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October 11, 2016

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

AECOM Project #: 60338398

Subject: Third Quarter 2016 – Quarterly Monitoring Report
Compliance Reporting Date: October 11, 2016
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 Technical Services, Inc. (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 September 16, 2016. The 7-Eleven on-site potable well is sampled annually as approved by MDE and was sampled on September 27, 2016 during this period. The monitoring wells are gauged monthly and sampled quarterly; the tank field wells are sampled quarterly when sufficient water is present. 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 December 2016. Based on historical observations and analytical data, AECOM requested a change to annual sampling for the 7-Eleven potable well, which was subsequently, approved by MDE. AECOM sampled the 7-Eleven potable well on September 27, 2016; therefore, the next sampling event for the 7-Eleven potable well will be approximately September 2017.

During this monitoring period, AECOM maintained and operated the groundwater recovery system per the MDE approved Corrective Action Plan (CAP) with revisions. The system was started in October 2013; monthly system performance reports were submitted to MDE in December 2013 and January and February 2014. On February 4, 2016, AECOM began pulsing recovery wells RW-8 and MW-9 by deactivating the pumps for a period of two weeks followed by two weeks of active pumping. AECOM continued pulsing recovery wells MW-8 and MW-9 during this reporting period to aid in the recovery of dissolved-phase petroleum contaminant concentrations.

On September 28, 2016, AECOM submitted a letter to MDE on behalf of 7-Eleven requesting to deactivate the groundwater remediation system to perform a rebound assessment based on the stable and/or decreasing hydrocarbon trends that have been observed in the ten on-site monitoring wells. Upon approval of the request, AECOM will shut down the system and commence post remediation monitoring.

If you have any questions, please contact the undersigned at (301) 289-3900.

Yours sincerely,

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Attachments:

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cc: 7-Eleven Project File

QUARTERLY MONITORING REPORT- Third QUARTER 2016
7-ELEVEN STORE NO. 32785
125 Hanover Pike
Hampstead, MD
Facility ID No. 11266
Case No. 2006-0282-CL
AECOM Project 60338398

Compliance Reporting Date – October 11, 2016

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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 facility.
- 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 Maryland Department of the Environment (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, the groundwater extraction and treatment system began operations in October 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 methyl-tert-butyl ether (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, 2006, 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 volatile organic compounds (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 benzene, toluene, ethylbenzene and xylene (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.

- 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.

- On August 16, 2015, as approved by the MDE in the directive letter dated August 26, 2015, AECOM deactivated the groundwater remediation system to complete a controlled rebound assessment to evaluate the non-pumping petroleum contaminate concentrations.

- On October 7, 2015, AECOM reactivated the groundwater remediation system based on the September 23, 2015 groundwater sampling results.

- On February 4, 2016 AECOM began pulsing the recovery wells; deactivating pumps in wells MW-8 and MW-9 for two week periods to complete a rebound assessment in wells MW-8, MW-9, and MW-10.
- On September 28, 2016, AECOM submitted a letter to MDE requesting to deactivate the groundwater remediation system to perform a rebound assessment.

ACTIVITIES THIS PERIOD

Monitoring Period: July through September 2016

Site Visit(s): July 1, 13 and 14; August 1 and 16; and September 2, 3, 16 and 27, 2016

Field Activities: Activities included system operation and maintenance (O&M) visits, 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. Pulsing and sampling MW-8 and MW-9 every two weeks.

Depth-to-Water: On September 16, 2016, depth-to-water in wells not under pumping conditions ranged from 24.57 feet below ground surface (bgs) in well MW-4 to 32.60 feet bgs in well MW-7. In the three pumping wells (MW-8, MW-9, and MW-10), depth-to-water ranged from 162.20 feet bgs in well MW-9 to 182.15 feet bgs in well MW-8. 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/non-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 September 16, 2016. The two tank field wells could not be sampled because they were either dry or lacked sufficient water for sampling (**Table 2, Figure 3** and **Attachment A**).

Samples were collected from the point-of-entry treatment (POET) system of the potable well servicing 124 Hanover Pike this period on July 13, 2016 and September 27, 2016. Historical analytical results are provided in **Table 3**. No residential wells without POET systems were sampled this quarter. Historical analytical results are provided in **Table 4**.

ANALYTICAL SUMMARY

Groundwater

Groundwater samples were collected on September 16, 2016 from the ten on-site monitoring wells. Groundwater samples from the wells were analyzed for total volatile organic compounds (VOCs), BTEX and oxygenates, including MTBE, tert-Butyl alcohol (TBA) and tert-Amyl methyl ether (TAME) by EPA Method 8260, and total petroleum hydrocarbon – gasoline range organics (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 3.3 µg/l was reported in monitoring well MW-8 (pumping well), a slight decrease from 4.9 µg/l during the last reporting period. A dissolved-phase MTBE concentration of 17 µg/l was reported in monitoring well MW-9, the lowest detected concentration since June 2010. Monitoring wells MW-8 and MW-9 both reported a TPH-GRO concentration below detection limits. All remaining analytes in the pumping wells reported concentrations below detection limits.

All analytes reported concentrations below detection limits in monitoring well MW-10. This represents the eleventh such occurrence since December 2013.

