrix Codes: SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil L=Liquid SOL=Solid A=Air WI=Wipe

(2)

LAB NO.	*SAMPLE IDENTIFICATION	*DATE (SAMPLED)	*TIME (SAMPLED)	MATRIX (See Codes)	No. CONTAINERS	SAMPLE TYPE C = COMP G = GRAB	Preservatives Used: HCl	HCl	HCl										REMARKS
							Analysis/ Method Required (3) *	BTEX + oxy 8260	Naphthalene	TPH-GRO 8015									
	GAC-2 FINAL	10/13/14	1520	GW	6	G	✓	✓	✓										

(5)

Relinquished By: (1)	Date	Time	Received By:
M. Parsons	10/14/14	1158	D. Rivera
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

(4)

*Requested TAT (One TAT per COC): ☑ 5-Day ☐ 3-Day ☐ 2-Day ☐ Next Day ☐ Emergency ☐ Other

Data Deliverables Required: COA ☑ QC SUMM ☐ CLP LIKE ☐ OTHER ____

Special Instructions:

DW COMPLIANCE? YES ☐

EDD FORMAT TYPE: AECOM

STATE RESULTS REPORTED TO: MD ☑ DE ☐ PA ☐ VA ☐ WV ☐ OTHER ____

# of Coolers: 1

Custody Seal: ABSENT

Ice Present: PRESENT Temp: 3°C

Shipping Carrier: CLIENT

6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723

The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary. * = REQUIRED

Phase Separation Science, Inc

Sample Receipt Checklist

Work Order #	14101405	**Received By**	Shirley Rivera
Client Name	AECOM	**Date Received**	10/14/2014 11:58:00 AM
Project Name	7 Eleven - 32785	**Delivered By**	Client
Project Number	60144916	**Tracking No**	Not Applicable
Disposal Date	11/18/2014	**Logged In By**	Lynn Jackson

Shipping Container(s)

No. of Coolers 1

		Ice	Present
Custody Seal(s) Intact?	N/A	Temp (deg C)	3
Seal(s) Signed / Dated?	N/A	Temp Blank Present	No

Documentation

		Sampler Name	Mike Parsons
COC agrees with sample labels?	Yes	MD DW Cert. No.	N/A
Chain of Custody	Yes		

Sample Container

		Custody Seal(s) Intact?	Not Applicable
Appropriate for Specified Analysis?	Yes	Seal(s) Signed / Dated	Not Applicable
Intact?	Yes		
Labeled and Labels Legible?	Yes		

Total No. of Samples Received 1

Total No. of Containers Received 6

Preservation

Metals	(pH<2)	N/A
Cyanides	(pH>12)	N/A
Sulfide	(pH>9)	N/A
TOC, COD, Phenols	(pH<2)	N/A
TOX, TKN, NH3, Total Phos	(pH<2)	N/A
VOC, BTEX (VOA Vials Rcvd Preserved)	(pH<2)	Yes
Do VOA vials have zero headspace?		Yes
624 VOC (Rcvd at least one unpreserved VOA vial)		N/A

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling. Samples which require thermal preservation shall be considered acceptable when received at a temperature above freezing to 6°C. Samples that are hand delivered on the day that they are collected may not meet these criteria but shall be considered acceptable if there is evidence that the chilling process has begun such as arrival on ice.

Samples Inspected/Checklist Completed By: N L Jackson — Lynn Jackson — Date: 10/14/2014

PM Review and Approval: Amy Friedlander — Amy Friedlander — Date: 10/14/2014

Analytical Report for

AECOM

Certificate of Analysis No.: 14103119

Project Manager: John Canzeri
Project Name : 7-11 Store #32785
Project Location: Hampstead
Project ID : 60144916

November 7, 2014

Phase Separation Science, Inc.
6630 Baltimore National Pike
Baltimore, MD 21228
Phone: (410) 747-8770
Fax: (410) 788-8723

OFFICES:
6630 BALTIMORE NATIONAL PIKE
ROUTE 40 WEST
BALTIMORE, MD 21228
410-747-8770
800-932-9047
FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.

November 7, 2014

John Canzeri
AECOM
430 National Business Parkway
Annapolis Junction, MD 20701

Reference: PSS Work Order(s) No: **14103119**
Project Name: 7-11 Store #32785
Project Location: Hampstead
Project ID.: 60144916

Dear John Canzeri :

This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order(s) numbered **14103119**.

All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on December 5, 2014. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt , the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 5 years, after which time it will be disposed of without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Sincerely,

Dan Prucnal
Laboratory Manager

Sample Summary

Client Name: AECOM

Project Name: 7-11 Store #32785

Work Order Number(s): 14103119

Project ID: 60144916

The following samples were received under chain of custody by Phase Separation Science (PSS) on 10/31/2014 at 01:32 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
14103119-001	GAC-2 Final	GROUND WATER	10/31/14 10:09

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

Notes:

1. The presence of a common laboratory contaminant such as methylene chloride may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. Unless otherwise noted in the case narrative, results are reported on a dry weight basis with the exception of pH, flashpoint, moisture, and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminates, and part 141.3, for the secondary drinking water contaminates.
5. Sample prepared under EPA 3550C with concentrations greater than 20 mg/Kg should employ the microtip extraction procedure if required to meet data quality objectives.
6. The analysis of acrolein by EPA 624 must be analyzed within three days of sampling unless pH is adjusted to 4-5 units [40 CFR part 136.3(e)].

Standard Flags/Abbreviations:

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
C Results Pending Final Confirmation.
E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
J The target analyte was positively identified below the reporting limit but greater than the LOD.
LOD Limit of Detection. An estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte and matrix specific.
ND Not Detected at or above the reporting limit.
RL PSS Reporting Limit.
U Not detected.

Certifications:

NELAP Certifications: PA 68-03330, VA 460156
State Certifications: MD 179, WV 303
Regulated Soil Permit: P330-12-00268
NSWC USCG Accepted Laboratory
LDBE MWAA LD1997-0041-2015

OFFICES:
6630 BALTIMORE NATIONAL PIKE
ROUTE 40 WEST
BALTIMORE, MD 21228
410-747-8770
800-932-9047
FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14103119

AECOM, Annapolis Junction, MD

November 7, 2014

Project Name: 7-11 Store #32785
Project Location: Hampstead
Project ID: 60144916

Sample ID: GAC-2 Final **Date/Time Sampled: 10/31/2014 10:09** **PSS Sample ID: 14103119-001**
Matrix: GROUND WATER **Date/Time Received: 10/31/2014 13:32**

Total Petroleum Hydrocarbons-GRO — Analytical Method: SW-846 8015C — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	11/03/14	11/03/14 10:57	1035

BTEX, Naphthalene + Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
tert-Butanol	ND	ug/L	20		1	11/05/14	11/05/14 18:42	1011
Methyl-t-Butyl Ether	ND	ug/L	1.0		1	11/05/14	11/05/14 18:42	1011
Benzene	ND	ug/L	1.0		1	11/05/14	11/05/14 18:42	1011
Toluene	ND	ug/L	1.0		1	11/05/14	11/05/14 18:42	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	11/05/14	11/05/14 18:42	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	11/05/14	11/05/14 18:42	1011
Diisopropyl ether	ND	ug/L	10		1	11/05/14	11/05/14 18:42	1011
tert-Amyl methyl ether	ND	ug/L	10		1	11/05/14	11/05/14 18:42	1011
tert-Amyl alcohol	ND	ug/L	20		1	11/05/14	11/05/14 18:42	1011
Ethylbenzene	ND	ug/L	1.0		1	11/05/14	11/05/14 18:42	1011
m&p-Xylene	ND	ug/L	2.0		1	11/05/14	11/05/14 18:42	1011
o-Xylene	ND	ug/L	1.0		1	11/05/14	11/05/14 18:42	1011
Naphthalene	ND	ug/L	1.0		1	11/05/14	11/05/14 18:42	1011

Case Narrative Summary

Client Name: AECOM

Project Name: 7-11 Store #32785

Work Order Number(s): 14103119
Project ID: 60144916

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

The analyses of chlorine, pH, dissolved oxygen, temperature and sulfite for drinking water and non-potable samples tested for compliance have a maximum holding time of 15 minutes. As such, all laboratory analyses for these analytes exceed holding times.

Sample Receipt:

All sample receipt conditions were acceptable.

Analytical:

Total Petroleum Hydrocarbons-GRO

Batch: 117949

Surrogate exceedances identified; see surrogate summary form.

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.

Analytical Data Package Information Summary

Work Order(s): 14103119
Report Prepared For: AECOM, Annapolis Junction, MD
Project Name: 7 Eleven - gen'l
Project Manager: John Canzeri

Method	Client Sample Id	Analysis Type	Lab Sample Id	Analyst	Mtx	Prep Batch	Analytical Batch	Sampled	Prepared	Analyzed
SW-846 8015C	GAC-2 Final	Initial	14103119-001	1035	W	52793	117949	10/31/2014	11/03/2014 09:08	11/03/2014 10:57
	52793-2-BKS	BKS	52793-2-BKS	1035	W	52793	117949	--------	11/03/2014 09:08	11/03/2014 12:13
	52793-2-BLK	BLK	52793-2-BLK	1035	W	52793	117949	--------	11/03/2014 09:08	11/03/2014 10:31
	GAC-2 Final S	MS	14103119-001 S	1035	W	52793	117949	10/31/2014	11/03/2014 09:08	11/03/2014 12:07
	GAC-2 Final SD	MSD	14103119-001 SD	1035	W	52793	117949	10/31/2014	11/03/2014 09:08	11/03/2014 12:33
SW-846 8260 B	GAC-2 Final	Initial	14103119-001	1011	W	52853	118067	10/31/2014	11/05/2014 08:23	11/05/2014 18:42
	52853-1-BKS	BKS	52853-1-BKS	1011	W	52853	118067	--------	11/05/2014 08:23	11/05/2014 09:54
	52853-1-BLK	BLK	52853-1-BLK	1011	W	52853	118067	--------	11/05/2014 08:23	11/05/2014 11:04
	Trip Blank S	MS	14103002-005 S	1011	W	52853	118067	10/29/2014	11/05/2014 08:23	11/05/2014 15:47
	Trip Blank SD	MSD	14103002-005 SD	1011	W	52853	118067	10/29/2014	11/05/2014 08:23	11/05/2014 16:22

PHASE SEPARATION SCIENCE, INC.

QC Summary 14103119

AECOM
7-11 Store #32785

Analytical Method: SW-846 8015C Prep Method: SW5030B
Seq Number: 117949 Matrix: Ground Water Date Prep: 11/03/2014
PSS Sample ID: 14103119-001

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	96		65-111	%	11/03/14 10:57

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 118067 Matrix: Ground Water Date Prep: 11/05/2014
PSS Sample ID: 14103119-001

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	106		81-133	%	11/05/14 18:42
Dibromofluoromethane	97		84-110	%	11/05/14 18:42
Toluene-D8	100		94-109	%	11/05/14 18:42

F = RPD exceeded the laboratory control limits
X = Recovery of MS, MSD or both outside of QC Criteria
H= Recovery of BS,BSD or both exceeded the laboratory control limits
L = Recovery of BS,BSD or both below the laboratory control limits

PHASE SEPARATION SCIENCE, INC.

QC Summary 14103119

AECOM
7-11 Store #32785

Analytical Method: SW-846 8015C Prep Method: SW5030B
Seq Number: 117949 Matrix: Water Date Prep: 11/03/14
MB Sample Id: 52793-2-BLK LCS Sample Id: 52793-2-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
TPH-GRO (Gasoline Range Organic:	<100	5000	4760	95	61-138	ug/L	11/03/14 12:13	

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	95		104		65-111	%	11/03/14 12:13

Analytical Method: SW-846 8015C Prep Method: SW5030B
Seq Number: 117949 Matrix: Ground Water Date Prep: 11/03/14
Parent Sample Id: 14103119-001 MS Sample Id: 14103119-001 S MSD Sample Id: 14103119-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
TPH-GRO (Gasoline Range Organic:	<100	5000	5027	101	4426	89	58-136	13	25	ug/L	11/03/14 12:07	

Surrogate	MS Result	MS Flag	MSD Result	MSD Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	105		127	*	65-111	%	11/03/14 12:07

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 118067 Matrix: Water Date Prep: 11/05/14
MB Sample Id: 52853-1-BLK LCS Sample Id: 52853-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
tert-Butanol	<20.00	50.00	45.74	91	15-150	ug/L	11/05/14 09:54	
Methyl-t-Butyl Ether	<1.000	50.00	42.18	84	30-168	ug/L	11/05/14 09:54	
Benzene	<1.000	50.00	47.57	95	77-122	ug/L	11/05/14 09:54	
Toluene	<1.000	50.00	46.59	93	77-123	ug/L	11/05/14 09:54	
tert-Amyl ethyl ether	<10.00	50.00	46.23	92	60-121	ug/L	11/05/14 09:54	
tert-Butyl ethyl ether	<10.00	50.00	44.34	89	62-137	ug/L	11/05/14 09:54	
Diisopropyl ether	<10.00	50.00	48.39	97	48-146	ug/L	11/05/14 09:54	
tert-Amyl methyl ether	<10.00	50.00	44.13	88	61-129	ug/L	11/05/14 09:54	
tert-Amyl alcohol	<20.00	50.00	46.52	93	27-139	ug/L	11/05/14 09:54	
Ethylbenzene	<1.000	50.00	49.19	98	79-122	ug/L	11/05/14 09:54	
m&p-Xylene	<2.000	100	98.77	99	78-119	ug/L	11/05/14 09:54	
o-Xylene	<1.000	50.00	49.01	98	79-123	ug/L	11/05/14 09:54	
Naphthalene	<1.000	50.00	46.60	93	46-154	ug/L	11/05/14 09:54	

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	108		101		81-133	%	11/05/14 09:54
Dibromofluoromethane	98		98		84-110	%	11/05/14 09:54
Toluene-D8	99		99		94-109	%	11/05/14 09:54

F = RPD exceeded the laboratory control limits
X = Recovery of MS, MSD or both outside of QC Criteria
H= Recovery of BS,BSD or both exceeded the laboratory control limits

PHASE SEPARATION SCIENCE, INC.

QC Summary 14103119

AECOM
7-11 Store #32785

L = Recovery of BS,BSD or both below the laboratory control limits

SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

PHASE SEPARATION SCIENCE, INC.

www.phaseonline.com
email: info@phaseonline.com

(1)

*CLIENT: AECOM *OFFICE LOC. Beltsville, MD

*PROJECT MGR: J Canzeri *PHONE NO.: (410) 379 6900

EMAIL: FAX NO.: ( )

*PROJECT NAME: 7-11 Store # 32785 PROJECT NO. 60144916

SITE LOCATION: Hampstead P.O. NO.: 45814 ACM

SAMPLER(S): M. Parsons DW CERT NO.:

PSS Work Order #: 14103119 PAGE 1 OF 1

Matrix Codes: **SW**=Surface Wtr **DW**=Drinking Wtr **GW**=Ground Wtr **WW**=Waste Wtr **O**=Oil **S**=Soil **L**=Liquid **SOL**=Solid **A**=Air **WI**=Wipe

(2)

LAB NO.	*SAMPLE IDENTIFICATION	*DATE (SAMPLED)	*TIME (SAMPLED)	MATRIX (See Codes)	No. CONTAINERS	SAMPLE TYPE C = COMP G = GRAB	Preservatives Used: HCL	HCL	HCL									REMARKS
	(3) * Analysis/ Method Required						BTEX + MTBE 8260	Naphthalene	TPH GRO 8015									
1	GAC-2 FINAL	10/31/14	10:09	GW	6	G	✓	✓	✓									

(5)

Relinquished By: (1)	Date	Time	Received By:
M. Parsons (Parsons)	10-31-14	1332	G. Rivera
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

(4)

*Requested TAT (One TAT per COC): ☑ 5-Day ☐ 3-Day ☐ 2-Day ☐ Next Day ☐ Emergency ☐ Other

Data Deliverables Required: COA ☑ QC SUMM ☐ CLP LIKE ☐ OTHER ____

# of Coolers: 1

Custody Seal: PRESENT

Ice Present: PRESENT Temp: 2°C

Shipping Carrier: CLIENT

Special Instructions:

DW COMPLIANCE? YES ☐

EDD FORMAT TYPE: AECOM

STATE RESULTS REPORTED TO: MD ☑ DE ☐ PA ☐ VA ☐ WV ☐ OTHER ____

6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723

The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary. * = REQUIRED

Phase Separation Science, Inc

Sample Receipt Checklist

Work Order #	14103119	**Received By**	Shirley Rivera
Client Name	AECOM	**Date Received**	10/31/2014 01:32:00 PM
Project Name	7-11 Store #32785	**Delivered By**	Client
Project Number	60144916	**Tracking No**	Not Applicable
Disposal Date	12/05/2014	**Logged In By**	Lynn Jackson

Shipping Container(s)

No. of Coolers 1

		Ice	Present
Custody Seal(s) Intact?	N/A	Temp (deg C)	2
Seal(s) Signed / Dated?	N/A	Temp Blank Present	No

Documentation

		Sampler Name	Mike Parsons
COC agrees with sample labels?	Yes	MD DW Cert. No.	N/A
Chain of Custody	Yes		

Sample Container

		Custody Seal(s) Intact?	Not Applicable
Appropriate for Specified Analysis?	Yes	Seal(s) Signed / Dated	Not Applicable
Intact?	Yes		
Labeled and Labels Legible?	Yes		

Total No. of Samples Received 1

Total No. of Containers Received 6

Preservation

Metals	(pH<2)	N/A
Cyanides	(pH>12)	N/A
Sulfide	(pH>9)	N/A
TOC, COD, Phenols	(pH<2)	N/A
TOX, TKN, NH3, Total Phos	(pH<2)	N/A
VOC, BTEX (VOA Vials Rcvd Preserved)	(pH<2)	Yes
Do VOA vials have zero headspace?		Yes
624 VOC (Rcvd at least one unpreserved VOA vial)		N/A

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling. Samples which require thermal preservation shall be considered acceptable when received at a temperature above freezing to 6°C. Samples that are hand delivered on the day that they are collected may not meet these criteria but shall be considered acceptable if there is evidence that the chilling process has begun such as arrival on ice.

Samples Inspected/Checklist Completed By: N L Jackson — Lynn Jackson — Date: 10/31/2014

PM Review and Approval: Amy Friedlander — Amy Friedlander — Date: 10/31/2014

Analytical Report for

AECOM

Certificate of Analysis No.: 14111102

Project Manager: John Canzeri
Project Name : 7-11 Store #32785
Project Location: Hampstead, MD
Project ID : 60144916

November 18, 2014

Phase Separation Science, Inc.
6630 Baltimore National Pike
Baltimore, MD 21228
Phone: (410) 747-8770
Fax: (410) 788-8723

OFFICES:
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ROUTE 40 WEST
BALTIMORE, MD 21228
410-747-8770
800-932-9047
FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.

November 18, 2014

John Canzeri
AECOM
430 National Business Parkway
Annapolis Junction, MD 20701

Reference: PSS Work Order(s) No: **14111102**
Project Name: 7-11 Store #32785
Project Location: Hampstead, MD
Project ID.: 60144916

Dear John Canzeri :

This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order(s) numbered **14111102**.

All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on December 16, 2014. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt , the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 5 years, after which time it will be disposed of without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Sincerely,

Dan Prucnal
Laboratory Manager

Sample Summary

Client Name: AECOM

Project Name: 7-11 Store #32785

Work Order Number(s): 14111102

Project ID: 60144916

The following samples were received under chain of custody by Phase Separation Science (PSS) on 11/11/2014 at 07:50 am

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
14111102-001	A/S INF	GROUND WATER	11/10/14 12:40
14111102-002	A/S EFF	GROUND WATER	11/10/14 12:37
14111102-003	GAC-1 EFF	GROUND WATER	11/10/14 12:34

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

Notes:

1. The presence of a common laboratory contaminant such as methylene chloride may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. Unless otherwise noted in the case narrative, results are reported on a dry weight basis with the exception of pH, flashpoint, moisture, and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminates, and part 141.3, for the secondary drinking water contaminates.
5. Sample prepared under EPA 3550C with concentrations greater than 20 mg/Kg should employ the microtip extraction procedure if required to meet data quality objectives.
6. The analysis of acrolein by EPA 624 must be analyzed within three days of sampling unless pH is adjusted to 4-5 units [40 CFR part 136.3(e)].

Standard Flags/Abbreviations:

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
C Results Pending Final Confirmation.
E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
J The target analyte was positively identified below the reporting limit but greater than the LOD.
LOD Limit of Detection. An estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte and matrix specific.
ND Not Detected at or above the reporting limit.
RL PSS Reporting Limit.
U Not detected.

Certifications:

NELAP Certifications: PA 68-03330, VA 460156
State Certifications: MD 179, WV 303
Regulated Soil Permit: P330-12-00268
NSWC USCG Accepted Laboratory
LDBE MWAA LD1997-0041-2015

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BALTIMORE, MD 21228
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800-932-9047
FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14111102

AECOM, Annapolis Junction, MD

November 18, 2014

Project Name: 7-11 Store #32785
Project Location: Hampstead, MD
Project ID: 60144916

Sample ID: A/S INF **Date/Time Sampled: 11/10/2014 12:40** **PSS Sample ID: 14111102-001**
Matrix: GROUND WATER **Date/Time Received: 11/11/2014 07:50**

Total Petroleum Hydrocarbons-GRO — Analytical Method: SW-846 8015C — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	11/11/14	11/11/14 11:51	1035

BTEX, Naphthalene + Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
tert-Butanol	ND	ug/L	20		1	11/12/14	11/12/14 16:32	1011
Methyl-t-Butyl Ether	**26**	ug/L	1.0		1	11/12/14	11/12/14 16:32	1011
Benzene	ND	ug/L	1.0		1	11/12/14	11/12/14 16:32	1011
Toluene	ND	ug/L	1.0		1	11/12/14	11/12/14 16:32	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	11/12/14	11/12/14 16:32	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	11/12/14	11/12/14 16:32	1011
Diisopropyl ether	ND	ug/L	10		1	11/12/14	11/12/14 16:32	1011
tert-Amyl methyl ether	ND	ug/L	10		1	11/12/14	11/12/14 16:32	1011
tert-Amyl alcohol	ND	ug/L	20		1	11/12/14	11/12/14 16:32	1011
Ethylbenzene	ND	ug/L	1.0		1	11/12/14	11/12/14 16:32	1011
m&p-Xylene	ND	ug/L	2.0		1	11/12/14	11/12/14 16:32	1011
o-Xylene	ND	ug/L	1.0		1	11/12/14	11/12/14 16:32	1011
Naphthalene	ND	ug/L	1.0		1	11/12/14	11/12/14 16:32	1011

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800-932-9047
FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14111102

AECOM, Annapolis Junction, MD

November 18, 2014

Project Name: 7-11 Store #32785
Project Location: Hampstead, MD
Project ID: 60144916

Sample ID: A/S EFF **Date/Time Sampled: 11/10/2014 12:37** **PSS Sample ID: 14111102-002**
Matrix: GROUND WATER **Date/Time Received: 11/11/2014 07:50**

Total Petroleum Hydrocarbons-GRO — Analytical Method: SW-846 8015C — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	11/11/14	11/11/14 12:16	1035

BTEX, Naphthalene + Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
tert-Butanol	ND	ug/L	20		1	11/12/14	11/12/14 17:07	1011
Methyl-t-Butyl Ether	ND	ug/L	1.0		1	11/12/14	11/12/14 17:07	1011
Benzene	ND	ug/L	1.0		1	11/12/14	11/12/14 17:07	1011
Toluene	ND	ug/L	1.0		1	11/12/14	11/12/14 17:07	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	11/12/14	11/12/14 17:07	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	11/12/14	11/12/14 17:07	1011
Diisopropyl ether	ND	ug/L	10		1	11/12/14	11/12/14 17:07	1011
tert-Amyl methyl ether	ND	ug/L	10		1	11/12/14	11/12/14 17:07	1011
tert-Amyl alcohol	ND	ug/L	20		1	11/12/14	11/12/14 17:07	1011
Ethylbenzene	ND	ug/L	1.0		1	11/12/14	11/12/14 17:07	1011
m&p-Xylene	ND	ug/L	2.0		1	11/12/14	11/12/14 17:07	1011
o-Xylene	ND	ug/L	1.0		1	11/12/14	11/12/14 17:07	1011
Naphthalene	ND	ug/L	1.0		1	11/12/14	11/12/14 17:07	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14111102

AECOM, Annapolis Junction, MD

November 18, 2014

Project Name: 7-11 Store #32785
Project Location: Hampstead, MD
Project ID: 60144916

Sample ID: GAC-1 EFF **Date/Time Sampled: 11/10/2014 12:34** **PSS Sample ID: 14111102-003**
Matrix: GROUND WATER **Date/Time Received: 11/11/2014 07:50**

Total Petroleum Hydrocarbons-GRO — Analytical Method: SW-846 8015C — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	11/11/14	11/11/14 12:41	1035

BTEX, Naphthalene + Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
tert-Butanol	ND	ug/L	20		1	11/12/14	11/12/14 17:42	1011
Methyl-t-Butyl Ether	ND	ug/L	1.0		1	11/12/14	11/12/14 17:42	1011
Benzene	ND	ug/L	1.0		1	11/12/14	11/12/14 17:42	1011
Toluene	ND	ug/L	1.0		1	11/12/14	11/12/14 17:42	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	11/12/14	11/12/14 17:42	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	11/12/14	11/12/14 17:42	1011
Diisopropyl ether	ND	ug/L	10		1	11/12/14	11/12/14 17:42	1011
tert-Amyl methyl ether	ND	ug/L	10		1	11/12/14	11/12/14 17:42	1011
tert-Amyl alcohol	ND	ug/L	20		1	11/12/14	11/12/14 17:42	1011
Ethylbenzene	ND	ug/L	1.0		1	11/12/14	11/12/14 17:42	1011
m&p-Xylene	ND	ug/L	2.0		1	11/12/14	11/12/14 17:42	1011
o-Xylene	ND	ug/L	1.0		1	11/12/14	11/12/14 17:42	1011
Naphthalene	ND	ug/L	1.0		1	11/12/14	11/12/14 17:42	1011

Case Narrative Summary

Client Name: AECOM

Project Name: 7-11 Store #32785

Work Order Number(s): 14111102
Project ID: 60144916

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

The analyses of chlorine, pH, dissolved oxygen, temperature and sulfite for drinking water and non-potable samples tested for compliance have a maximum holding time of 15 minutes. As such, all laboratory analyses for these analytes exceed holding times.

Sample Receipt:

All sample receipt conditions were acceptable.

Analytical:

Total Petroleum Hydrocarbons-GRO

Batch: 118192

Surrogate exceedances identified; see surrogate summary form.

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.

Analytical Data Package Information Summary

Work Order(s): 14111102
Report Prepared For: AECOM, Annapolis Junction, MD
Project Name: 7 Eleven - gen'l
Project Manager: John Canzeri

Method	Client Sample Id	Analysis Type	Lab Sample Id	Analyst	Mtx	Prep Batch	Analytical Batch	Sampled	Prepared	Analyzed
SW-846 8015C	A/S INF	Initial	14111102-001	1035	W	52936	118192	11/10/2014	11/11/2014 08:34	11/11/2014 11:51
	A/S EFF	Initial	14111102-002	1035	W	52936	118192	11/10/2014	11/11/2014 08:34	11/11/2014 12:16
	GAC-1 EFF	Initial	14111102-003	1035	W	52936	118192	11/10/2014	11/11/2014 08:34	11/11/2014 12:41
	52936-2-BKS	BKS	52936-2-BKS	1035	W	52936	118192	--------	11/11/2014 08:34	11/11/2014 10:30
	52936-2-BLK	BLK	52936-2-BLK	1035	W	52936	118192	--------	11/11/2014 08:34	11/11/2014 09:59
	GAC-2 Final S	MS	14111103-001 S	1035	W	52936	118192	11/10/2014	11/11/2014 08:34	11/11/2014 14:32
	GAC-2 Final SD	MSD	14111103-001 SD	1035	W	52936	118192	11/10/2014	11/11/2014 08:34	11/11/2014 14:58
SW-846 8260 B	A/S INF	Initial	14111102-001	1011	W	52957	118228	11/10/2014	11/12/2014 08:35	11/12/2014 16:32
	A/S EFF	Initial	14111102-002	1011	W	52957	118228	11/10/2014	11/12/2014 08:35	11/12/2014 17:07
	GAC-1 EFF	Initial	14111102-003	1011	W	52957	118228	11/10/2014	11/12/2014 08:35	11/12/2014 17:42
	52957-1-BKS	BKS	52957-1-BKS	1011	W	52957	118228	--------	11/12/2014 08:35	11/12/2014 10:10
	52957-1-BLK	BLK	52957-1-BLK	1011	W	52957	118228	--------	11/12/2014 08:35	11/12/2014 11:20
	GAC-2 Final S	MS	14111103-001 S	1011	W	52957	118228	11/10/2014	11/12/2014 08:35	11/12/2014 14:47
	GAC-2 Final SD	MSD	14111103-001 SD	1011	W	52957	118228	11/10/2014	11/12/2014 08:35	11/12/2014 15:22

PHASE SEPARATION SCIENCE, INC.

QC Summary 14111102

AECOM
7-11 Store #32785

Analytical Method: SW-846 8015C Prep Method: SW5030B
Seq Number: 118192 Matrix: Ground Water Date Prep: 11/11/2014
PSS Sample ID: 14111102-001

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	95		65-111	%	11/11/14 11:51

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 118228 Matrix: Ground Water Date Prep: 11/12/2014
PSS Sample ID: 14111102-001

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	103		81-133	%	11/12/14 16:32
Dibromofluoromethane	99		84-110	%	11/12/14 16:32
Toluene-D8	98		94-109	%	11/12/14 16:32

Analytical Method: SW-846 8015C Prep Method: SW5030B
Seq Number: 118192 Matrix: Ground Water Date Prep: 11/11/2014
PSS Sample ID: 14111102-002

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	96		65-111	%	11/11/14 12:16

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 118228 Matrix: Ground Water Date Prep: 11/12/2014
PSS Sample ID: 14111102-002

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	105		81-133	%	11/12/14 17:07
Dibromofluoromethane	100		84-110	%	11/12/14 17:07
Toluene-D8	98		94-109	%	11/12/14 17:07

Analytical Method: SW-846 8015C Prep Method: SW5030B
Seq Number: 118192 Matrix: Ground Water Date Prep: 11/11/2014
PSS Sample ID: 14111102-003

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	95		65-111	%	11/11/14 12:41

PHASE SEPARATION SCIENCE, INC.

QC Summary 14111102

AECOM
7-11 Store #32785

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 118228 Matrix: Ground Water Date Prep: 11/12/2014
PSS Sample ID: 14111102-003

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	102		81-133	%	11/12/14 17:42
Dibromofluoromethane	101		84-110	%	11/12/14 17:42
Toluene-D8	101		94-109	%	11/12/14 17:42

F = RPD exceeded the laboratory control limits
X = Recovery of MS, MSD or both outside of QC Criteria
H= Recovery of BS,BSD or both exceeded the laboratory control limits
L = Recovery of BS,BSD or both below the laboratory control limits

PHASE SEPARATION SCIENCE, INC.

QC Summary 14111102

AECOM
7-11 Store #32785

Analytical Method: SW-846 8015C Prep Method: SW5030B
Seq Number: 118192 Matrix: Water Date Prep: 11/11/14
MB Sample Id: 52936-2-BLK LCS Sample Id: 52936-2-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
TPH-GRO (Gasoline Range Organics	<100	5000	3628	73	61-138	ug/L	11/11/14 10:30	

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	95		120	*	65-111	%	11/11/14 10:30

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 118228 Matrix: Water Date Prep: 11/12/14
MB Sample Id: 52957-1-BLK LCS Sample Id: 52957-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
tert-Butanol	<20.00	50.00	46.88	94	15-150	ug/L	11/12/14 10:10	
Methyl-t-Butyl Ether	<1.000	50.00	44.08	88	30-168	ug/L	11/12/14 10:10	
Benzene	<1.000	50.00	47.94	96	77-122	ug/L	11/12/14 10:10	
Toluene	<1.000	50.00	46.97	94	77-123	ug/L	11/12/14 10:10	
tert-Amyl ethyl ether	<10.00	50.00	47.63	95	60-121	ug/L	11/12/14 10:10	
tert-Butyl ethyl ether	<10.00	50.00	45.25	91	62-137	ug/L	11/12/14 10:10	
Diisopropyl ether	<10.00	50.00	46.41	93	48-146	ug/L	11/12/14 10:10	
tert-Amyl methyl ether	<10.00	50.00	46.90	94	61-129	ug/L	11/12/14 10:10	
tert-Amyl alcohol	<20.00	50.00	47.20	94	27-139	ug/L	11/12/14 10:10	
Ethylbenzene	<1.000	50.00	45.27	91	79-122	ug/L	11/12/14 10:10	
m&p-Xylene	<2.000	100	100.2	100	78-119	ug/L	11/12/14 10:10	
o-Xylene	<1.000	50.00	51.44	103	79-123	ug/L	11/12/14 10:10	
Naphthalene	<1.000	50.00	45.05	90	46-154	ug/L	11/12/14 10:10	

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	102		98		81-133	%	11/12/14 10:10
Dibromofluoromethane	99		100		84-110	%	11/12/14 10:10
Toluene-D8	96		97		94-109	%	11/12/14 10:10

F = RPD exceeded the laboratory control limits
X = Recovery of MS, MSD or both outside of QC Criteria
H= Recovery of BS,BSD or both exceeded the laboratory control limits
L = Recovery of BS,BSD or both below the laboratory control limits

SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

PHASE SEPARATION SCIENCE, INC.

www.phaseonline.com
email: info@phaseonline.com

(1)

*CLIENT: AECOM *OFFICE LOC. Beltsville, MD

*PROJECT MGR: J. Canzeri *PHONE NO.: (410) 379 6900

EMAIL: FAX NO.: ( )