Monitoring well MW-2 reported all analytes below detection limit for the first time since May 2009. Monitoring well MW-5 reported a MTBE concentration of 2.2 µg/l during this reporting period, which is stable compared to the detections of 2.1 µg/l and 2.2 µg/l observed during the previous two quarters.

A dissolved-phase MTBE concentration of 23.8 µg/l was reported in monitoring well MW-6, which represents a decrease from the last reporting period (29.9 µg/l). The concentrations in MW-6 have displayed an overall decreasing trend since December 2013. All remaining analytes reported concentrations below detection limits.

No other VOCs were detected above laboratory detection limits in the monitoring wells. Summary and laboratory reports are included as **Figure 3**, **Table 2**, and **Attachment A**. MTBE concentration trend graphs are provided as **Attachment B**.

7-Eleven Potable Well

Annual sampling of the on-site potable well was conducted on September 27, 2016. All analytes reported concentrations below detection limits. The analytical data is summarized in **Table 2** and the laboratory analytical report is included as **Attachment C**.

Residential Treatment Potable Well

Samples were collected from the POET system of the potable well servicing 124 Hanover Pike this quarter on July 13, 2016 and September 27, 2016. The system is sampled bimonthly (pre-, mid-, and final effluent); the samples are analyzed for total VOCs plus oxygenates via EPA Method 524.2. 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. Historically, no VOCs, including MTBE, have been detected above laboratory detection limits in the final effluent. Residential treatment well sampling results are included in **Table 3** and **Attachment D**. A graph

depicting influent MTBE concentrations in the potable well located at 124 Hanover Pike over time is provided as **Attachment E**.

Residential Non-Treatment Potable Wells

No other residential wells were sampled during this quarter. Residential potable well historical 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 of 180 feet (ft), 185 ft, and 185 ft from the top-of-casing, 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 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.

In accordance with the MDE directive letter dated August 26, 2015, AECOM deactivated the groundwater treatment system in order to complete a controlled rebound assessment to evaluate the non-pumping petroleum contaminant concentrations. Due to the elevated concentrations of MTBE in the samples collected on September 23, 2015, AECOM reactivated the groundwater treatment system on October 7, 2015.

Based upon evaluation of the system deactivation from August 26, 2015 to September 23, 2015 and the elevated MTBE concentrations, AECOM began pulsing recovery wells MW-8 and MW-9 by deactivating the pumps for two week periods on February 4, 2016. This pulsing approach allows for groundwater recharge and a flushing of potential petroleum compounds in the soil column above the areas that are dewatered during continuous operation of the recovery wells. Samples are collected from MW-8, MW-9 and MW-10 before and after each two week pulsing period. Groundwater analytical results since the initial deactivation in August 2015 are included as **Table 5** and MTBE concentration graphs since initial remediation system start-up are provided as **Attachment B**.

The remediation system was initially started on October 8, 2013 and a total of 6,744,227 gallons of treated groundwater have been discharged, 597,850 of which were discharged from the system during this reporting period (July through September 2016). The remediation system was operational for 100% of the time during this reporting period. Full system performance data is provided in **Table 6** and a summary of quarterly system performance data is displayed in the table on the following page.

	MW-8		MW-9		MW-10	
	Average Pumping Rate (GPM)	Gallons Recovered	Average Pumping Rate (GPM)	Gallons Recovered	Average Pumping Rate (GPM)	Gallons Recovered
Q4-2013	1.15	137,828	0.24	26,235	2.30	332,092
Q1-2014	0.90	108,866	0.01	1,158	3.30	389,494
Q2-2014	0.87	104,407	0.24	22,867	3.11	399,438
Q3-2014	0.83	100,511	0.31	36,908	3.13	374,051
Q4-2014	0.76	114,120	0.29	43,668	3.38	504,232
Q1-2015	0.68	83,938	0.24	30,054	3.62	444,593
Q2-2015	0.65	84,683	0.25	36,558	3.71	535,796
Q3-2015	0.42	47,837	0.17	19,887	2.78	325,970
Q4-2015	0.56	59,981	0.28	30,427	3.86	436,601
Q1-2016	0.38	50,628	0.21	28,987	4.56	595,612
Q2-2016	0.49	34,010	0.29	20,556	4.60	594,517
Q3-2016	0.50	37,510	0.34	19,867	4.42	530,340
Totals:	0.68	964,319	0.24	317,172	3.56	5,462,736

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

Depth-to-water during this quarter in monitoring well MW-8 ranged from 32.66 feet bgs on July 14, 2016 while the pump was deactivated to 182.15 feet bgs on September 16, 2016 under pumping conditions. Depth-to-water during this quarter in monitoring well MW-9 ranged from 71.60 feet bgs on August 16, 2016 while the pump was deactivated to 162.20 feet bgs on September 16, 2016 under pumping conditions. Depth-to-water during this quarter in monitoring well MW-10 ranged from 175.45 feet bgs on August 16, 2016 to 177.25 feet bgs on September 16, 2016. Groundwater drawdown graphs of the pumping wells MW-8, MW-9 and MW-10) are provided in **Attachment F**.