*PROJECT NAME: 7-11 Stark #32785 PROJECT NO. 60144916

SITE LOCATION: Hampstead, MD P.O. NO.: 45814ACM

SAMPLER(S): Mike Parsons DW CERT NO.:

PSS Work Order #: 14111102 PAGE 1 OF 1

Matrix Codes: **SW**=Surface Wtr **DW**=Drinking Wtr **GW**=Ground Wtr **WW**=Waste Wtr **O**=Oil **S**=Soil **L**=Liquid **SOL**=Solid **A**=Air **WI**=Wipe

(2)

LAB NO.	*SAMPLE IDENTIFICATION	*DATE (SAMPLED)	*TIME (SAMPLED)	MATRIX (See Codes)	No. CONTAINERS	SAMPLE TYPE (C = COMP, G = GRAB)	* BTEX + 8260 (Preservatives Used: HCl)	* Naphthalene (HCl)	* TPH-GRO 8015 (HCl)	REMARKS
	A/S INF	11/10/14	1240	GW	6	G	✓	✓	✓	
	A/S EFF	)	1237	)	6	)	)	)	)	
	GAC-1 EFF	)	1234	)	6	)	)	)	)	

(3) Analysis/Method Required

(5)

Relinquished By: (1)	Date	Time	Received By:
MC (Parsons)	11/11/14	0750	[illegible]
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

(4)

*Requested TAT (One TAT per COC): ☑ 5-Day ☐ 3-Day ☐ 2-Day ☐ Next Day ☐ Emergency ☐ Other

Data Deliverables Required: COA ☑ QC SUMM ☐ CLP LIKE ☐ OTHER ____

# of Coolers: 1

Custody Seal: N/A

Ice Present: yes Temp: 1°C

Shipping Carrier: client

Special Instructions:

DW COMPLIANCE? YES ☐

EDD FORMAT TYPE: AECOM

STATE RESULTS REPORTED TO: MD ☑ DE ☐ PA ☐ VA ☐ WV ☐ OTHER ____

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The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary. * = REQUIRED

Phase Separation Science, Inc

Sample Receipt Checklist

Work Order #	14111102	**Received By**	Amy Friedlander
Client Name	AECOM	**Date Received**	11/11/2014 07:50:00 AM
Project Name	7-11 Store #32785	**Delivered By**	Client
Project Number	60144916	**Tracking No**	Not Applicable
Disposal Date	12/16/2014	**Logged In By**	Lynn Jackson

Shipping Container(s)

No. of Coolers 1

		Ice	Present
Custody Seal(s) Intact?	N/A	Temp (deg C)	1
Seal(s) Signed / Dated?	N/A	Temp Blank Present	No

Documentation

		Sampler Name	Mike Parsons
COC agrees with sample labels?	Yes	MD DW Cert. No.	N/A
Chain of Custody	Yes		

Sample Container

		Custody Seal(s) Intact?	Not Applicable
Appropriate for Specified Analysis?	Yes	Seal(s) Signed / Dated	Not Applicable
Intact?	Yes		
Labeled and Labels Legible?	Yes		

Total No. of Samples Received 3

Total No. of Containers Received 18

Preservation

Metals	(pH<2)	N/A
Cyanides	(pH>12)	N/A
Sulfide	(pH>9)	N/A
TOC, COD, Phenols	(pH<2)	N/A
TOX, TKN, NH3, Total Phos	(pH<2)	N/A
VOC, BTEX (VOA Vials Rcvd Preserved)	(pH<2)	Yes
Do VOA vials have zero headspace?		Yes
624 VOC (Rcvd at least one unpreserved VOA vial)		N/A

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling. Samples which require thermal preservation shall be considered acceptable when received at a temperature above freezing to 6°C. Samples that are hand delivered on the day that they are collected may not meet these criteria but shall be considered acceptable if there is evidence that the chilling process has begun such as arrival on ice.

Samples Inspected/Checklist Completed By: N L Jackson — Lynn Jackson — Date: 11/11/2014

PM Review and Approval: Amy Friedlander — Amy Friedlander — Date: 11/12/2014

Analytical Report for

AECOM

Certificate of Analysis No.: 14111103

Project Manager: John Canzeri
Project Name : 7-11 Store 32785
Project Location: Hampstead, MD
Project ID : 60144916

November 18, 2014

Phase Separation Science, Inc.
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PHASE SEPARATION SCIENCE, INC.

November 18, 2014

John Canzeri
AECOM
430 National Business Parkway
Annapolis Junction, MD 20701

Reference: PSS Work Order(s) No: **14111103**
Project Name: 7-11 Store 32785
Project Location: Hampstead, MD
Project ID.: 60144916

Dear John Canzeri :

This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order(s) numbered **14111103**.

All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on December 16, 2014. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt , the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 5 years, after which time it will be disposed of without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Sincerely,

Dan Prucnal
Laboratory Manager

Sample Summary

Client Name: AECOM

Project Name: 7-11 Store 32785

Work Order Number(s): 14111103

Project ID: 60144916

The following samples were received under chain of custody by Phase Separation Science (PSS) on 11/11/2014 at 07:50 am

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
14111103-001	GAC-2 Final	GROUND WATER	11/10/14 12:29

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

Notes:

1. The presence of a common laboratory contaminant such as methylene chloride may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. Unless otherwise noted in the case narrative, results are reported on a dry weight basis with the exception of pH, flashpoint, moisture, and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminates, and part 141.3, for the secondary drinking water contaminates.
5. Sample prepared under EPA 3550C with concentrations greater than 20 mg/Kg should employ the microtip extraction procedure if required to meet data quality objectives.
6. The analysis of acrolein by EPA 624 must be analyzed within three days of sampling unless pH is adjusted to 4-5 units [40 CFR part 136.3(e)].

Standard Flags/Abbreviations:

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
C Results Pending Final Confirmation.
E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
J The target analyte was positively identified below the reporting limit but greater than the LOD.
LOD Limit of Detection. An estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte and matrix specific.
ND Not Detected at or above the reporting limit.
RL PSS Reporting Limit.
U Not detected.

Certifications:

NELAP Certifications: PA 68-03330, VA 460156
State Certifications: MD 179, WV 303
Regulated Soil Permit: P330-12-00268
NSWC USCG Accepted Laboratory
LDBE MWAA LD1997-0041-2015

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14111103

AECOM, Annapolis Junction, MD

November 18, 2014

Project Name: 7-11 Store 32785
Project Location: Hampstead, MD
Project ID: 60144916

Sample ID: GAC-2 Final **Date/Time Sampled: 11/10/2014 12:29** **PSS Sample ID: 14111103-001**
Matrix: GROUND WATER **Date/Time Received: 11/11/2014 07:50**

Total Petroleum Hydrocarbons-GRO — Analytical Method: SW-846 8015C — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	11/11/14	11/11/14 11:25	1035

BTEX, Naphthalene + Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
tert-Butanol	ND	ug/L	20		1	11/12/14	11/12/14 14:12	1011
Methyl-t-Butyl Ether	ND	ug/L	1.0		1	11/12/14	11/12/14 14:12	1011
Benzene	ND	ug/L	1.0		1	11/12/14	11/12/14 14:12	1011
Toluene	ND	ug/L	1.0		1	11/12/14	11/12/14 14:12	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	11/12/14	11/12/14 14:12	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	11/12/14	11/12/14 14:12	1011
Diisopropyl ether	ND	ug/L	10		1	11/12/14	11/12/14 14:12	1011
tert-Amyl methyl ether	ND	ug/L	10		1	11/12/14	11/12/14 14:12	1011
tert-Amyl alcohol	ND	ug/L	20		1	11/12/14	11/12/14 14:12	1011
Ethylbenzene	ND	ug/L	1.0		1	11/12/14	11/12/14 14:12	1011
m&p-Xylene	ND	ug/L	2.0		1	11/12/14	11/12/14 14:12	1011
o-Xylene	ND	ug/L	1.0		1	11/12/14	11/12/14 14:12	1011
Naphthalene	ND	ug/L	1.0		1	11/12/14	11/12/14 14:12	1011

Case Narrative Summary

Client Name: AECOM

Project Name: 7-11 Store 32785

Work Order Number(s): 14111103
Project ID: 60144916

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

The analyses of chlorine, pH, dissolved oxygen, temperature and sulfite for drinking water and non-potable samples tested for compliance have a maximum holding time of 15 minutes. As such, all laboratory analyses for these analytes exceed holding times.

Sample Receipt:

All sample receipt conditions were acceptable.

Analytical:

Total Petroleum Hydrocarbons-GRO

Batch: 118192

Surrogate exceedances identified; see surrogate summary form.

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.

Analytical Data Package Information Summary

Work Order(s): 14111103
Report Prepared For: AECOM, Annapolis Junction, MD
Project Name: 7 Eleven - gen'l
Project Manager: John Canzeri

Method	Client Sample Id	Analysis Type	Lab Sample Id	Analyst	Mtx	Prep Batch	Analytical Batch	Sampled	Prepared	Analyzed
SW-846 8015C	GAC-2 Final	Initial	14111103-001	1035	W	52936	118192	11/10/2014	11/11/2014 08:34	11/11/2014 11:25
	52936-2-BKS	BKS	52936-2-BKS	1035	W	52936	118192	--------	11/11/2014 08:34	11/11/2014 10:30
	52936-2-BLK	BLK	52936-2-BLK	1035	W	52936	118192	--------	11/11/2014 08:34	11/11/2014 09:59
	GAC-2 Final S	MS	14111103-001 S	1035	W	52936	118192	11/10/2014	11/11/2014 08:34	11/11/2014 14:32
	GAC-2 Final SD	MSD	14111103-001 SD	1035	W	52936	118192	11/10/2014	11/11/2014 08:34	11/11/2014 14:58
SW-846 8260 B	GAC-2 Final	Initial	14111103-001	1011	W	52957	118228	11/10/2014	11/12/2014 08:35	11/12/2014 14:12
	52957-1-BKS	BKS	52957-1-BKS	1011	W	52957	118228	--------	11/12/2014 08:35	11/12/2014 10:10
	52957-1-BLK	BLK	52957-1-BLK	1011	W	52957	118228	--------	11/12/2014 08:35	11/12/2014 11:20
	GAC-2 Final S	MS	14111103-001 S	1011	W	52957	118228	11/10/2014	11/12/2014 08:35	11/12/2014 14:47
	GAC-2 Final SD	MSD	14111103-001 SD	1011	W	52957	118228	11/10/2014	11/12/2014 08:35	11/12/2014 15:22

PHASE SEPARATION SCIENCE, INC.

QC Summary 14111103

AECOM
7-11 Store 32785

Analytical Method: SW-846 8015C Prep Method: SW5030B
Seq Number: 118192 Matrix: Ground Water Date Prep: 11/11/2014
PSS Sample ID: 14111103-001

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	96		65-111	%	11/11/14 11:25

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 118228 Matrix: Ground Water Date Prep: 11/12/2014
PSS Sample ID: 14111103-001

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	102		81-133	%	11/12/14 14:12
Dibromofluoromethane	99		84-110	%	11/12/14 14:12
Toluene-D8	100		94-109	%	11/12/14 14:12

F = RPD exceeded the laboratory control limits
X = Recovery of MS, MSD or both outside of QC Criteria
H= Recovery of BS,BSD or both exceeded the laboratory control limits
L = Recovery of BS,BSD or both below the laboratory control limits

PHASE SEPARATION SCIENCE, INC.

QC Summary 14111103

AECOM
7-11 Store 32785

Analytical Method: SW-846 8015C Prep Method: SW5030B
Seq Number: 118192 Matrix: Water Date Prep: 11/11/14
MB Sample Id: 52936-2-BLK LCS Sample Id: 52936-2-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
TPH-GRO (Gasoline Range Organic:	<100	5000	3628	73	61-138	ug/L	11/11/14 10:30	

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	95		120	*	65-111	%	11/11/14 10:30

Analytical Method: SW-846 8015C Prep Method: SW5030B
Seq Number: 118192 Matrix: Ground Water Date Prep: 11/11/14
Parent Sample Id: 14111103-001 MS Sample Id: 14111103-001 S MSD Sample Id: 14111103-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
TPH-GRO (Gasoline Range Organic:	<100	5000	4480	90	4276	86	58-136	5	25	ug/L	11/11/14 14:32	

Surrogate	MS Result	MS Flag	MSD Result	MSD Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	128	*	124	*	65-111	%	11/11/14 14:32

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 118228 Matrix: Water Date Prep: 11/12/14
MB Sample Id: 52957-1-BLK LCS Sample Id: 52957-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
tert-Butanol	<20.00	50.00	46.88	94	15-150	ug/L	11/12/14 10:10	
Methyl-t-Butyl Ether	<1.000	50.00	44.08	88	30-168	ug/L	11/12/14 10:10	
Benzene	<1.000	50.00	47.94	96	77-122	ug/L	11/12/14 10:10	
Toluene	<1.000	50.00	46.97	94	77-123	ug/L	11/12/14 10:10	
tert-Amyl ethyl ether	<10.00	50.00	47.63	95	60-121	ug/L	11/12/14 10:10	
tert-Butyl ethyl ether	<10.00	50.00	45.25	91	62-137	ug/L	11/12/14 10:10	
Diisopropyl ether	<10.00	50.00	46.41	93	48-146	ug/L	11/12/14 10:10	
tert-Amyl methyl ether	<10.00	50.00	46.90	94	61-129	ug/L	11/12/14 10:10	
tert-Amyl alcohol	<20.00	50.00	47.20	94	27-139	ug/L	11/12/14 10:10	
Ethylbenzene	<1.000	50.00	45.27	91	79-122	ug/L	11/12/14 10:10	
m&p-Xylene	<2.000	100	100.2	100	78-119	ug/L	11/12/14 10:10	
o-Xylene	<1.000	50.00	51.44	103	79-123	ug/L	11/12/14 10:10	
Naphthalene	<1.000	50.00	45.05	90	46-154	ug/L	11/12/14 10:10	

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	102		98		81-133	%	11/12/14 10:10
Dibromofluoromethane	99		100		84-110	%	11/12/14 10:10
Toluene-D8	96		97		94-109	%	11/12/14 10:10

PHASE SEPARATION SCIENCE, INC.

QC Summary 14111103

AECOM
7-11 Store 32785

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 118228 Matrix: Ground Water Date Prep: 11/12/14
Parent Sample Id: 14111103-001 MS Sample Id: 14111103-001 S MSD Sample Id: 14111103-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
tert-Butanol	<20.00	50.00	43.04	86	48.41	97	1-183	12	25	ug/L	11/12/14 14:47	
Methyl-t-Butyl Ether	<1.000	50.00	42.31	85	43.40	87	22-182	3	25	ug/L	11/12/14 14:47	
Benzene	<1.000	50.00	47.37	95	48.66	97	75-132	3	25	ug/L	11/12/14 14:47	
Toluene	<1.000	50.00	46.21	92	49.69	99	74-132	7	25	ug/L	11/12/14 14:47	
tert-Amyl ethyl ether	<10.00	50.00	45.44	91	47.38	95	48-129	4	25	ug/L	11/12/14 14:47	
tert-Butyl ethyl ether	<10.00	50.00	43.52	87	44.22	88	55-141	2	25	ug/L	11/12/14 14:47	
Diisopropyl ether	<10.00	50.00	46.47	93	46.34	93	49-150	0	25	ug/L	11/12/14 14:47	
tert-Amyl methyl ether	<10.00	50.00	44.12	88	45.95	92	50-139	4	25	ug/L	11/12/14 14:47	
tert-Amyl alcohol	<20.00	50.00	36.97	74	43.34	87	5-149	16	25	ug/L	11/12/14 14:47	
Ethylbenzene	<1.000	50.00	47.07	94	48.95	98	74-129	4	25	ug/L	11/12/14 14:47	
m&p-Xylene	<2.000	100	97.76	98	100.5	101	78-119	3	25	ug/L	11/12/14 14:47	
o-Xylene	<1.000	50.00	49.79	100	50.91	102	80-123	2	25	ug/L	11/12/14 14:47	
Naphthalene	<1.000	50.00	42.28	85	44.54	89	7-137	5	25	ug/L	11/12/14 14:47	

Surrogate	MS Result	MS Flag	MSD Result	MSD Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	95		94		81-133	%	11/12/14 14:47
Dibromofluoromethane	100		100		84-110	%	11/12/14 14:47
Toluene-D8	98		102		94-109	%	11/12/14 14:47

F = RPD exceeded the laboratory control limits
X = Recovery of MS, MSD or both outside of QC Criteria
H= Recovery of BS,BSD or both exceeded the laboratory control limits
L = Recovery of BS,BSD or both below the laboratory control limits

SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

PHASE SEPARATION SCIENCE, INC.

www.phaseonline.com
email: info@phaseonline.com

1

*CLIENT: AECOM *OFFICE LOC. Beltsville, MD

*PROJECT MGR: J. Canzeri *PHONE NO.: (~~249~~ 410) 379-6900

EMAIL: FAX NO.: ( )

*PROJECT NAME: 7-11 Store 32785 PROJECT NO. 60144916

SITE LOCATION: Hampstead, MD P.O. NO.: 45814ACM

SAMPLER(S): Mike Parsons DW CERT NO.:

PSS Work Order #: 1411103 PAGE 1 OF 1

Matrix Codes:
SW=Surface Wtr **DW**=Drinking Wtr **GW**=Ground Wtr **WW**=Waste Wtr **O**=Oil **S**=Soil **L**=Liquid **SOL**=Solid **A**=Air **WI**=Wipe

2

LAB NO.	*SAMPLE IDENTIFICATION	*DATE (SAMPLED)	*TIME (SAMPLED)	MATRIX (See Codes)	No. CONTAINERS	SAMPLE TYPE C = COMP G = GRAB	Preservatives Used: HCL	HCL	HCL										REMARKS
							Analysis/ Method Required ③ * BTEX + OXY 8260	Naphthalene	TPH-GRO 8015										
	GAC-2 FINAL	11/10/14	1229	GW	6	G	✓	✓	✓										

5

Relinquished By: (1)	Date	Time	Received By:
MC (Parsons)	11/11/14	0750	[signature]
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

4

*Requested TAT (One TAT per COC)
☑ 5-Day ☐ 3-Day ☐ 2-Day
☐ Next Day ☐ Emergency ☐ Other

Data Deliverables Required:
COA ☑ QC SUMM ☐ CLP LIKE ☐ OTHER ____

# of Coolers: 1
Custody Seal: N/A
Ice Present: Yes Temp: 1°C
Shipping Carrier: client

Special Instructions:

DW COMPLIANCE? YES ☐

EDD FORMAT TYPE: AECOM

STATE RESULTS REPORTED TO:
MD ☑ DE ☐ PA ☐ VA ☐ WV ☐ OTHER ____

6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723

The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary. * = REQUIRED

Phase Separation Science, Inc

Sample Receipt Checklist

Work Order #	14111103	**Received By**	Amy Friedlander
Client Name	AECOM	**Date Received**	11/11/2014 07:50:00 AM
Project Name	7-11 Store 32785	**Delivered By**	Client
Project Number	60144916	**Tracking No**	Not Applicable
Disposal Date	12/16/2014	**Logged In By**	Lynn Jackson

Shipping Container(s)

No. of Coolers 1

		Ice	Present
Custody Seal(s) Intact?	N/A	Temp (deg C)	1
Seal(s) Signed / Dated?	N/A	Temp Blank Present	No

Documentation

		Sampler Name	Mike Parsons
COC agrees with sample labels?	Yes	MD DW Cert. No.	N/A
Chain of Custody	Yes		

Sample Container

		Custody Seal(s) Intact?	Not Applicable
Appropriate for Specified Analysis?	Yes	Seal(s) Signed / Dated	Not Applicable
Intact?	Yes		
Labeled and Labels Legible?	Yes		

Total No. of Samples Received 1

Total No. of Containers Received 6

Preservation

Metals	(pH<2)	N/A
Cyanides	(pH>12)	N/A
Sulfide	(pH>9)	N/A
TOC, COD, Phenols	(pH<2)	N/A
TOX, TKN, NH3, Total Phos	(pH<2)	N/A
VOC, BTEX (VOA Vials Rcvd Preserved)	(pH<2)	Yes
Do VOA vials have zero headspace?		Yes
624 VOC (Rcvd at least one unpreserved VOA vial)		N/A

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling. Samples which require thermal preservation shall be considered acceptable when received at a temperature above freezing to 6°C. Samples that are hand delivered on the day that they are collected may not meet these criteria but shall be considered acceptable if there is evidence that the chilling process has begun such as arrival on ice.

Samples Inspected/Checklist Completed By: N L Jackson — Lynn Jackson — Date: 11/11/2014

PM Review and Approval: Amy Friedlander — Amy Friedlander — Date: 11/12/2014

Analytical Report for

AECOM

Certificate of Analysis No.: 14112526

Project Manager: John Canzeri
Project Name : 7-11 Store 32785
Project Location: Hampstead, MD
Project ID : 60144916

December 4, 2014

Phase Separation Science, Inc.
6630 Baltimore National Pike
Baltimore, MD 21228
Phone: (410) 747-8770
Fax: (410) 788-8723

OFFICES:
6630 BALTIMORE NATIONAL PIKE
ROUTE 40 WEST
BALTIMORE, MD 21228
410-747-8770
800-932-9047
FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.

December 4, 2014

John Canzeri
AECOM
430 National Business Parkway
Annapolis Junction, MD 20701

Reference: PSS Work Order(s) No: **14112526**
Project Name: 7-11 Store 32785
Project Location: Hampstead, MD
Project ID.: 60144916

Dear John Canzeri :

This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order(s) numbered **14112526**.

All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on December 30, 2014. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt , the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 5 years, after which time it will be disposed of without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Sincerely,

Dan Prucnal
Laboratory Manager

Sample Summary

Client Name: AECOM

Project Name: 7-11 Store 32785

Work Order Number(s): 14112526

Project ID: 60144916

The following samples were received under chain of custody by Phase Separation Science (PSS) on 11/25/2014 at 03:25 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
14112526-001	GAC-2 FINAL	GROUND WATER	11/24/14 12:55

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

Notes:

1. The presence of a common laboratory contaminant such as methylene chloride may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. Unless otherwise noted in the case narrative, results are reported on a dry weight basis with the exception of pH, flashpoint, moisture, and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminates, and part 141.3, for the secondary drinking water contaminates.
5. Sample prepared under EPA 3550C with concentrations greater than 20 mg/Kg should employ the microtip extraction procedure if required to meet data quality objectives.
6. The analysis of acrolein by EPA 624 must be analyzed within three days of sampling unless pH is adjusted to 4-5 units [40 CFR part 136.3(e)].

Standard Flags/Abbreviations:

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
C Results Pending Final Confirmation.
E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
J The target analyte was positively identified below the reporting limit but greater than the LOD.
LOD Limit of Detection. An estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte and matrix specific.
ND Not Detected at or above the reporting limit.
RL PSS Reporting Limit.
U Not detected.

Certifications:

NELAP Certifications: PA 68-03330, VA 460156
State Certifications: MD 179, WV 303
Regulated Soil Permit: P330-12-00268
NSWC USCG Accepted Laboratory
LDBE MWAA LD1997-0041-2015

OFFICES:
6630 BALTIMORE NATIONAL PIKE
ROUTE 40 WEST
BALTIMORE, MD 21228
410-747-8770
800-932-9047
FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14112526

AECOM, Annapolis Junction, MD

December 4, 2014

Project Name: 7-11 Store 32785
Project Location: Hampstead, MD
Project ID: 60144916

Sample ID: GAC-2 FINAL **Date/Time Sampled: 11/24/2014 12:55** **PSS Sample ID: 14112526-001**
Matrix: GROUND WATER **Date/Time Received: 11/25/2014 15:25**

Total Petroleum Hydrocarbons-GRO — Analytical Method: SW-846 8015C — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	11/26/14	11/26/14 12:19	1035

BTEX, Naphthalene + Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
tert-Amyl alcohol	ND	ug/L	20		1	11/26/14	11/27/14 00:57	1011
tert-Amyl methyl ether	ND	ug/L	10		1	11/26/14	11/27/14 00:57	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	11/26/14	11/27/14 00:57	1011
Benzene	ND	ug/L	1.0		1	11/26/14	11/27/14 00:57	1011
tert-Butyl alcohol	ND	ug/L	20		1	11/26/14	11/27/14 00:57	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	11/26/14	11/27/14 00:57	1011
Diisopropyl ether	ND	ug/L	10		1	11/26/14	11/27/14 00:57	1011
Ethylbenzene	ND	ug/L	1.0		1	11/26/14	11/27/14 00:57	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	11/26/14	11/27/14 00:57	1011
Naphthalene	ND	ug/L	1.0		1	11/26/14	11/27/14 00:57	1011
Toluene	ND	ug/L	1.0		1	11/26/14	11/27/14 00:57	1011
m,p-Xylenes	ND	ug/L	2.0		1	11/26/14	11/27/14 00:57	1011
o-Xylene	ND	ug/L	1.0		1	11/26/14	11/27/14 00:57	1011

Case Narrative Summary

Client Name: AECOM

Project Name: 7-11 Store 32785

Work Order Number(s): 14112526
Project ID: 60144916

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

The analyses of chlorine, pH, dissolved oxygen, temperature and sulfite for drinking water and non-potable samples tested for compliance have a maximum holding time of 15 minutes. As such, all laboratory analyses for these analytes exceed holding times.

Sample Receipt:

All sample receipt conditions were acceptable.

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.

Analytical Data Package Information Summary

Work Order(s): 14112526
Report Prepared For: AECOM, Annapolis Junction, MD
Project Name: 7 Eleven - gen'l
Project Manager: John Canzeri

Method	Client Sample Id	Analysis Type	Lab Sample Id	Analyst	Mtx	Prep Batch	Analytical Batch	Sampled	Prepared	Analyzed
SW-846 8015C	GAC-2 FINAL	Initial	14112526-001	1035	W	53185	118610	11/24/2014	11/26/2014 08:28	11/26/2014 12:19
	53185-2-BKS	BKS	53185-2-BKS	1035	W	53185	118610	--------	11/26/2014 08:28	11/26/2014 10:12
	53185-2-BLK	BLK	53185-2-BLK	1035	W	53185	118610	--------	11/26/2014 08:28	11/26/2014 09:46
	GAC-2 FINAL S	MS	14112526-001 S	1035	W	53185	118610	11/24/2014	11/26/2014 08:28	11/26/2014 18:42
	GAC-2 FINAL SD	MSD	14112526-001 SD	1035	W	53185	118610	11/24/2014	11/26/2014 08:28	11/26/2014 19:07
SW-846 8260 B	GAC-2 FINAL	Initial	14112526-001	1011	W	53204	118635	11/24/2014	11/26/2014 19:42	11/27/2014 00:57
	53204-1-BKS	BKS	53204-1-BKS	1011	W	53204	118635	--------	11/26/2014 19:42	11/26/2014 21:27
	53204-1-BLK	BLK	53204-1-BLK	1011	W	53204	118635	--------	11/26/2014 19:42	11/26/2014 22:38
	GAC-2 FINAL S	MS	14112526-001 S	1011	W	53204	118635	11/24/2014	11/26/2014 19:42	11/27/2014 01:33
	GAC-2 FINAL SD	MSD	14112526-001 SD	1011	W	53204	118635	11/24/2014	11/26/2014 19:42	11/27/2014 02:07

PHASE SEPARATION SCIENCE, INC.

QC Summary 14112526

AECOM
7-11 Store 32785

Analytical Method: SW-846 8015C Prep Method: SW5030B
Seq Number: 118610 Matrix: Ground Water Date Prep: 11/26/2014
PSS Sample ID: 14112526-001

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	87		65-111	%	11/26/14 12:19

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 118635 Matrix: Ground Water Date Prep: 11/26/2014
PSS Sample ID: 14112526-001

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	97		81-133	%	11/27/14 00:57
Dibromofluoromethane	103		84-110	%	11/27/14 00:57
Toluene-D8	99		94-109	%	11/27/14 00:57

F = RPD exceeded the laboratory control limits
X = Recovery of MS, MSD or both outside of QC Criteria
H= Recovery of BS,BSD or both exceeded the laboratory control limits
L = Recovery of BS,BSD or both below the laboratory control limits

PHASE SEPARATION SCIENCE, INC.

QC Summary 14112526

AECOM
7-11 Store 32785

Analytical Method: SW-846 8015C Prep Method: SW5030B
Seq Number: 118610 Matrix: Water Date Prep: 11/26/14
MB Sample Id: 53185-2-BLK LCS Sample Id: 53185-2-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
TPH-GRO (Gasoline Range Organics	<100	5000	4762	95	61-138	ug/L	11/26/14 10:12	

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	87		96		65-111	%	11/26/14 10:12

Analytical Method: SW-846 8015C Prep Method: SW5030B
Seq Number: 118610 Matrix: Ground Water Date Prep: 11/26/14
Parent Sample Id: 14112526-001 MS Sample Id: 14112526-001 S MSD Sample Id: 14112526-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
TPH-GRO (Gasoline Range Organics	<100	5000	4065	81	3896	78	58-136	4	25	ug/L	11/26/14 18:42	

Surrogate	MS Result	MS Flag	MSD Result	MSD Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	94		92		65-111	%	11/26/14 18:42

PHASE SEPARATION SCIENCE, INC.

QC Summary 14112526

AECOM
7-11 Store 32785

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 118635 Matrix: Water Date Prep: 11/26/14
MB Sample Id: 53204-1-BLK LCS Sample Id: 53204-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Acetone	<10.00	50.00	57.64	115	53-146	ug/L	11/26/14 21:27	
tert-Amyl alcohol	<20.00	50.00	42.95	86	27-139	ug/L	11/26/14 21:27	
tert-Amyl ethyl ether	<10.00	50.00	44.46	89	60-121	ug/L	11/26/14 21:27	
tert-Amyl methyl ether	<10.00	50.00	44.71	89	61-129	ug/L	11/26/14 21:27	
Benzene	<1.000	50.00	47.61	95	77-122	ug/L	11/26/14 21:27	
Bromochloromethane	<1.000	50.00	50.34	101	71-122	ug/L	11/26/14 21:27	
Bromodichloromethane	<1.000	50.00	48.83	98	76-122	ug/L	11/26/14 21:27	
Bromoform	<5.000	50.00	50.53	101	69-115	ug/L	11/26/14 21:27	
Bromomethane	<1.000	50.00	50.71	101	40-147	ug/L	11/26/14 21:27	
tert-Butyl alcohol	<20.00	50.00	50.90	102	15-150	ug/L	11/26/14 21:27	
2-Butanone (MEK)	<10.00	50.00	55.00	110	56-133	ug/L	11/26/14 21:27	
tert-Butyl ethyl ether	<10.00	50.00	42.83	86	62-137	ug/L	11/26/14 21:27	
Carbon Disulfide	<10.00	50.00	43.08	86	62-134	ug/L	11/26/14 21:27	
Carbon Tetrachloride	<1.000	50.00	44.38	89	74-127	ug/L	11/26/14 21:27	
Chlorobenzene	<1.000	50.00	48.04	96	76-116	ug/L	11/26/14 21:27	
Chloroethane	<1.000	50.00	52.18	104	59-132	ug/L	11/26/14 21:27	
Chloroform	<1.000	50.00	48.97	98	71-118	ug/L	11/26/14 21:27	
Chloromethane	<1.000	50.00	47.78	96	62-131	ug/L	11/26/14 21:27	
Cyclohexane	<10.00	50.00	38.76	78	46-150	ug/L	11/26/14 21:27	
1,2-Dibromo-3-Chloropropane	<10.00	50.00	45.06	90	59-135	ug/L	11/26/14 21:27	
Dibromochloromethane	<1.000	50.00	50.78	102	75-114	ug/L	11/26/14 21:27	
1,2-Dibromoethane (EDB)	<1.000	50.00	47.70	95	78-121	ug/L	11/26/14 21:27	
1,2-Dichlorobenzene	<1.000	50.00	49.08	98	80-122	ug/L	11/26/14 21:27	
1,3-Dichlorobenzene	<1.000	50.00	49.41	99	80-122	ug/L	11/26/14 21:27	
1,4-Dichlorobenzene	<1.000	50.00	48.97	98	77-118	ug/L	11/26/14 21:27	
Dichlorodifluoromethane	<1.000	50.00	39.06	78	54-139	ug/L	11/26/14 21:27	
1,1-Dichloroethane	<1.000	50.00	46.49	93	51-136	ug/L	11/26/14 21:27	
1,2-Dichloroethane	<1.000	50.00	47.81	96	64-130	ug/L	11/26/14 21:27	
1,1-Dichloroethene	<1.000	50.00	56.25	113	59-123	ug/L	11/26/14 21:27	
cis-1,2-Dichloroethene	<1.000	50.00	48.03	96	77-119	ug/L	11/26/14 21:27	
1,2-Dichloropropane	<1.000	50.00	46.76	94	75-125	ug/L	11/26/14 21:27	
cis-1,3-Dichloropropene	<1.000	50.00	46.18	92	74-123	ug/L	11/26/14 21:27	
trans-1,3-Dichloropropene	<1.000	50.00	46.99	94	73-116	ug/L	11/26/14 21:27	
trans-1,2-Dichloroethene	<1.000	50.00	47.60	95	58-134	ug/L	11/26/14 21:27	
Diisopropyl ether	<10.00	50.00	44.79	90	48-146	ug/L	11/26/14 21:27	
Ethylbenzene	<1.000	50.00	47.40	95	79-122	ug/L	11/26/14 21:27	
2-Hexanone	<10.00	50.00	50.64	101	56-134	ug/L	11/26/14 21:27	
Isopropylbenzene	<1.000	50.00	46.90	94	80-128	ug/L	11/26/14 21:27	
Methyl Acetate	<10.00	50.00	51.30	103	47-145	ug/L	11/26/14 21:27	
Methylcyclohexane	<10.00	50.00	40.94	82	61-155	ug/L	11/26/14 21:27	
Methylene Chloride	<1.000	50.00	47.54	95	61-126	ug/L	11/26/14 21:27	
4-Methyl-2-Pentanone	<5.000	50.00	49.26	99	45-145	ug/L	11/26/14 21:27	
Methyl-t-butyl ether	<1.000	50.00	42.18	84	30-168	ug/L	11/26/14 21:27	
Naphthalene	<1.000	50.00	46.98	94	46-154	ug/L	11/26/14 21:27	
Styrene	<1.000	50.00	50.85	102	73-118	ug/L	11/26/14 21:27	
1,1,2,2-Tetrachloroethane	<1.000	50.00	43.22	86	71-126	ug/L	11/26/14 21:27	
Tetrachloroethene	<1.000	50.00	49.46	99	78-113	ug/L	11/26/14 21:27	
Toluene	<1.000	50.00	48.78	98	77-123	ug/L	11/26/14 21:27	
1,2,3-Trichlorobenzene	<1.000	50.00	52.62	105	66-140	ug/L	11/26/14 21:27	
1,2,4-Trichlorobenzene	<1.000	50.00	53.06	106	72-143	ug/L	11/26/14 21:27	
1,1,1-Trichloroethane	<1.000	50.00	48.40	97	66-133	ug/L	11/26/14 21:27	

PHASE SEPARATION SCIENCE, INC.