Groundwater Treatment System Analytical Summary

Air stripper influent and effluent samples, GAC 1 effluent samples, and GAC 2 system final effluent samples were collected and submitted for laboratory analysis on July 1 and 14, 2016, August 1 and 16, 2016, and September 3 and 16, 2016. These six sampling events revealed air stripper influent MTBE concentrations of 1.34 µg/l, non-detect, 1.84 µg/l, non-detect, 16.9 µg/l, and non-detect, respectively. All remaining analytes in the air stripper influent and all analytes in the air stripper effluent, GAC 1 effluent, and system final effluent revealed concentrations below detection limits during the six sampling events this quarter.

A summary of the analytical results are provided in **Table 7**. Laboratory reports are provided in **Attachment G**. Graphs depicting the air stripper MTBE and TPH-GRO concentrations over time are provided in **Attachment H**.

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. Stable trends are now observed in monitoring wells MW-1, MW-2 and MW-5, and MTBE continues to remain below the detection limit (BDL) in monitoring wells MW-3, MW-4, MW-7 and MW-10. Additionally, decreasing trends are observed in monitoring wells MW-6, MW-8 and MW-9. All wells reported TPH-GRO concentrations below detection limits. All dissolved-phase gasoline compounds in bedrock well MW-7 have reported concentrations below detection limits during this quarter and each of the last nine

quarters. All dissolved-phase gasoline compounds in bedrock well MW-10 have reported concentrations below detection limits during this quarter and eleven of the last twelve quarters. Bedrock well MW-8 revealed a slight decrease in MTBE concentration this quarter (3.3 µg/l) and has shown an overall decreasing trend since June 2011. MTBE concentrations in bedrock well MW-9 have displayed an overall decrease since March 2014, dropping more than 98% from 3,500 µg/l in March 2014 to 17 µg/l during this reporting period. Furthermore, MTBE influent concentrations in the potable well servicing 124 Hanover Pike were below detection limits for the eighth consecutive quarter.

As proposed in the site Corrective Action Plan dated December 21, 2012 and approved by Maryland Department of the Environment (MDE) on February 20, 2013, the dissolved-phase hydrocarbon remedial goal is met when the recovery rate from the groundwater treatment system has achieved asymptotic levels and dissolved-phase hydrocarbon trends are stable and/or decreasing in the monitoring wells. Based on the stable and decreasing trends observed, AECOM is requesting, on behalf of 7-Eleven, to deactivate the remediation system in order to conduct a rebound assessment as detailed in the letter submitted to MDE on September 28, 2016. Upon approval by MDE, AECOM will shut down the system and commence post remediation monitoring which will include monthly sampling of all ten on-site monitoring wells and the point of entry (POET) system located at 124 Hanover Pike.

ACTIVITIES FOR THE THIRD QUARTER 2016

- October 2016 – 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. Pending MDE approval of the rebound assessment, the remediation system will be deactivated and monthly post remediation monitoring will commence.

- November 2016 – Complete carbon change of 124 Hanover Pike potable well treatment system as necessary; conduct monthly well gauging. Pending MDE approval of the rebound assessment, monthly post remediation monitoring will be conducted.

- December 2016 – Conduct quarterly gauging and sampling of monitoring and tank field wells. Complete carbon change of 124 Hanover Pike potable well treatment system as necessary; conduct monthly well gauging. Pending MDE approval of the rebound assessment, monthly post remediation monitoring will be conducted.

TABLES

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

Well	Top of Casing	Date	Depth to Water (ft bgs)	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	--
		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	34.30	62.24
		1/23/15	23.89	72.65
		2/25/15	NA	--
		3/16/15	22.88	73.66
		4/21/15	23.75	72.79
		5/31/15	24.72	71.82
		6/22/15	23.68	72.86
		7/22/15	24.56	71.98
		8/28/15	26.76	69.78
		9/23/15	26.81	69.73
		10/20/15	25.65	70.89
		11/16/15	24.42	72.12
		12/16/15	24.76	71.78
		1/20/16	22.76	73.78
		2/4/16	NG	NG
		3/4/16	20.25	76.29
		4/20/16	21.75	74.79
		5/19/16	22.70	73.84
		6/2/16	23.24	73.30
		7/14/16	22.64	73.90
		8/16/16	24.18	72.36
		9/16/16	26.53	70.01

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

Well	Top of Casing	Date	Depth to Water (ft bgs)	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
		1/23/15	29.95	66.59
		2/25/15	30.05	66.49
		3/16/15	29.59	69.08
		4/21/15	29.30	69.37
		5/31/15	30.91	67.76
		6/22/15	30.54	68.13
		7/22/15	29.63	69.04
		8/28/15	31.11	67.56
		9/23/15	31.20	67.47
		10/20/15	32.24	66.43
		11/16/15	32.22	66.45
		12/16/15	32.22	66.45
		1/20/16	31.30	67.37
		2/4/16	31.15	67.52
		3/4/16	29.21	69.46
		4/20/16	28.20	70.47
		5/19/16	28.66	70.01
		6/2/16	30.29	68.38
		7/14/16	29.53	69.14
		8/16/16	30.25	68.42
		9/16/16	31.91	66.76