QC Summary 14112526

AECOM
7-11 Store 32785

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 118635 Matrix: Water Date Prep: 11/26/14
MB Sample Id: 53204-1-BLK LCS Sample Id: 53204-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
1,1,2-Trichloroethane	<1.000	50.00	46.69	93	72-128	ug/L	11/26/14 21:27	
Trichloroethene	<1.000	50.00	48.73	97	72-127	ug/L	11/26/14 21:27	
Trichlorofluoromethane	<5.000	50.00	42.22	84	45-130	ug/L	11/26/14 21:27	
1,1,2-Trichloro-1,2,2-Trifluoroethane	<1.000	50.00	47.62	95	56-126	ug/L	11/26/14 21:27	
Vinyl Chloride	<1.000	50.00	52.54	105	64-132	ug/L	11/26/14 21:27	
m,p-Xylenes	<2.000	100	96.92	97	78-119	ug/L	11/26/14 21:27	
o-Xylene	<1.000	50.00	49.61	99	79-123	ug/L	11/26/14 21:27	

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	96		94		81-133	%	11/26/14 21:27
Dibromofluoromethane	103		104		84-110	%	11/26/14 21:27
Toluene-D8	101		101		94-109	%	11/26/14 21:27

PHASE SEPARATION SCIENCE, INC.

QC Summary 14112526

AECOM
7-11 Store 32785

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 118635 Matrix: Ground Water Date Prep: 11/26/14
Parent Sample Id: 14112526-001 MS Sample Id: 14112526-001 S MSD Sample Id: 14112526-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Acetone	<10.00	50.00	55.17	110	57.52	115	41-161	4	25	ug/L	11/27/14 01:33	
tert-Amyl alcohol	<20.00	50.00	27.91	56	35.94	72	5-149	25	25	ug/L	11/27/14 01:33	
tert-Amyl ethyl ether	<10.00	50.00	41.39	83	39.94	80	48-129	4	25	ug/L	11/27/14 01:33	
tert-Amyl methyl ether	<10.00	50.00	41.50	83	40.26	81	50-139	3	25	ug/L	11/27/14 01:33	
Benzene	<1.000	50.00	48.14	96	45.72	91	75-132	5	25	ug/L	11/27/14 01:33	
Bromochloromethane	<1.000	50.00	49.30	99	47.43	95	67-130	4	25	ug/L	11/27/14 01:33	
Bromodichloromethane	<1.000	50.00	47.40	95	45.43	91	69-134	4	25	ug/L	11/27/14 01:33	
Bromoform	<5.000	50.00	47.33	95	46.52	93	65-115	2	25	ug/L	11/27/14 01:33	
Bromomethane	<1.000	50.00	50.03	100	46.95	94	29-154	6	25	ug/L	11/27/14 01:33	
tert-Butyl alcohol	<20.00	50.00	46.72	93	48.26	97	1-183	3	25	ug/L	11/27/14 01:33	
2-Butanone (MEK)	<10.00	50.00	48.61	97	51.25	103	47-140	5	25	ug/L	11/27/14 01:33	
tert-Butyl ethyl ether	<10.00	50.00	40.49	81	39.72	79	55-141	2	25	ug/L	11/27/14 01:33	
Carbon Disulfide	<10.00	50.00	42.53	85	41.44	83	59-146	3	25	ug/L	11/27/14 01:33	
Carbon Tetrachloride	<1.000	50.00	45.47	91	43.97	88	74-136	3	25	ug/L	11/27/14 01:33	
Chlorobenzene	<1.000	50.00	47.93	96	45.58	91	78-115	5	25	ug/L	11/27/14 01:33	
Chloroethane	<1.000	50.00	51.28	103	49.91	100	40-150	3	25	ug/L	11/27/14 01:33	
Chloroform	<1.000	50.00	49.09	98	46.58	93	67-130	5	25	ug/L	11/27/14 01:33	
Chloromethane	<1.000	50.00	47.84	96	45.15	90	59-144	6	25	ug/L	11/27/14 01:33	
Cyclohexane	<10.00	50.00	38.94	78	39.94	80	34-161	3	25	ug/L	11/27/14 01:33	
1,2-Dibromo-3-Chloropropane	<10.00	50.00	38.72	77	41.10	82	45-125	6	25	ug/L	11/27/14 01:33	
Dibromochloromethane	<1.000	50.00	48.29	97	46.90	94	73-114	3	25	ug/L	11/27/14 01:33	
1,2-Dibromoethane (EDB)	<1.000	50.00	45.32	91	44.83	90	72-126	1	25	ug/L	11/27/14 01:33	
1,2-Dichlorobenzene	<1.000	50.00	46.65	93	45.85	92	73-117	2	25	ug/L	11/27/14 01:33	
1,3-Dichlorobenzene	<1.000	50.00	47.17	94	46.41	93	73-117	2	25	ug/L	11/27/14 01:33	
1,4-Dichlorobenzene	<1.000	50.00	46.66	93	45.91	92	72-111	2	25	ug/L	11/27/14 01:33	
Dichlorodifluoromethane	<1.000	50.00	37.40	75	38.88	78	47-159	4	25	ug/L	11/27/14 01:33	
1,1-Dichloroethane	<1.000	50.00	47.44	95	45.54	91	44-152	4	25	ug/L	11/27/14 01:33	
1,2-Dichloroethane	<1.000	50.00	46.79	94	45.15	90	60-142	4	25	ug/L	11/27/14 01:33	
1,1-Dichloroethene	<1.000	50.00	55.57	111	53.87	108	50-136	3	25	ug/L	11/27/14 01:33	
cis-1,2-Dichloroethene	<1.000	50.00	47.32	95	45.16	90	76-127	5	25	ug/L	11/27/14 01:33	
1,2-Dichloropropane	<1.000	50.00	45.89	92	43.82	88	70-139	5	25	ug/L	11/27/14 01:33	
cis-1,3-Dichloropropene	<1.000	50.00	42.90	86	41.07	82	64-127	4	25	ug/L	11/27/14 01:33	
trans-1,3-Dichloropropene	<1.000	50.00	43.06	86	42.43	85	62-123	1	25	ug/L	11/27/14 01:33	
trans-1,2-Dichloroethene	<1.000	50.00	47.71	95	45.76	92	54-144	4	25	ug/L	11/27/14 01:33	
Diisopropyl ether	<10.00	50.00	43.46	87	42.65	85	49-150	2	25	ug/L	11/27/14 01:33	
Ethylbenzene	<1.000	50.00	47.54	95	45.19	90	74-129	5	25	ug/L	11/27/14 01:33	
2-Hexanone	<10.00	50.00	45.92	92	47.47	95	50-130	3	25	ug/L	11/27/14 01:33	
Isopropylbenzene	<1.000	50.00	45.96	92	44.08	88	72-130	4	25	ug/L	11/27/14 01:33	
Methyl Acetate	<10.00	50.00	43.14	86	45.29	91	37-143	5	25	ug/L	11/27/14 01:33	
Methylcyclohexane	<10.00	50.00	40.84	82	42.20	84	55-148	3	25	ug/L	11/27/14 01:33	
Methylene Chloride	<1.000	50.00	45.31	91	45.70	91	56-137	1	25	ug/L	11/27/14 01:33	
4-Methyl-2-Pentanone	<5.000	50.00	40.71	81	41.03	82	44-133	1	25	ug/L	11/27/14 01:33	
Methyl-t-butyl ether	<1.000	50.00	39.19	78	39.87	80	22-182	2	25	ug/L	11/27/14 01:33	
Naphthalene	<1.000	50.00	40.65	81	41.31	83	7-137	2	25	ug/L	11/27/14 01:33	
Styrene	<1.000	50.00	51.28	103	47.05	94	67-121	9	25	ug/L	11/27/14 01:33	
1,1,2,2-Tetrachloroethane	<1.000	50.00	40.44	81	40.24	80	68-127	0	25	ug/L	11/27/14 01:33	
Tetrachloroethene	<1.000	50.00	47.86	96	45.48	91	69-126	5	25	ug/L	11/27/14 01:33	
Toluene	<1.000	50.00	47.92	96	45.48	91	74-132	5	25	ug/L	11/27/14 01:33	
1,2,3-Trichlorobenzene	<1.000	50.00	45.79	92	45.45	91	9-139	1	25	ug/L	11/27/14 01:33	
1,2,4-Trichlorobenzene	<1.000	50.00	48.13	96	47.66	95	31-135	1	25	ug/L	11/27/14 01:33	
1,1,1-Trichloroethane	<1.000	50.00	48.68	97	46.90	94	70-138	4	25	ug/L	11/27/14 01:33	

PHASE SEPARATION SCIENCE, INC.

QC Summary 14112526

AECOM
7-11 Store 32785

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 118635 Matrix: Ground Water Date Prep: 11/26/14
Parent Sample Id: 14112526-001 MS Sample Id: 14112526-001 S MSD Sample Id: 14112526-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,2-Trichloroethane	<1.000	50.00	44.10	88	44.82	90	65-143	2	25	ug/L	11/27/14 01:33	
Trichloroethene	<1.000	50.00	47.99	96	46.41	93	67-139	3	25	ug/L	11/27/14 01:33	
Trichlorofluoromethane	<5.000	50.00	42.57	85	42.75	86	37-147	0	25	ug/L	11/27/14 01:33	
1,1,2-Trichloro-1,2,2-Trifluoroethane	<1.000	50.00	45.82	92	47.72	95	47-139	4	25	ug/L	11/27/14 01:33	
Vinyl Chloride	<1.000	50.00	54.76	110	51.87	104	60-146	5	25	ug/L	11/27/14 01:33	
m,p-Xylenes	<2.000	100	97.97	98	92.09	92	78-119	6	25	ug/L	11/27/14 01:33	
o-Xylene	<1.000	50.00	49.85	100	47.18	94	80-123	6	25	ug/L	11/27/14 01:33	

Surrogate	MS Result	MS Flag	MSD Result	MSD Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	91		91		81-133	%	11/27/14 01:33
Dibromofluoromethane	103		102		84-110	%	11/27/14 01:33
Toluene-D8	101		100		94-109	%	11/27/14 01:33

F = RPD exceeded the laboratory control limits
X = Recovery of MS, MSD or both outside of QC Criteria
H= Recovery of BS,BSD or both exceeded the laboratory control limits
L = Recovery of BS,BSD or both below the laboratory control limits

SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

PHASE SEPARATION SCIENCE, INC.

www.phaseonline.com
email: info@phaseonline.com

(1)

*CLIENT: AECOM *OFFICE LOC. Beltsville MD

*PROJECT MGR: J. Canzeri *PHONE NO.: (410) 379 6900

EMAIL: FAX NO.: ( )

*PROJECT NAME: 7-11 Store 32785 PROJECT NO. 60144916

SITE LOCATION: Hampstead, MD P.O. NO.: 45814 ACM

SAMPLER(S): Mike Parsons DW CERT NO.:

PSS Work Order #: 1412526 PAGE 1 OF 1

Matrix Codes: SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil L=Liquid SOL=Solid A=Air WI=Wipe

(2)

LAB NO.	*SAMPLE IDENTIFICATION	*DATE (SAMPLED)	*TIME (SAMPLED)	MATRIX (See Codes)	No. CONTAINERS	SAMPLE TYPE C = COMP G = GRAB	BTEX + DIA 8260	Naphthalene	TPH-GRO 8015	REMARKS
						Preservatives Used	HCl	HCl	HCl	
	GAC-2 FINAL	11/24/14	1255	GW	6	G				

(3) *

(5)

Relinquished By:	Date	Time	Received By:
(1) M. Parsons	11/25/14	1525	B. Rivera
(2)			
(3)			
(4)			

(4)

*Requested TAT (One TAT per COC): ☑ 5-Day ☐ 3-Day ☐ 2-Day ☐ Next Day ☐ Emergency ☐ Other

Data Deliverables Required: COA ☑ QC SUMM ☐ CLP LIKE ☐ OTHER ____

Special Instructions:

DW COMPLIANCE? YES ☐

EDD FORMAT TYPE: AECOM

STATE RESULTS REPORTED TO: MD ☑ DE ☐ PA ☐ VA ☐ WV ☐ OTHER ____

# of Coolers: 1

Custody Seal: ABSENT

Ice Present: PRESENT Temp: 3°C

Shipping Carrier: CLIENT

6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723

The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary. * = REQUIRED

Phase Separation Science, Inc

Sample Receipt Checklist

Work Order #	14112526	**Received By**	Shirley Rivera
Client Name	AECOM	**Date Received**	11/25/2014 03:25:00 PM
Project Name	7-11 Store 32785	**Delivered By**	Client
Project Number	60144916	**Tracking No**	Not Applicable
Disposal Date	12/30/2014	**Logged In By**	Robyn Rhudy

Shipping Container(s)

No. of Coolers 1

		Ice	Present
Custody Seal(s) Intact?	N/A	Temp (deg C)	3
Seal(s) Signed / Dated?	N/A	Temp Blank Present	No

Documentation

		Sampler Name	Mike Parsons
COC agrees with sample labels?	Yes	MD DW Cert. No.	N/A
Chain of Custody	Yes		

Sample Container

		Custody Seal(s) Intact?	Not Applicable
Appropriate for Specified Analysis?	Yes	Seal(s) Signed / Dated	Not Applicable
Intact?	Yes		
Labeled and Labels Legible?	Yes		

Total No. of Samples Received 1

Total No. of Containers Received 6

Preservation

Metals	(pH<2)	N/A
Cyanides	(pH>12)	N/A
Sulfide	(pH>9)	N/A
TOC, COD, Phenols	(pH<2)	N/A
TOX, TKN, NH3, Total Phos	(pH<2)	N/A
VOC, BTEX (VOA Vials Rcvd Preserved)	(pH<2)	Yes
Do VOA vials have zero headspace?		Yes
624 VOC (Rcvd at least one unpreserved VOA vial)		N/A

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling. Samples which require thermal preservation shall be considered acceptable when received at a temperature above freezing to 6°C. Samples that are hand delivered on the day that they are collected may not meet these criteria but shall be considered acceptable if there is evidence that the chilling process has begun such as arrival on ice.

Samples Inspected/Checklist Completed By: Robyn Rhudy — Date: 11/25/2014

PM Review and Approval: John Slowikowski — Date: 11/26/2014

Analytical Report for

AECOM

Certificate of Analysis No.: 14120407

Project Manager: John Canzeri
Project Name : 7-11 Hampstead #32785
Project Location: Hampstead, MD
Project ID : 6014 4916

December 11, 2014

Phase Separation Science, Inc.
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PHASE SEPARATION SCIENCE, INC.

December 11, 2014

John Canzeri
AECOM
8000 Virginia Manor Rd, Ste 110
Beltsville, MD 20705

Reference: PSS Work Order(s) No: **14120407**
Project Name: 7-11 Hampstead #32785
Project Location: Hampstead, MD
Project ID.: 6014 4916

Dear John Canzeri :

This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order(s) numbered **14120407**.

All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on January 8, 2015. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt , the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 5 years, after which time it will be disposed of without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Sincerely,

Dan Prucnal
Laboratory Manager

Sample Summary

Client Name: AECOM

Project Name: 7-11 Hampstead #32785

Work Order Number(s): 14120407

Project ID: 6014 4916

The following samples were received under chain of custody by Phase Separation Science (PSS) on 12/04/2014 at 02:00 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
14120407-001	A/S Inf	GROUND WATER	12/03/14 00:00
14120407-002	A/S Eff	GROUND WATER	12/03/14 00:00
14120407-003	GAC 1 Eff	GROUND WATER	12/03/14 00:00
14120407-004	GAC 2 Final	GROUND WATER	12/03/14 00:00

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

Notes:

1. The presence of a common laboratory contaminant such as methylene chloride may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. Unless otherwise noted in the case narrative, results are reported on a dry weight basis with the exception of pH, flashpoint, moisture, and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminates, and part 141.3, for the secondary drinking water contaminates.
5. Sample prepared under EPA 3550C with concentrations greater than 20 mg/Kg should employ the microtip extraction procedure if required to meet data quality objectives.
6. The analysis of acrolein by EPA 624 must be analyzed within three days of sampling unless pH is adjusted to 4-5 units [40 CFR part 136.3(e)].