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

Well	Top of Casing	Date	Depth to Water (ft bgs)	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
		1/23/15	22.50	75.01
		2/25/15	NA	--
		3/16/15	19.77	77.74
		4/21/15	20.96	76.55
		5/31/15	22.03	75.48
		6/22/15	21.21	76.30
		7/22/15	22.39	75.12
		8/28/15	29.29	68.22
		9/23/15	29.36	68.15
		10/20/15	25.92	71.59
		11/16/15	23.82	73.69
		12/16/15	24.48	73.03
		1/20/16	22.63	74.88
		2/4/16	NG	NG
		3/4/16	20.69	76.82
		4/20/16	21.18	76.33
		5/19/16	21.46	76.05
		6/2/16	21.33	76.18
		7/14/16	21.76	75.75
		8/16/16	22.33	75.18
		9/16/16	26.15	71.36

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

Well	Top of Casing	Date	Depth to Water (ft bgs)	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
		1/23/15	23.13	73.17
		2/25/15	23.91	72.39
		3/16/15	21.18	75.12
		4/21/15	23.00	73.30
		5/31/15	24.41	71.89
		6/22/15	23.52	72.78
		7/22/15	24.21	72.09
		8/28/15	27.52	68.78
		9/23/15	27.63	68.67
		10/20/15	24.50	71.80
		11/16/15	22.87	73.43
		12/16/15	23.27	73.03
		1/20/16	21.55	74.75
		2/4/16	21.01	75.29
		3/4/16	19.36	76.94
		4/20/16	21.24	75.06
		5/19/16	22.31	73.99
		6/2/16	22.27	74.03
		7/14/16	22.80	73.50
		8/16/16	24.11	72.19
		9/16/16	24.57	71.73

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

Well	Top of Casing	Date	Depth to Water (ft bgs)	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
		1/23/15	28.78	69.57
		2/25/15	29.22	69.13
		3/16/15	28.00	70.35
		4/21/15	28.69	69.66
		5/31/15	30.92	67.43
		6/22/15	29.10	69.25
		7/22/15	29.25	69.10
		8/28/15	30.33	68.02
		9/23/15	30.67	67.68
		10/20/15	31.25	67.10
		11/16/15	30.78	67.57
		12/16/15	30.91	67.44
		1/20/16	NG	NG
		2/4/16	29.62	68.73
		3/4/16	27.41	70.94
		4/20/16	26.80	71.55
		5/19/16	27.27	71.08
		6/2/16	27.90	70.45
		7/14/16	NG	NG
		8/16/16	28.03	70.32
		9/16/16	30.92	67.43

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

Well	Top of Casing	Date	Depth to Water (ft bgs)	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
		1/23/15	25.57	70.17
		2/25/15	26.02	69.72
		3/16/15	24.15	71.59
		4/21/15	24.77	70.97
		5/31/15	26.15	69.59
		6/22/15	25.34	70.40
		7/22/15	25.76	69.98
		8/28/15	28.18	67.56
		9/23/15	28.81	66.93
		10/20/15	27.97	67.77
		11/16/15	26.70	69.04
		12/16/15	26.95	68.79
		1/20/16	25.55	70.19
		2/4/16	25.34	70.40
		3/4/16	23.20	72.54
		4/20/16	23.56	72.18
		5/19/16	24.11	71.63
		6/2/16	24.51	71.23
		7/14/16	24.50	71.24
		8/16/16	25.48	70.26
		9/16/16	27.82	67.92

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

Well	Top of Casing	Date	Depth to Water (ft bgs)	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
		1/23/15	29.76	65.95
		2/25/15	29.17	66.54
		3/16/15	29.05	66.66
		4/21/15	27.25	68.46
		5/31/15	31.29	64.42
		6/22/15	30.21	65.50
		7/22/15	30.35	65.36
		8/28/15	29.19	66.52
		9/23/15	29.90	65.81
		10/20/15	32.23	63.48
		11/16/15	31.99	63.72
		12/16/15	32.00	63.71
		1/20/16	30.94	64.77
		2/4/16	30.87	64.84
		3/4/16	28.74	66.97
		4/20/16	27.80	67.91
		5/19/16	28.33	67.38
		6/2/16	29.94	65.77
		7/14/16	29.03	66.68
		8/16/16	29.63	66.08
		9/16/16	32.60	63.11

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

Well	Top of Casing	Date	Depth to Water (ft bgs)	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	**
		1/23/15	159.91	**
		2/25/15	181.20	**
		3/16/15	182.27	**
		4/21/15	155.27	**
		5/31/15	167.31	**
		6/22/15	169.65	**
		7/22/15	183.12	**
		8/28/15	128.06	**
		9/23/15	28.70	68.27
		10/20/15	181.35	**
		11/16/15	182.40	**
		12/16/15	175.22	**
		1/20/16	165.70	**
		2/4/16	NG	NG
		3/4/16	103.00	**
		4/20/16	33.29	63.68
		5/19/16	32.66	64.31
		6/2/16	182.70	**
		7/14/16	32.66	64.31
		8/16/16	33.21	63.76
		9/16/16	182.15	**

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

Well	Top of Casing	Date	Depth to Water (ft bgs)	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	**
		1/23/15	140.81	**
		2/25/15	139.63	**
		3/16/15	138.27	**
		4/21/15	137.41	**
		5/31/15	149.89	**
		6/22/15	150.44	**
		7/22/15	149.32	**
		8/28/15	157.94	**
		9/23/15	28.56	68.70
		10/20/15	161.90	**
		11/16/15	160.41	**
		12/16/15	156.65	**
		1/20/16	154.64	**
		2/4/16	153.88	**
		3/4/16	133.00	**
		4/20/16	65.53	31.73
		5/19/16	66.51	30.75
		6/2/16	157.15	**
		7/14/16	79.99	17.27
		8/16/16	71.60	25.66
		9/16/16	162.20	**

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

Well	Top of Casing	Date	Depth to Water (ft bgs)	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	**
		1/23/15	131.13	**
		2/25/15	135.74	**
		3/16/14	134.02	**
		4/21/15	140.50	**
		5/31/15	145.23	**
		6/22/15	147.75	**
		7/22/15	101.09	**
		8/28/15	149.37	**
		9/23/15	29.72	66.68
		10/20/15	174.02	**
		11/16/15	175.48	**
		12/16/15	175.90	**
		1/20/16	173.50	**
		2/4/16	174.80	**
		3/4/16	134.00	**
		4/20/16	156.40	**
		5/19/16	173.10	**
		6/2/16	175.70	**
		7/14/16	175.71	**
		8/16/16	175.45	**
		9/16/16	177.25	**

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

Well	Top of Casing	Date	Depth to Water (ft bgs)	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 of Monitoring Wells
7-Eleven Store No. 32785
Hampstead, Maryland

Well	Top of Casing	Date	Depth to Water (ft bgs)	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 of Monitoring Wells
7-Eleven Store No. 32785
Hampstead, Maryland

Well	Top of Casing	Date	Depth to Water (ft bgs)	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
ft bgs - feet below ground surface
NI - not installed
NG - not gauged
NA - Frozen access
** represents well is under pumping conditions

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

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (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
	3/16/15	ND@1	ND@1	ND@1	ND@2	ND	2.3	ND@10	ND@1	ND@100	NA
	6/22/15	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	7/22/15	ND@1	ND@1	ND@1	ND@3	ND	1.8	ND@10	ND@1	ND@100	NA
	9/23/15	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	12/16/15	ND@1	ND@1	ND@1	ND@3	ND	6.6	ND@10	ND@1	ND@100	NA
	3/4/16	ND@1	ND@1	ND@1	ND@3	ND	1.7	ND@10	ND@1	ND@100	NA
	6/2/16	ND@1	ND@1	ND@1	ND@3	ND	2.5	ND@10	ND@1	ND@100	NA
	9/16/16	ND@1	ND@1	ND@1	ND@3	ND	5.1	ND@10	ND@1	ND@100	NA

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

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (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-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
	3/16/14	ND@1	ND@1	ND@1	ND@2	ND	4.9	ND@10	ND@1	ND@100	NA
	6/22/15	ND@1	ND@1	ND@1	ND@3	ND	5.2	ND@10	ND@1	ND@100	NA
	7/22/15	ND@1	ND@1	ND@1	ND@3	ND	5.5	ND@10	ND@1	ND@100	NA
	9/23/15	ND@1	ND@1	ND@1	ND@3	ND	2.4	ND@10	ND@1	ND@100	NA
	12/16/15	ND@1	ND@1	ND@1	ND@3	ND	4.3	ND@10	ND@1	ND@100	NA
	3/4/16	ND@1	ND@1	ND@1	ND@3	ND	3.8	ND@10	ND@1	ND@100	NA
	6/2/16	ND@1	ND@1	ND@1	ND@3	ND	1.8	ND@10	ND@1	ND@100	NA
	9/16/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA

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

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (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-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
	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
	3/16/15	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	6/22/15	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	7/22/15	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	9/23/15	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	12/16/15	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	3/4/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	6/2/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	9/16/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA

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

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (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-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
	3/16/14	ND@1	ND@1	ND@1	ND@2	ND	ND@1	ND@10	ND@1	ND@100	NA
	6/22/15	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	7/22/15	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	9/23/15	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	12/16/15	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	3/4/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	6/2/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	9/16/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA

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

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (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-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
	3/16/15	ND@1	ND@1	ND@1	ND@2	ND	4.7	ND@10	ND@1	ND@100	NA
	6/22/15	ND@1	ND@1	ND@1	ND@3	ND	6.2	ND@10	ND@1	ND@100	NA
	7/22/15	ND@1	ND@1	ND@1	ND@3	ND	7.5	ND@10	ND@1	ND@100	NA
	9/23/15	ND@1	ND@1	ND@1	ND@3	ND	7.2	ND@10	ND@1	ND@100	NA
	12/16/15	ND@1	ND@1	ND@1	ND@3	ND	6.5	ND@10	ND@1	ND@100	NA
	3/4/16	ND@1	ND@1	ND@1	ND@3	ND	2.2	ND@10	ND@1	ND@100	NA
	6/2/16	ND@1	ND@1	ND@1	ND@3	ND	2.1	ND@10	ND@1	ND@100	NA
	9/16/16	ND@1	ND@1	ND@1	ND@3	ND	2.2	ND@10	ND@1	ND@100	NA