Standard Flags/Abbreviations:

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
C Results Pending Final Confirmation.
E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
J The target analyte was positively identified below the reporting limit but greater than the LOD.
LOD Limit of Detection. An estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte and matrix specific.
ND Not Detected at or above the reporting limit.
RL PSS Reporting Limit.
U Not detected.

Certifications:

NELAP Certifications: PA 68-03330, VA 460156
State Certifications: MD 179, WV 303
Regulated Soil Permit: P330-12-00268
NSWC USCG Accepted Laboratory
LDBE MWAA LD1997-0041-2015

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14120407
AECOM, Beltsville, MD
December 11, 2014

Project Name: 7-11 Hampstead #32785
Project Location: Hampstead, MD
Project ID: 6014 4916

Sample ID: A/S Inf **Date/Time Sampled: 12/03/2014 00:00** **PSS Sample ID: 14120407-001**
Matrix: GROUND WATER **Date/Time Received: 12/04/2014 14:00**

Total Petroleum Hydrocarbons-GRO — Analytical Method: SW-846 8015C — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	12/04/14	12/04/14 22:51	1035

BTEX, Naphthalene + Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
tert-Butanol	ND	ug/L	20		1	12/07/14	12/07/14 19:34	1011
Methyl-t-Butyl Ether	**24**	ug/L	1.0		1	12/07/14	12/07/14 19:34	1011
Benzene	ND	ug/L	1.0		1	12/07/14	12/07/14 19:34	1011
Toluene	ND	ug/L	1.0		1	12/07/14	12/07/14 19:34	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	12/07/14	12/07/14 19:34	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	12/07/14	12/07/14 19:34	1011
Diisopropyl ether	ND	ug/L	10		1	12/07/14	12/07/14 19:34	1011
tert-Amyl methyl ether	ND	ug/L	10		1	12/07/14	12/07/14 19:34	1011
tert-Amyl alcohol	ND	ug/L	20		1	12/07/14	12/07/14 19:34	1011
Ethylbenzene	ND	ug/L	1.0		1	12/07/14	12/07/14 19:34	1011
m&p-Xylene	ND	ug/L	2.0		1	12/07/14	12/07/14 19:34	1011
o-Xylene	ND	ug/L	1.0		1	12/07/14	12/07/14 19:34	1011
Naphthalene	ND	ug/L	1.0		1	12/07/14	12/07/14 19:34	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14120407
AECOM, Beltsville, MD
December 11, 2014

Project Name: 7-11 Hampstead #32785
Project Location: Hampstead, MD
Project ID: 6014 4916

Sample ID: A/S Eff **Date/Time Sampled: 12/03/2014 00:00** **PSS Sample ID: 14120407-002**
Matrix: GROUND WATER **Date/Time Received: 12/04/2014 14:00**

Total Petroleum Hydrocarbons-GRO — Analytical Method: SW-846 8015C — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	12/04/14	12/04/14 23:16	1035

BTEX, Naphthalene + Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
tert-Butanol	ND	ug/L	20		1	12/07/14	12/08/14 00:12	1011
Methyl-t-Butyl Ether	ND	ug/L	1.0		1	12/07/14	12/08/14 00:12	1011
Benzene	ND	ug/L	1.0		1	12/07/14	12/08/14 00:12	1011
Toluene	ND	ug/L	1.0		1	12/07/14	12/08/14 00:12	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	12/07/14	12/08/14 00:12	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	12/07/14	12/08/14 00:12	1011
Diisopropyl ether	ND	ug/L	10		1	12/07/14	12/08/14 00:12	1011
tert-Amyl methyl ether	ND	ug/L	10		1	12/07/14	12/08/14 00:12	1011
tert-Amyl alcohol	ND	ug/L	20		1	12/07/14	12/08/14 00:12	1011
Ethylbenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 00:12	1011
m&p-Xylene	ND	ug/L	2.0		1	12/07/14	12/08/14 00:12	1011
o-Xylene	ND	ug/L	1.0		1	12/07/14	12/08/14 00:12	1011
Naphthalene	ND	ug/L	1.0		1	12/07/14	12/08/14 00:12	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14120407
AECOM, Beltsville, MD
December 11, 2014

Project Name: 7-11 Hampstead #32785
Project Location: Hampstead, MD
Project ID: 6014 4916

Sample ID: GAC 1 Eff **Date/Time Sampled: 12/03/2014 00:00** **PSS Sample ID: 14120407-003**
Matrix: GROUND WATER **Date/Time Received: 12/04/2014 14:00**

Total Petroleum Hydrocarbons-GRO — Analytical Method: SW-846 8015C — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	12/04/14	12/04/14 23:41	1035

BTEX, Naphthalene + Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
tert-Butanol	ND	ug/L	20		1	12/07/14	12/08/14 02:31	1011
Methyl-t-Butyl Ether	ND	ug/L	1.0		1	12/07/14	12/08/14 02:31	1011
Benzene	ND	ug/L	1.0		1	12/07/14	12/08/14 02:31	1011
Toluene	ND	ug/L	1.0		1	12/07/14	12/08/14 02:31	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	12/07/14	12/08/14 02:31	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	12/07/14	12/08/14 02:31	1011
Diisopropyl ether	ND	ug/L	10		1	12/07/14	12/08/14 02:31	1011
tert-Amyl methyl ether	ND	ug/L	10		1	12/07/14	12/08/14 02:31	1011
tert-Amyl alcohol	ND	ug/L	20		1	12/07/14	12/08/14 02:31	1011
Ethylbenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 02:31	1011
m&p-Xylene	ND	ug/L	2.0		1	12/07/14	12/08/14 02:31	1011
o-Xylene	ND	ug/L	1.0		1	12/07/14	12/08/14 02:31	1011
Naphthalene	ND	ug/L	1.0		1	12/07/14	12/08/14 02:31	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14120407
AECOM, Beltsville, MD
December 11, 2014

Project Name: 7-11 Hampstead #32785
Project Location: Hampstead, MD
Project ID: 6014 4916

Sample ID: GAC 2 Final **Date/Time Sampled: 12/03/2014 00:00** **PSS Sample ID: 14120407-004**
Matrix: GROUND WATER **Date/Time Received: 12/04/2014 14:00**

Total Petroleum Hydrocarbons-GRO — Analytical Method: SW-846 8015C — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	12/04/14	12/05/14 00:07	1035

BTEX, Naphthalene + Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
tert-Butanol	ND	ug/L	20		1	12/07/14	12/08/14 03:06	1011
Methyl-t-Butyl Ether	ND	ug/L	1.0		1	12/07/14	12/08/14 03:06	1011
Benzene	ND	ug/L	1.0		1	12/07/14	12/08/14 03:06	1011
Toluene	ND	ug/L	1.0		1	12/07/14	12/08/14 03:06	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	12/07/14	12/08/14 03:06	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	12/07/14	12/08/14 03:06	1011
Diisopropyl ether	ND	ug/L	10		1	12/07/14	12/08/14 03:06	1011
tert-Amyl methyl ether	ND	ug/L	10		1	12/07/14	12/08/14 03:06	1011
tert-Amyl alcohol	ND	ug/L	20		1	12/07/14	12/08/14 03:06	1011
Ethylbenzene	ND	ug/L	1.0		1	12/07/14	12/08/14 03:06	1011
m&p-Xylene	ND	ug/L	2.0		1	12/07/14	12/08/14 03:06	1011
o-Xylene	ND	ug/L	1.0		1	12/07/14	12/08/14 03:06	1011
Naphthalene	ND	ug/L	1.0		1	12/07/14	12/08/14 03:06	1011

Case Narrative Summary

Client Name: AECOM

Project Name: 7-11 Hampstead #32785

Work Order Number(s): 14120407
Project ID: 6014 4916

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

The analyses of chlorine, pH, dissolved oxygen, temperature and sulfite for drinking water and non-potable samples tested for compliance have a maximum holding time of 15 minutes. As such, all laboratory analyses for these analytes exceed holding times.

Sample Receipt:

All sample receipt conditions were acceptable.

Analytical:

Total Petroleum Hydrocarbons-GRO

Batch: 118794
Surrogate exceedances identified; see surrogate summary form.

GC/MS Purgeable Aromatics

Batch: 118820
CCV - Vinyl chloride had 126% recovery (QC limit: 80-120%). Vinyl chloride is not a reporting compound for this project.

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.

Analytical Data Package Information Summary

Work Order(s): 14120407
Report Prepared For: AECOM, Beltsville, MD
Project Name: 7 Eleven - gen'l
Project Manager: John Canzeri

Method	Client Sample Id	Analysis Type	Lab Sample Id	Analyst	Mtx	Prep Batch	Analytical Batch	Sampled	Prepared	Analyzed
SW-846 8015C	A/S Inf	Initial	14120407-001	1035	W	53295	118794	12/03/2014	12/04/2014 19:52	12/04/2014 22:51
	A/S Eff	Initial	14120407-002	1035	W	53295	118794	12/03/2014	12/04/2014 19:52	12/04/2014 23:16
	GAC 1 Eff	Initial	14120407-003	1035	W	53295	118794	12/03/2014	12/04/2014 19:52	12/04/2014 23:41
	GAC 2 Final	Initial	14120407-004	1035	W	53295	118794	12/03/2014	12/04/2014 19:52	12/05/2014 00:07
	53295-2-BKS	BKS	53295-2-BKS	1035	W	53295	118794	--------	12/04/2014 19:52	12/04/2014 22:00
	53295-2-BLK	BLK	53295-2-BLK	1035	W	53295	118794	--------	12/04/2014 19:52	12/04/2014 21:34
	A/S Inf S	MS	14120407-001 S	1035	W	53295	118794	12/03/2014	12/04/2014 19:52	12/05/2014 06:02
	A/S Inf SD	MSD	14120407-001 SD	1035	W	53295	118794	12/03/2014	12/04/2014 19:52	12/05/2014 06:27
SW-846 8260 B	A/S Inf	Initial	14120407-001	1011	W	53308	118817	12/03/2014	12/07/2014 08:28	12/07/2014 19:34
	53308-1-BKS	BKS	53308-1-BKS	1011	W	53308	118817	--------	12/07/2014 08:28	12/07/2014 10:11
	53308-1-BLK	BLK	53308-1-BLK	1011	W	53308	118817	--------	12/07/2014 08:28	12/07/2014 11:21
	MW-14 S	MS	14120401-013 S	1011	W	53308	118817	12/02/2014	12/07/2014 08:28	12/07/2014 12:31
	MW-14 SD	MSD	14120401-013 SD	1011	W	53308	118817	12/02/2014	12/07/2014 08:28	12/07/2014 13:06
	A/S Eff	Initial	14120407-002	1011	W	53310	118820	12/03/2014	12/07/2014 20:44	12/08/2014 00:12
	GAC 1 Eff	Initial	14120407-003	1011	W	53310	118820	12/03/2014	12/07/2014 20:44	12/08/2014 02:31
	GAC 2 Final	Initial	14120407-004	1011	W	53310	118820	12/03/2014	12/07/2014 20:44	12/08/2014 03:06
	53310-1-BKS	BKS	53310-1-BKS	1011	W	53310	118820	--------	12/07/2014 20:44	12/07/2014 22:28
	53310-1-BLK	BLK	53310-1-BLK	1011	W	53310	118820	--------	12/07/2014 20:44	12/07/2014 23:37
	A/S Eff S	MS	14120407-002 S	1011	W	53310	118820	12/03/2014	12/07/2014 20:44	12/08/2014 00:47
	A/S Eff SD	MSD	14120407-002 SD	1011	W	53310	118820	12/03/2014	12/07/2014 20:44	12/08/2014 01:22

PHASE SEPARATION SCIENCE, INC.

QC Summary 14120407

AECOM
7-11 Hampstead #32785

Analytical Method: SW-846 8015C Prep Method: SW5030B
Seq Number: 118794 Matrix: Ground Water Date Prep: 12/04/2014
PSS Sample ID: 14120407-001

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	85		65-111	%	12/04/14 22:51

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 118817 Matrix: Ground Water Date Prep: 12/07/2014
PSS Sample ID: 14120407-001

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	100		81-133	%	12/07/14 19:34
Dibromofluoromethane	107		84-110	%	12/07/14 19:34
Toluene-D8	102		94-109	%	12/07/14 19:34

Analytical Method: SW-846 8015C Prep Method: SW5030B
Seq Number: 118794 Matrix: Ground Water Date Prep: 12/04/2014
PSS Sample ID: 14120407-002

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	85		65-111	%	12/04/14 23:16

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 118820 Matrix: Ground Water Date Prep: 12/07/2014
PSS Sample ID: 14120407-002

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	100		81-133	%	12/08/14 00:12
Dibromofluoromethane	106		84-110	%	12/08/14 00:12
Toluene-D8	103		94-109	%	12/08/14 00:12

Analytical Method: SW-846 8015C Prep Method: SW5030B
Seq Number: 118794 Matrix: Ground Water Date Prep: 12/04/2014
PSS Sample ID: 14120407-003

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	81		65-111	%	12/04/14 23:41

PHASE SEPARATION SCIENCE, INC.

QC Summary 14120407

AECOM
7-11 Hampstead #32785

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 118820 Matrix: Ground Water Date Prep: 12/07/2014
PSS Sample ID: 14120407-003

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	99		81-133	%	12/08/14 02:31
Dibromofluoromethane	105		84-110	%	12/08/14 02:31
Toluene-D8	104		94-109	%	12/08/14 02:31

Analytical Method: SW-846 8015C Prep Method: SW5030B
Seq Number: 118794 Matrix: Ground Water Date Prep: 12/04/2014
PSS Sample ID: 14120407-004

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	85		65-111	%	12/05/14 00:07

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 118820 Matrix: Ground Water Date Prep: 12/07/2014
PSS Sample ID: 14120407-004

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	92		81-133	%	12/08/14 03:06
Dibromofluoromethane	106		84-110	%	12/08/14 03:06
Toluene-D8	103		94-109	%	12/08/14 03:06

F = RPD exceeded the laboratory control limits
X = Recovery of MS, MSD or both outside of QC Criteria
H= Recovery of BS,BSD or both exceeded the laboratory control limits
L = Recovery of BS,BSD or both below the laboratory control limits

PHASE SEPARATION SCIENCE, INC.

QC Summary 14120407

AECOM

7-11 Hampstead #32785

Analytical Method: SW-846 8015C Prep Method: SW5030B

Seq Number: 118794 Matrix: Water Date Prep: 12/04/14

MB Sample Id: 53295-2-BLK LCS Sample Id: 53295-2-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
TPH-GRO (Gasoline Range Organic:	<100	5000	4298	86	61-138	ug/L	12/04/14 22:00	

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	86		119	*	65-111	%	12/04/14 22:00

Analytical Method: SW-846 8015C Prep Method: SW5030B

Seq Number: 118794 Matrix: Ground Water Date Prep: 12/04/14

Parent Sample Id: 14120407-001 MS Sample Id: 14120407-001 S MSD Sample Id: 14120407-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
TPH-GRO (Gasoline Range Organic:	<100	5000	4210	84	3882	78	58-136	8	25	ug/L	12/05/14 06:02	

Surrogate	MS Result	MS Flag	MSD Result	MSD Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	92		113	*	65-111	%	12/05/14 06:02

Analytical Method: SW-846 8260 B Prep Method: SW5030B

Seq Number: 118817 Matrix: Water Date Prep: 12/07/14

MB Sample Id: 53308-1-BLK LCS Sample Id: 53308-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
tert-Butanol	<20.00	50.00	51.30	103	15-150	ug/L	12/07/14 10:11	
Methyl-t-Butyl Ether	<1.000	50.00	40.31	81	30-168	ug/L	12/07/14 10:11	
Benzene	<1.000	50.00	46.38	93	77-122	ug/L	12/07/14 10:11	
Toluene	<1.000	50.00	45.72	91	77-123	ug/L	12/07/14 10:11	
tert-Amyl ethyl ether	<10.00	50.00	41.92	84	60-121	ug/L	12/07/14 10:11	
tert-Butyl ethyl ether	<10.00	50.00	41.54	83	62-137	ug/L	12/07/14 10:11	
Diisopropyl ether	<10.00	50.00	44.55	89	48-146	ug/L	12/07/14 10:11	
tert-Amyl methyl ether	<10.00	50.00	41.59	83	61-129	ug/L	12/07/14 10:11	
tert-Amyl alcohol	<20.00	50.00	33.46	67	27-139	ug/L	12/07/14 10:11	
Ethylbenzene	<1.000	50.00	42.59	85	79-122	ug/L	12/07/14 10:11	
m&p-Xylene	<2.000	100	88.45	88	78-119	ug/L	12/07/14 10:11	
o-Xylene	<1.000	50.00	44.94	90	79-123	ug/L	12/07/14 10:11	
Naphthalene	<1.000	50.00	35.88	72	46-154	ug/L	12/07/14 10:11	

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	99		96		81-133	%	12/07/14 10:11
Dibromofluoromethane	106		106		84-110	%	12/07/14 10:11
Toluene-D8	103		103		94-109	%	12/07/14 10:11

PHASE SEPARATION SCIENCE, INC.