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

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (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
	3/16/15	ND@1	ND@1	ND@1	ND@2	ND	**78**	ND@10	ND@1	ND@100	NA
	6/22/15	ND@1	ND@1	ND@1	ND@3	ND	**196**	ND@10	1.23	ND@100	NA
	7/22/15	ND@1	ND@1	ND@1	ND@3	ND	**200**	ND@10	1.61	ND@100	NA
	9/23/15	ND@1	ND@1	ND@1	ND@3	ND	**139**	ND@10	1.11	**125**	NA
	12/16/15	ND@1	ND@1	ND@1	ND@3	ND	**82.2**	ND@10	ND@1	ND@100	NA
	3/4/16	ND@1	ND@1	ND@1	ND@3	ND	**36.6**	ND@10	ND@1	ND@100	NA
	6/2/16	ND@1	ND@1	ND@1	ND@3	ND	**29.9**	ND@10	ND@1	ND@100	NA
	9/16/16	ND@1	ND@1	ND@1	ND@3	ND	**23.8**	ND@10	ND@1	ND@100	NA

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

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (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-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
	3/16/15	ND@1	ND@1	ND@1	ND@2	ND	ND@1	ND@10	ND@1	ND@100	NA
	6/22/15	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	7/22/15	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	9/23/15	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	12/16/15	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	3/4/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	6/2/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	9/16/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA

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

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (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-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
	3/16/15	ND@1	ND@1	ND@1	ND@2	ND	8.1	ND@10	ND@1	ND@100	NA
	6/22/15	ND@1	ND@1	ND@1	ND@3	ND	3.5	ND@10	ND@1	ND@100	NA
	7/22/15	ND@1	ND@1	ND@1	ND@3	ND	2.5	ND@10	ND@1	ND@100	NA
	9/23/15	ND@1	ND@1	ND@1	ND@3	ND	**308**	25.1	5.86	**246**	NA
	12/16/15	ND@1	ND@1	ND@1	ND@3	ND	4.5	ND@10	ND@1	ND@100	NA
	3/4/16	ND@1	ND@1	ND@1	ND@3	ND	4.4	ND@10	ND@1	ND@100	NA
	6/2/16	ND@1	ND@1	ND@1	ND@3	ND	4.9	ND@10	ND@1	ND@100	NA
	9/16/16	ND@1	ND@1	ND@1	ND@3	ND	3.3	ND@10	ND@1	ND@100	NA

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

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (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-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
	3/16/15	ND@1	ND@1	ND@1	ND@3	ND	**426**	ND@10	3.3	**405**	NA
	6/22/15	ND@1	ND@1	ND@1	ND@3	ND	**113**	ND@10	ND@1	ND@100	NA
	7/22/15	ND@1	ND@1	ND@1	ND@3	ND	**105**	ND@10	1.1	ND@100	NA
	9/23/15	ND@1	ND@1	ND@1	ND@3	ND	**634**	31.1	12.3	**494**	NA
	12/16/15	ND@1	ND@1	ND@1	ND@3	ND	**151**	ND@10	1.6	**141**	NA
	3/4/16	ND@1	ND@1	ND@1	ND@3	ND	**104**	ND@10	ND@1	ND@100	NA
	6/2/16	ND@1	ND@1	ND@1	ND@3	ND	**55**	ND@10	ND@1	ND@100	NA
	9/16/16	ND@1	ND@1	ND@1	ND@3	ND	17	ND@10	ND@1	ND@100	NA

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

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (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
	3/16/15	ND@1	ND@1	ND@1	ND@2	ND	ND@1	ND@10	ND@1	ND@100	NA
	6/22/15	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	7/22/15	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	9/23/15	ND@1	ND@1	ND@1	ND@3	ND	1.14	ND@10	ND@1	ND@100	NA
	12/16/15	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	3/4/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	6/2/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	9/16/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA

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

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (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)
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
	10/7/15	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	ND@0.5	ND@20	ND@5	NA	NA
	9/27/16	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	ND@0.5	ND@20	ND@5	NA	NA
E 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)	Ethyl-benzene (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
	1/9/15	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	2/16/15	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	4/24/15	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	6/22/15	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	7/22/15	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	8/28/15	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	NA	ND
	9/25/15	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	NA	0.567
	11/10/15	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@10	ND@0.5	NA	ND@0.5
	1/27/16	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@10	ND@0.5	NA	ND@0.5
	3/16/16	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@10	ND@0.5	NA	ND@0.5
	5/30/16	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@10	ND@0.5	NA	ND@0.5
	7/13/16	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@10	ND@0.5	NA	ND@0.5
	9/27/16	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@10	ND@0.5	NA	ND@0.5

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

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	TPH-GRO (µg/L)	Diisopropyl Ether
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
	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
	1/9/15	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	2/16/15	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	4/24/15	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	6/22/15	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	7/22/15	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	8/28/15	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	NA	ND@5
	9/25/15	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	NA	ND@5
	11/10/15	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	NA	ND@5
	1/27/16	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	NA	ND@5
	3/16/16	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	NA	ND@5
	5/30/16	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	NA	ND@5
	7/13/16	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	0.547	ND@20	ND@5	NA	ND@5
	9/27/16	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	0.608	ND@20	ND@5	NA	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)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	TPH-GRO (µg/L)	Diisopropyl Ether
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
	4/24/15	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	6/22/15	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	7/22/15	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	8/28/15	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	NA	ND@5
	9/25/15	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	NA	ND@5
	11/10/15	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	NA	ND@5
	1/27/16	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	NA	ND@5
	3/16/16	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	NA	ND@5
	5/30/16	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	NA	ND@5
	7/13/16	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	NA	ND@5
	9/27/16	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	NA	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)	Ethyl-benzene (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
	1/9/15	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	2/16/15	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	4/24/15	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	6/22/15	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	7/22/15	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	ND@100	ND@5
	8/28/15	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	NA	ND@5
	9/25/15	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	NA	ND@5
	11/10/15	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	NA	ND@5
	1/27/16	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	NA	ND@5
	3/16/16	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	NA	ND@5
	5/30/16	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	NA	ND@5
	7/13/16	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	NA	ND@5
	9/27/16	ND@0.5	ND@0.5	ND@0.5	ND@1.5	BDL	ND@0.5	ND@20	ND@5	NA	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
TPH-GRO - Total Petroleum Hydrocarbons - Gasoline Range Organics
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
	6/29/15	NS	NS	NS	NS	NS	NS	NS	NS	NS
116 Hanover Pike	6/29/15	ND@0.5	ND@0.5	ND@0.5	ND@1.0	ND	ND@0.5	ND@10	ND@0.5	NS
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
	6/29/15	NS	NS	NS	NS	NS	NS	NS	NS	NS
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
	6/29/15	NS	NS	NS	NS	NS	NS	NS	NS	NS
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

TPH-GRO - Total Petroleum Hydrocarbons - Gasoline Range Organics

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: Pumping Wells Groundwater Analytical Results
7-Eleven Store No. 32785
Hampstead, Maryland

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (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-8	9/23/15	ND@1	ND@1	ND@1	ND@3	ND	**308**	25.1	5.86	**246**	NA
	12/16/15	ND@1	ND@1	ND@1	ND@3	ND	4.5	ND@10	ND@1	ND@100	NA
	2/4/16	ND@1	ND@1	ND@1	ND@3	ND	3.3	2.64 J	ND@1	NA	NA
	2/16/16	ND@1	ND@1	ND@1	ND@3	ND	14.7	ND@10	ND@1	ND@100	NA
	3/4/16	ND@1	ND@1	ND@1	ND@3	ND	4.4	ND@10	ND@1	ND@100	NA
	3/16/16	ND@1	ND@1	ND@1	ND@3	ND	**101**	ND@10	2.37	ND@100	NA
	4/4/16	ND@1	ND@1	ND@1	ND@3	ND	3.2	ND@10	ND@1	ND@100	NA
	4/20/16	ND@1	10.5	ND@1	ND@3	10.5	**246**	48.1	5.95	**201**	NA
	5/5/16	ND@1	ND@1	ND@1	ND@3	ND	5.6	23.7	ND@1	ND@100	NA
	5/19/16	ND@1	1.17	ND@1	ND@3	1.17	**267**	25	5.24	**264**	NA
	6/2/16	ND@1	ND@1	ND@1	ND@3	ND	4.9	ND@10	ND@1	ND@100	NA
	6/14/16	ND@1	ND@1	ND@1	ND@3	ND	**152**	18.6	3	**122**	NA
	7/14/16	ND@1	ND@1	ND@1	ND@3	ND	**178**	96.5	2.94	**172**	NA
	8/1/16	ND@1	ND@1	ND@1	ND@3	ND	4.01	ND@10	ND@1	ND@100	NA
	8/16/16	ND@1	ND@1	ND@1	ND@3	ND	**125**	ND@10	2.06	ND@100	NA
	9/3/16	ND@1	ND@1	ND@1	ND@3	ND	**84.4**	ND@10	ND@1	ND@100	NA
	9/16/16	ND@1	ND@1	ND@1	ND@3	ND	3.3	ND@10	ND@1	ND@100	NA
MW-9	9/23/15	ND@1	ND@1	ND@1	ND@3	ND	**634**	31.1	12.3	**494**	NA
	12/16/15	ND@1	ND@1	ND@1	ND@3	ND	**151**	ND@10	1.6	**141**	NA
	2/4/16	ND@1	ND@1	ND@1	ND@3	ND	**72.9**	7.35	0.464 J	NA	NA
	2/16/16	ND@1	ND@1	ND@1	ND@3	ND	**180**	16.3	4.6	**115**	NA
	3/4/16	ND@1	ND@1	ND@1	ND@3	ND	**104**	ND@10	ND@1	ND@100	NA
	3/16/16	ND@1	ND@1	ND@1	ND@3	ND	**48.3**	ND@10	1.44	ND@100	NA
	4/4/16	ND@1	ND@1	ND@1	ND@3	ND	**48.4**	ND@10	ND@1	ND@100	NA
	4/20/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	5/5/16	ND@1	ND@1	ND@1	ND@3	ND	**71.4**	ND@10	ND@1	ND@100	NA
	5/19/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	6/2/16	ND@1	ND@1	ND@1	ND@3	ND	**54.5**	ND@10	ND@1	ND@100	NA
	6/14/16	ND@1	ND@1	ND@1	ND@3	ND	**1,330**	290	33.8	**1240**	NA
	7/14/16	ND@1	ND@1	ND@1	ND@3	ND	6.70	ND@10	ND@1	ND@100	NA
	8/1/16	ND@1	ND@1	ND@1	ND@3	ND	**35.5**	ND@10	ND@1	ND@100	NA
	8/16/16	ND@1	ND@1	ND@1	ND@3	ND	2.49	ND@10	ND@1	ND@100	NA
	9/3/16	ND@1	ND@1	ND@1	ND@3	ND	**189**	ND@10	3.29	**129**	NA
	9/16/16	ND@1	ND@1	ND@1	ND@3	ND	17	ND@10	3.29	ND@100	NA
MW-10	9/23/15	ND@1	ND@1	ND@1	ND@3	ND	1.14	ND@10	ND@1	ND@100	NA
	12/16/15	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	2/4/16	ND@1	ND@1	ND@1	ND@3	ND	0.518 J	ND@10	ND@1	ND@100	NA
	2/16/16	ND@1	ND@1	ND@1	ND@3	ND	7.36	ND@10	ND@1	ND@100	NA
	3/4/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	3/16/16	ND@1	ND@1	ND@1	ND@3	ND	1.62	ND@10	ND@1	ND@100	NA
	4/4/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	4/20/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	5/5/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	16.1	ND@1	ND@100	NA
	5/19/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	6/2/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	6/14/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	7/14/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	8/1/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	8/16/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	9/3/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	9/16/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	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 6
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
1/9/2015	576,898	11,166	1,015	0.70	576,898
1/23/2015	590,998	14,100	1,007	0.70	590,998
2/13/2015	612,091	21,093	1,004	0.70	612,091
2/25/2015	623,768	11,677	973	0.68	623,768
3/16/2015	642,081	18,313	964	0.67	642,081
3/24/2015	649,670	7,589	949	0.66	649,670
4/7/2015	663,300	13,630	974	0.68	663,300
4/21/2015	676,710	13,410	958	0.67	676,710
5/6/2015	690,930	14,220	948	0.66	690,930
5/31/2015	715,080	24,150	966	0.67	715,080
6/9/2015	722,480	7,400	822	0.57	722,480
6/22/2015	734,353	11,873	913	0.63	734,353
7/13/2015	753,583	19,230	916	0.64	753,583
7/22/2015	761,522	7,939	882	0.61	761,522
8/6/2015	774,970	13,448	897	0.62	774,970
8/28/2015	781,690	6,720	305	0.21	781,690
9/23/2015	782,190	500	10	0.01	782,190
10/7/2015	782,191	1	0.1	0.00	782,191
10/15/2015	787,082	4,891	611	0.42	787,082
10/18/2015	788,200	1,118	373	0.26	788,200
10/20/2015	792,020	3,820	1,910	1.33	792,020
11/2/2015	804,825	12,805	985	0.68	804,825
11/16/2015	817,851	13,026	930	0.65	817,851
12/2/2015	830,922	13,071	817	0.57	830,922
12/16/2015	842,172	11,250	804	0.56	842,172
1/6/2016	858,088	15,916	758	0.53	858,088
1/8/2016	859,819	1,731	866	0.60	859,819
1/20/2016	869,269	9,450	788	0.55	869,269
1/27/2016	874,375	5,106	729	0.51	874,375
2/4/2016	880,180	5,805	726	0.50	880,180
2/6/2016	880,236	56	28	0.02	880,236
3/4/2016	892,790	12,554	465	0.32	892,790
3/16/2016	892,800	10	1	0.00	892,800
4/4/2016	906,552	13,752	724	0.50	906,552
4/20/2016	906,580	28	2	0.00	906,580
5/5/2016	916,924	10,344	690	0.48	916,924
5/19/2016	916,967	43	3	0.00	916,967
6/2/2016	926,688	9,721	694	0.48	926,688
6/14/2016	926,810	122	10	0.01	926,810
7/1/2016	938,456	11,646	685	0.48	938,456
7/14/2016	938,472	16	1	0.00	938,472
8/1/2016	951,470	12,998	722	0.50	951,470
8/16/2016	951,517	47	3	0.00	951,517
9/2/2016	954,803	3,286	193	0.13	954,803
9/3/2016	955,581	778	778	0.54	955,581
9/16/2016	964,320	8,739	672	0.47	964,320