QC Summary 14120407

AECOM

7-11 Hampstead #32785

Analytical Method: SW-846 8260 B Prep Method: SW5030B

Seq Number: 118820 Matrix: Water Date Prep: 12/07/14

MB Sample Id: 53310-1-BLK LCS Sample Id: 53310-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
tert-Butanol	<20.00	50.00	46.34	93	15-150	ug/L	12/07/14 22:28	
Methyl-t-Butyl Ether	<1.000	50.00	41.34	83	30-168	ug/L	12/07/14 22:28	
Benzene	<1.000	50.00	48.03	96	77-122	ug/L	12/07/14 22:28	
Toluene	<1.000	50.00	46.92	94	77-123	ug/L	12/07/14 22:28	
tert-Amyl ethyl ether	<10.00	50.00	42.30	85	60-121	ug/L	12/07/14 22:28	
tert-Butyl ethyl ether	<10.00	50.00	42.52	85	62-137	ug/L	12/07/14 22:28	
Diisopropyl ether	<10.00	50.00	46.36	93	48-146	ug/L	12/07/14 22:28	
tert-Amyl methyl ether	<10.00	50.00	42.04	84	61-129	ug/L	12/07/14 22:28	
tert-Amyl alcohol	<20.00	50.00	28.34	57	27-139	ug/L	12/07/14 22:28	
Ethylbenzene	<1.000	50.00	43.58	87	79-122	ug/L	12/07/14 22:28	
m&p-Xylene	<2.000	100	89.89	90	78-119	ug/L	12/07/14 22:28	
o-Xylene	<1.000	50.00	45.85	92	79-123	ug/L	12/07/14 22:28	
Naphthalene	<1.000	50.00	32.97	66	46-154	ug/L	12/07/14 22:28	

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	99		94		81-133	%	12/07/14 22:28
Dibromofluoromethane	106		106		84-110	%	12/07/14 22:28
Toluene-D8	103		104		94-109	%	12/07/14 22:28

Analytical Method: SW-846 8260 B Prep Method: SW5030B

Seq Number: 118820 Matrix: Ground Water Date Prep: 12/07/14

Parent Sample Id: 14120407-002 MS Sample Id: 14120407-002 S MSD Sample Id: 14120407-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
tert-Butanol	<20.00	50.00	48.52	97	46.98	94	1-183	3	25	ug/L	12/08/14 00:47	
Methyl-t-Butyl Ether	<1.000	50.00	39.42	79	38.46	77	22-182	2	25	ug/L	12/08/14 00:47	
Benzene	<1.000	50.00	48.11	96	44.82	90	75-132	7	25	ug/L	12/08/14 00:47	
Toluene	<1.000	50.00	47.29	95	43.93	88	74-132	7	25	ug/L	12/08/14 00:47	
tert-Amyl ethyl ether	<10.00	50.00	40.35	81	38.02	76	48-129	6	25	ug/L	12/08/14 00:47	
tert-Butyl ethyl ether	<10.00	50.00	40.29	81	38.79	78	55-141	4	25	ug/L	12/08/14 00:47	
Diisopropyl ether	<10.00	50.00	44.19	88	42.16	84	49-150	5	25	ug/L	12/08/14 00:47	
tert-Amyl methyl ether	<10.00	50.00	39.41	79	38.84	78	50-139	1	25	ug/L	12/08/14 00:47	
tert-Amyl alcohol	<20.00	50.00	24.32	49	29.21	58	5-149	18	25	ug/L	12/08/14 00:47	
Ethylbenzene	<1.000	50.00	43.03	86	39.90	80	74-129	8	25	ug/L	12/08/14 00:47	
m&p-Xylene	<2.000	100	88.29	88	81.85	82	78-119	8	25	ug/L	12/08/14 00:47	
o-Xylene	<1.000	50.00	44.94	90	42.21	84	80-123	6	25	ug/L	12/08/14 00:47	
Naphthalene	<1.000	50.00	30.90	62	30.39	61	7-137	2	25	ug/L	12/08/14 00:47	

Surrogate	MS Result	MS Flag	MSD Result	MSD Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	94		94		81-133	%	12/08/14 00:47
Dibromofluoromethane	107		107		84-110	%	12/08/14 00:47
Toluene-D8	104		103		94-109	%	12/08/14 00:47

F = RPD exceeded the laboratory control limits
X = Recovery of MS, MSD or both outside of QC Criteria
H= Recovery of BS,BSD or both exceeded the laboratory control limits

PHASE SEPARATION SCIENCE, INC.

QC Summary 14120407

AECOM

7-11 Hampstead #32785

L = Recovery of BS,BSD or both below the laboratory control limits

SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

PHASE SEPARATION SCIENCE, INC.

www.phaseonline.com
email: info@phaseonline.com

(1)

*CLIENT: AECOM *OFFICE LOC. Beltsville, MD

*PROJECT MGR: John Ganzeri *PHONE NO.: 240) 294-8594

EMAIL: FAX NO.: ( )

*PROJECT NAME: 711 Hampstead #32785 PROJECT NO.: 60144916

SITE LOCATION: Hampstead, MD P.O. NO.:

SAMPLER(S): NB DW CERT NO.:

PSS Work Order #: 14120407 PAGE 1 OF 1

Matrix Codes: **SW**=Surface Wtr **DW**=Drinking Wtr **GW**=Ground Wtr **WW**=Waste Wtr **O**=Oil **S**=Soil **L**=Liquid **SOL**=Solid **A**=Air **WI**=Wipe

(2)

LAB NO.	*SAMPLE IDENTIFICATION	*DATE (SAMPLED)	*TIME (SAMPLED)	MATRIX (See Codes)	No. CONTAINERS	SAMPLE TYPE C = COMP G = GRAB	BTEX + OXY 8260	Naphthalene	TPH-GRO 8015	REMARKS
					Preservatives Used		HCL	HCL	HCL	
	A/S Inf	12/3/14		GW	6	G	✓	✓	✓	
	A/S Eff				6		✓	✓	✓	
	GAC 1 Eff				6		✓	✓	✓	
	GAC 2 Final				6		✓	✓	✓	

(3) *

(4)

*Requested TAT (One TAT per COC): ☐ 5-Day ☐ 3-Day ☐ 2-Day ☐ Next Day ☐ Emergency ☐ Other

Data Deliverables Required: COA ☑ QC SUMM ☐ CLP LIKE ☐ OTHER ____

# of Coolers: 1

Custody Seal: N/A

Ice Present: yes Temp: 1°C

Shipping Carrier: client

Special Instructions:

DW COMPLIANCE? YES ☐

EDD FORMAT TYPE: AECOM

STATE RESULTS REPORTED TO: MD ☑ DE ☐ PA ☐ VA ☐ WV ☐ OTHER ____

(5)

Relinquished By:	Date	Time	Received By:
(1) [signature]	12/4/14	2pm	[signature]
(2)			
(3)			
(4)			

6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723

The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary. * = REQUIRED

Phase Separation Science, Inc

Sample Receipt Checklist

Work Order #	14120407	**Received By**	Amy Friedlander
Client Name	AECOM	**Date Received**	12/04/2014 02:00:00 PM
Project Name	7-11 Hampstead #32785	**Delivered By**	Client
Project Number	6014 4916	**Tracking No**	Not Applicable
Disposal Date	01/08/2015	**Logged In By**	Amy Friedlander

Shipping Container(s)

No. of Coolers 1

		Ice	Present
Custody Seal(s) Intact?	N/A	Temp (deg C)	1
Seal(s) Signed / Dated?	N/A	Temp Blank Present	No

Documentation

		Sampler Name	Nick Barrett
COC agrees with sample labels?	Yes	MD DW Cert. No.	N/A
Chain of Custody	Yes		

Sample Container

		Custody Seal(s) Intact?	Not Applicable
Appropriate for Specified Analysis?	Yes	Seal(s) Signed / Dated	Not Applicable
Intact?	Yes		
Labeled and Labels Legible?	Yes		

Total No. of Samples Received 4

Total No. of Containers Received 24

Preservation

Metals	(pH<2)	N/A
Cyanides	(pH>12)	N/A
Sulfide	(pH>9)	N/A
TOC, COD, Phenols	(pH<2)	N/A
TOX, TKN, NH3, Total Phos	(pH<2)	N/A
VOC, BTEX (VOA Vials Rcvd Preserved)	(pH<2)	Yes
Do VOA vials have zero headspace?		Yes
624 VOC (Rcvd at least one unpreserved VOA vial)		N/A

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling. Samples which require thermal preservation shall be considered acceptable when received at a temperature above freezing to 6°C. Samples that are hand delivered on the day that they are collected may not meet these criteria but shall be considered acceptable if there is evidence that the chilling process has begun such as arrival on ice.

Samples Inspected/Checklist Completed By: Amy Friedlander Date: 12/04/2014

PM Review and Approval: Amy Friedlander Date: 12/05/2014

Analytical Report for

AECOM

Certificate of Analysis No.: 14123005

Project Manager: John Canzeri
Project Name : 7-11 Store 32785
Project Location: Hampstead, MD
Project ID : 60144916

January 7, 2015

Phase Separation Science, Inc.
6630 Baltimore National Pike
Baltimore, MD 21228
Phone: (410) 747-8770
Fax: (410) 788-8723

OFFICES:
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800-932-9047
FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.

January 7, 2015

John Canzeri
AECOM
8000 Virginia Manor Rd, Ste 110
Beltsville, MD 20705

Reference: PSS Work Order(s) No: **14123005**
Project Name: 7-11 Store 32785
Project Location: Hampstead, MD
Project ID.: 60144916

Dear John Canzeri :

This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order(s) numbered **14123005**.

All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on February 3, 2015. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt , the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 5 years, after which time it will be disposed of without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Sincerely,

Dan Prucnal
Laboratory Manager

Sample Summary

Client Name: AECOM

Project Name: 7-11 Store 32785

Work Order Number(s): 14123005

Project ID: 60144916

The following samples were received under chain of custody by Phase Separation Science (PSS) on 12/30/2014 at 10:27 am

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
14123005-001	GAC-2 FINAL	GROUND WATER	12/29/14 16:05

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

Notes:

1. The presence of a common laboratory contaminant such as methylene chloride may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. Unless otherwise noted in the case narrative, results are reported on a dry weight basis with the exception of pH, flashpoint, moisture, and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminates, and part 141.3, for the secondary drinking water contaminates.
5. Sample prepared under EPA 3550C with concentrations greater than 20 mg/Kg should employ the microtip extraction procedure if required to meet data quality objectives.
6. The analysis of acrolein by EPA 624 must be analyzed within three days of sampling unless pH is adjusted to 4-5 units [40 CFR part 136.3(e)].

Standard Flags/Abbreviations:

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
C Results Pending Final Confirmation.
E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
J The target analyte was positively identified below the reporting limit but greater than the LOD.
LOD Limit of Detection. An estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte and matrix specific.
ND Not Detected at or above the reporting limit.
RL PSS Reporting Limit.
U Not detected.

Certifications:

NELAP Certifications: PA 68-03330, VA 460156
State Certifications: MD 179, WV 303
Regulated Soil Permit: P330-12-00268
NSWC USCG Accepted Laboratory
LDBE MWAA LD1997-0041-2015

OFFICES:
6630 BALTIMORE NATIONAL PIKE
ROUTE 40 WEST
BALTIMORE, MD 21228
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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14123005
AECOM, Beltsville, MD
January 7, 2015

Project Name: 7-11 Store 32785
Project Location: Hampstead, MD
Project ID: 60144916

Sample ID: GAC-2 FINAL **Date/Time Sampled: 12/29/2014 16:05** **PSS Sample ID: 14123005-001**
Matrix: GROUND WATER **Date/Time Received: 12/30/2014 10:27**

Total Petroleum Hydrocarbons-GRO — Analytical Method: SW-846 8015C — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	12/30/14	12/30/14 17:52	1035

BTEX, Naphthalene + Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
tert-Butanol	ND	ug/L	20		1	01/03/15	01/03/15 23:42	1011
Methyl-t-Butyl Ether	ND	ug/L	1.0		1	01/03/15	01/03/15 23:42	1011
Benzene	ND	ug/L	1.0		1	01/03/15	01/03/15 23:42	1011
Toluene	ND	ug/L	1.0		1	01/03/15	01/03/15 23:42	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	01/03/15	01/03/15 23:42	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	01/03/15	01/03/15 23:42	1011
Diisopropyl ether	ND	ug/L	10		1	01/03/15	01/03/15 23:42	1011
tert-Amyl methyl ether	ND	ug/L	10		1	01/03/15	01/03/15 23:42	1011
tert-Amyl alcohol	ND	ug/L	20		1	01/03/15	01/03/15 23:42	1011
Ethylbenzene	ND	ug/L	1.0		1	01/03/15	01/03/15 23:42	1011
m&p-Xylene	ND	ug/L	2.0		1	01/03/15	01/03/15 23:42	1011
o-Xylene	ND	ug/L	1.0		1	01/03/15	01/03/15 23:42	1011
Naphthalene	ND	ug/L	1.0		1	01/03/15	01/03/15 23:42	1011

Case Narrative Summary

Client Name: AECOM

Project Name: 7-11 Store 32785

Work Order Number(s): 14123005
Project ID: 60144916

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

The analyses of chlorine, pH, dissolved oxygen, temperature and sulfite for drinking water and non-potable samples tested for compliance have a maximum holding time of 15 minutes. As such, all laboratory analyses for these analytes exceed holding times.

Sample Receipt:

Sample(s) received at 0 degrees but no samples were frozen.

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.

Analytical Data Package Information Summary

Work Order(s): 14123005
Report Prepared For: AECOM, Beltsville, MD
Project Name: 7 Eleven - gen'l
Project Manager: John Canzeri

Method	Client Sample Id	Analysis Type	Lab Sample Id	Analyst	Mtx	Prep Batch	Analytical Batch	Sampled	Prepared	Analyzed
SW-846 8015C	GAC-2 FINAL	Initial	14123005-001	1035	W	53655	119450	12/29/2014	12/30/2014 15:18	12/30/2014 17:52
	53655-2-BKS	BKS	53655-2-BKS	1035	W	53655	119450	--------	12/30/2014 15:18	12/30/2014 17:01
	53655-2-BLK	BLK	53655-2-BLK	1035	W	53655	119450	--------	12/30/2014 15:18	12/30/2014 16:35
	GAC-2 FINAL S	MS	14123005-001 S	1035	W	53655	119450	12/29/2014	12/30/2014 15:18	12/31/2014 10:36
	GAC-2 FINAL SD	MSD	14123005-001 SD	1035	W	53655	119450	12/29/2014	12/30/2014 15:18	12/31/2014 11:02
SW-846 8260 B	GAC-2 FINAL	Initial	14123005-001	1011	W	53678	119484	12/29/2014	01/03/2015 19:03	01/03/2015 23:42
	53678-1-BKS	BKS	53678-1-BKS	1011	W	53678	119484	--------	01/03/2015 19:03	01/03/2015 20:48
	53678-1-BLK	BLK	53678-1-BLK	1011	W	53678	119484	--------	01/03/2015 19:03	01/03/2015 21:57
	GAC-2 FINAL S	MS	14123005-001 S	1011	W	53678	119484	12/29/2014	01/03/2015 19:03	01/04/2015 00:52
	GAC-2 FINAL SD	MSD	14123005-001 SD	1011	W	53678	119484	12/29/2014	01/03/2015 19:03	01/04/2015 01:27

PHASE SEPARATION SCIENCE, INC.

QC Summary 14123005

AECOM
7-11 Store 32785

Analytical Method: SW-846 8015C Prep Method: SW5030B
Seq Number: 119450 Matrix: Ground Water Date Prep: 12/30/2014
PSS Sample ID: 14123005-001

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	81		65-111	%	12/30/14 17:52

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 119484 Matrix: Ground Water Date Prep: 01/03/2015
PSS Sample ID: 14123005-001

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	107		81-133	%	01/03/15 23:42
Dibromofluoromethane	102		84-110	%	01/03/15 23:42
Toluene-D8	99		94-109	%	01/03/15 23:42

F = RPD exceeded the laboratory control limits
X = Recovery of MS, MSD or both outside of QC Criteria
H= Recovery of BS,BSD or both exceeded the laboratory control limits
L = Recovery of BS,BSD or both below the laboratory control limits

PHASE SEPARATION SCIENCE, INC.

QC Summary 14123005

AECOM
7-11 Store 32785

Analytical Method: SW-846 8015C Prep Method: SW5030B
Seq Number: 119450 Matrix: Water Date Prep: 12/30/14
MB Sample Id: 53655-2-BLK LCS Sample Id: 53655-2-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
TPH-GRO (Gasoline Range Organic:	<100	5000	4408	88	61-138	ug/L	12/30/14 17:01	

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	85		117	*	65-111	%	12/30/14 17:01

Analytical Method: SW-846 8015C Prep Method: SW5030B
Seq Number: 119450 Matrix: Ground Water Date Prep: 12/30/14
Parent Sample Id: 14123005-001 MS Sample Id: 14123005-001 S MSD Sample Id: 14123005-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
TPH-GRO (Gasoline Range Organic:	<100	5000	3817	76	3662	73	58-136	4	25	ug/L	12/31/14 10:36	

Surrogate	MS Result	MS Flag	MSD Result	MSD Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	91		111		65-111	%	12/31/14 10:36

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 119484 Matrix: Water Date Prep: 01/03/15
MB Sample Id: 53678-1-BLK LCS Sample Id: 53678-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
tert-Butanol	<20.00	50.00	50.22	100	15-150	ug/L	01/03/15 20:48	
Methyl-t-Butyl Ether	<1.000	50.00	53.38	107	30-168	ug/L	01/03/15 20:48	
Benzene	<1.000	50.00	51.54	103	77-122	ug/L	01/03/15 20:48	
Toluene	<1.000	50.00	51.24	102	77-123	ug/L	01/03/15 20:48	
tert-Amyl ethyl ether	<10.00	50.00	53.28	107	60-121	ug/L	01/03/15 20:48	
tert-Butyl ethyl ether	<10.00	50.00	52.79	106	62-137	ug/L	01/03/15 20:48	
Diisopropyl ether	<10.00	50.00	54.47	109	48-146	ug/L	01/03/15 20:48	
tert-Amyl methyl ether	<10.00	50.00	53.61	107	61-129	ug/L	01/03/15 20:48	
tert-Amyl alcohol	<20.00	50.00	55.56	111	27-139	ug/L	01/03/15 20:48	
Ethylbenzene	<1.000	50.00	51.05	102	79-122	ug/L	01/03/15 20:48	
m&p-Xylene	<2.000	100	100.2	100	78-119	ug/L	01/03/15 20:48	
o-Xylene	<1.000	50.00	50.20	100	79-123	ug/L	01/03/15 20:48	
Naphthalene	<1.000	50.00	49.31	99	46-154	ug/L	01/03/15 20:48	

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	106		97		81-133	%	01/03/15 20:48
Dibromofluoromethane	101		101		84-110	%	01/03/15 20:48
Toluene-D8	99		99		94-109	%	01/03/15 20:48

PHASE SEPARATION SCIENCE, INC.

QC Summary 14123005

AECOM
7-11 Store 32785

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 119484 Matrix: Ground Water Date Prep: 01/03/15
Parent Sample Id: 14123005-001 MS Sample Id: 14123005-001 S MSD Sample Id: 14123005-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
tert-Butanol	<20.00	50.00	51.86	104	46.09	92	1-183	12	25	ug/L	01/04/15 00:52	
Methyl-t-Butyl Ether	<1.000	50.00	51.73	103	49.74	99	22-182	4	25	ug/L	01/04/15 00:52	
Benzene	<1.000	50.00	49.88	100	46.57	93	75-132	7	25	ug/L	01/04/15 00:52	
Toluene	<1.000	50.00	50.09	100	46.18	92	74-132	8	25	ug/L	01/04/15 00:52	
tert-Amyl ethyl ether	<10.00	50.00	50.06	100	47.52	95	48-129	5	25	ug/L	01/04/15 00:52	
tert-Butyl ethyl ether	<10.00	50.00	50.77	102	48.14	96	55-141	5	25	ug/L	01/04/15 00:52	
Diisopropyl ether	<10.00	50.00	52.71	105	49.54	99	49-150	6	25	ug/L	01/04/15 00:52	
tert-Amyl methyl ether	<10.00	50.00	50.34	101	48.17	96	50-139	4	25	ug/L	01/04/15 00:52	
tert-Amyl alcohol	<20.00	50.00	52.22	104	50.30	101	5-149	4	25	ug/L	01/04/15 00:52	
Ethylbenzene	<1.000	50.00	49.17	98	46.07	92	74-129	7	25	ug/L	01/04/15 00:52	
m&p-Xylene	<2.000	100	97.18	97	90.27	90	78-119	7	25	ug/L	01/04/15 00:52	
o-Xylene	<1.000	50.00	48.51	97	44.79	90	80-123	8	25	ug/L	01/04/15 00:52	
Naphthalene	<1.000	50.00	47.08	94	46.08	92	7-137	2	25	ug/L	01/04/15 00:52	

Surrogate	MS Result	MS Flag	MSD Result	MSD Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	96		99		81-133	%	01/04/15 00:52
Dibromofluoromethane	102		102		84-110	%	01/04/15 00:52
Toluene-D8	99		99		94-109	%	01/04/15 00:52

F = RPD exceeded the laboratory control limits
X = Recovery of MS, MSD or both outside of QC Criteria
H= Recovery of BS,BSD or both exceeded the laboratory control limits
L = Recovery of BS,BSD or both below the laboratory control limits

SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

PHASE SEPARATION SCIENCE, INC.

www.phaseonline.com
email: info@phaseonline.com

(1)

*CLIENT: AECOM *OFFICE LOC. Beltsville, MD

*PROJECT MGR: J. Canzeri *PHONE NO.: (301) 289 3805

EMAIL: FAX NO.: ( )

*PROJECT NAME: 7-11 Store 32785 PROJECT NO. 60014916

SITE LOCATION: Hampstead, MD P.O. NO.: 45814ACM

SAMPLER(S): M. Parsons DW CERT NO.:

PSS Work Order #: 14123005 PAGE 1 OF 1

Matrix Codes: **SW**=Surface Wtr **DW**=Drinking Wtr **GW**=Ground Wtr **WW**=Waste Wtr **O**=Oil **S**=Soil **L**=Liquid **SOL**=Solid **A**=Air **WI**=Wipe

(2)

LAB NO.	*SAMPLE IDENTIFICATION	*DATE (SAMPLED)	*TIME (SAMPLED)	MATRIX (See Codes)	No. CONTAINERS	SAMPLE TYPE C = COMP G = GRAB	BTEX + oxy 8260	Naphthalene	TPH-GRO 8015	REMARKS
	Preservatives Used						HCl	HCl	HCl	
	Analysis/ Method Required (3) *									
1	GAC-2 FINAL	12/29/14	1605	GW	6	G	✓	✓	✓	

(5)

Relinquished By:	Date	Time	Received By:
(1) M. Parsons	12-30-14	1027	S. Rivera
(2)			
(3)			
(4)			

(4)

*Requested TAT (One TAT per COC): ☐ 5-Day ☐ 3-Day ☐ 2-Day ☐ Next Day ☐ Emergency ☐ Other

Data Deliverables Required: COA ☑ QC SUMM ☐ CLP LIKE ☐ OTHER ____

Special Instructions:

DW COMPLIANCE? YES ☐

EDD FORMAT TYPE: AECOM

STATE RESULTS REPORTED TO: MD ☑ DE ☐ PA ☐ VA ☐ WV ☐ OTHER ____

# of Coolers: 1

Custody Seal: ABS

Ice Present: PRES Temp: 0°C NOT FROZEN

Shipping Carrier: CLIENT

6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723

The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary. * = REQUIRED

Phase Separation Science, Inc

Sample Receipt Checklist

Work Order #	14123005	**Received By**	Shirley Rivera
Client Name	AECOM	**Date Received**	12/30/2014 10:27:00 AM
Project Name	7-11 Store 32785	**Delivered By**	Client
Project Number	60144916	**Tracking No**	Not Applicable
Disposal Date	02/03/2015	**Logged In By**	Rachel Davis

Shipping Container(s)

No. of Coolers 1

		Ice	Present
Custody Seal(s) Intact?	N/A	Temp (deg C)	0
Seal(s) Signed / Dated?	N/A	Temp Blank Present	No

Documentation

		Sampler Name	Mike Parsons
COC agrees with sample labels?	Yes	MD DW Cert. No.	N/A
Chain of Custody	Yes		

Sample Container

		Custody Seal(s) Intact?	Not Applicable
Appropriate for Specified Analysis?	Yes	Seal(s) Signed / Dated	Not Applicable
Intact?	Yes		
Labeled and Labels Legible?	Yes		

Total No. of Samples Received 1

Total No. of Containers Received 6

Preservation

Metals	(pH<2)	N/A
Cyanides	(pH>12)	N/A
Sulfide	(pH>9)	N/A
TOC, COD, Phenols	(pH<2)	N/A
TOX, TKN, NH3, Total Phos	(pH<2)	N/A
VOC, BTEX (VOA Vials Rcvd Preserved)	(pH<2)	Yes
Do VOA vials have zero headspace?		Yes
624 VOC (Rcvd at least one unpreserved VOA vial)		N/A

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling. Samples which require thermal preservation shall be considered acceptable when received at a temperature above freezing to 6°C. Samples that are hand delivered on the day that they are collected may not meet these criteria but shall be considered acceptable if there is evidence that the chilling process has begun such as arrival on ice.

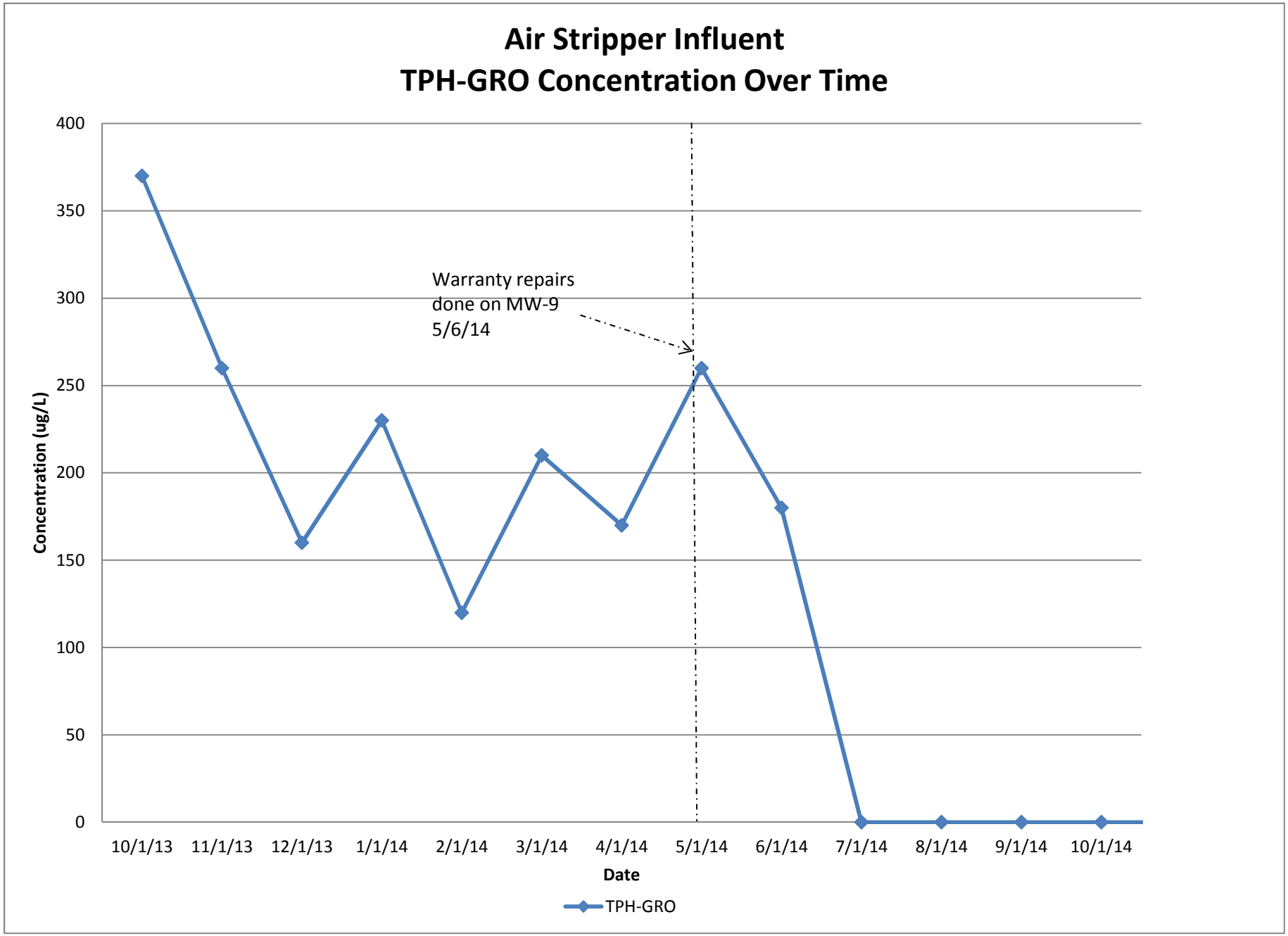
Sample(s) received at 0 degrees but no samples were frozen.

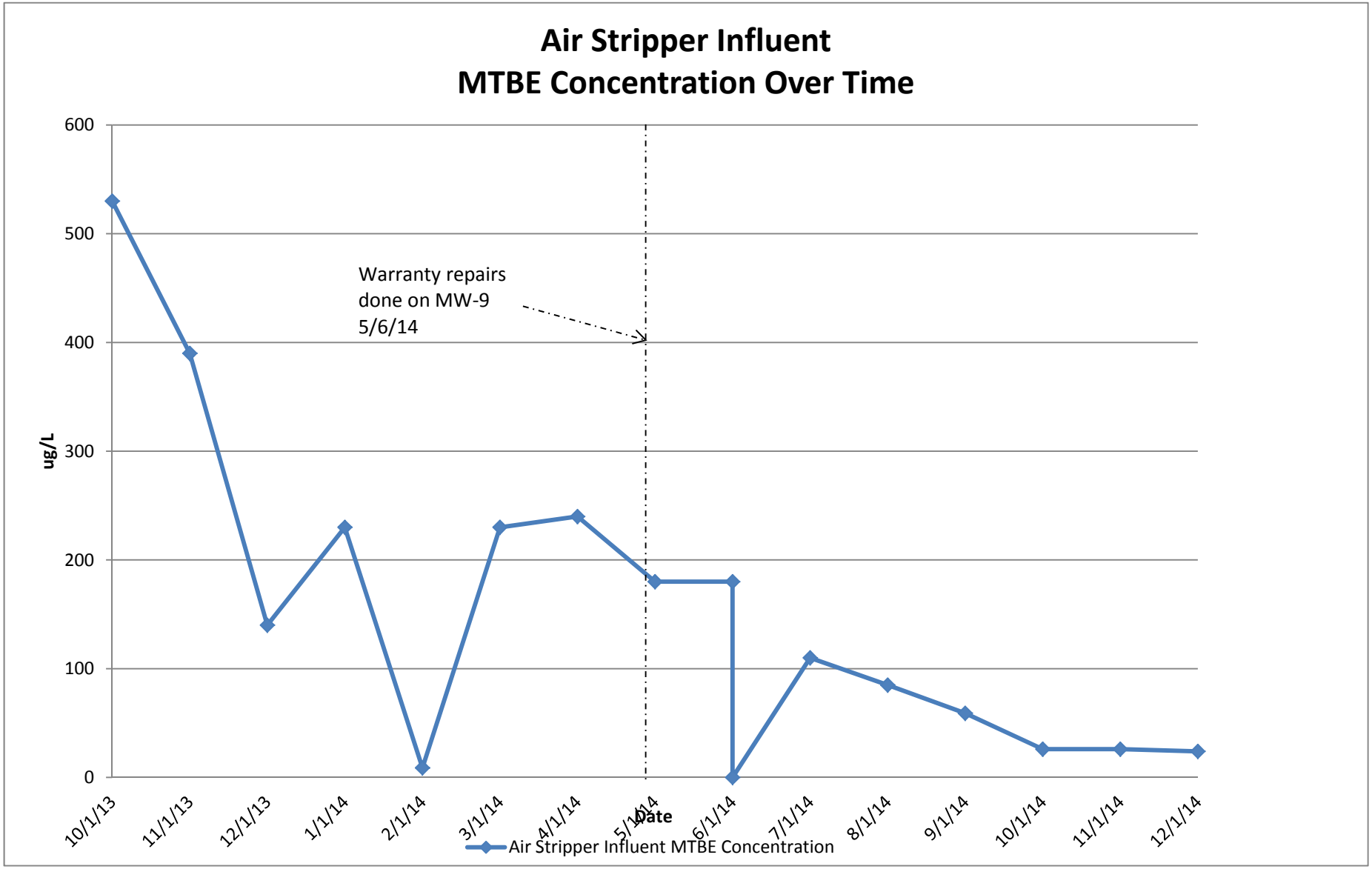
Samples Inspected/Checklist Completed By: Rachel Davis — Date: 12/30/2014

PM Review and Approval: Amy Friedlander — Date: 12/30/2014

ATTACHMENT G

Air Stripper Influent MTBE and TPH-GRO Concentration Graphs-Over-Time


Air Stripper Influent
TPH-GRO Concentration Over Time
Concentration (ug/L)
400
350
300
250
200
150
100
50
0
Warranty repairs
done on MW-9
5/6/14
10/1/13
11/1/13
12/1/13
1/1/14
2/1/14
3/1/14
4/1/14
5/1/14
6/1/14
7/1/14
8/1/14
9/1/14
10/1/14
Date
TPH-GRO


Air Stripper Influent
MTBE Concentration Over Time
600
500
400
300
200
100
0
ug/L
Warranty repairs
done on MW-9
5/6/14
10/1/13
11/1/13
12/1/13
1/1/14
2/1/14
3/1/14
4/1/14
5/1/14
6/1/14
7/1/14
8/1/14
9/1/14
10/1/14
11/1/14
12/1/14
Date
Air Stripper Influent MTBE Concentration