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
1/9/2015	134,891	4,055	369	0.26	134,891
1/23/2015	140,023	5,132	367	0.25	140,023
2/13/2015	147,563	7,540	359	0.25	147,563
2/25/2015	151,715	4,152	346	0.24	151,715
3/16/2015	158,220	6,505	342	0.24	158,220
3/24/2015	160,890	2,670	334	0.23	160,890
4/7/2015	165,550	4,660	333	0.23	165,550
4/21/2015	170,090	4,540	324	0.23	170,090
5/6/2015	176,570	6,480	432	0.30	176,570
5/31/2015	186,870	10,300	412	0.29	186,870
6/9/2015	189,855	2,985	332	0.23	189,855
6/22/2015	194,463	7,593	345	0.24	194,463
7/13/2015	201,700	7,237	345	0.24	201,700
7/22/2015	204,631	2,931	326	0.23	204,631
8/6/2015	209,536	4,905	327	0.23	209,536
8/28/2015	212,020	2,484	113	0.08	212,020
9/23/2015	214,350	4,814	100	0.07	214,350
10/7/2015	214,350	0	0	0.00	214,350
10/15/2015	214,414	64	8	0.01	214,414
10/18/2015	214,944	530	177	0.12	214,944
10/20/2015	217,097	2,153	1,077	0.75	217,097
11/2/2015	224,140	7,043	542	0.38	224,140
11/16/2015	231,149	7,009	501	0.35	231,149
12/2/2015	238,658	7,509	469	0.33	238,658
12/16/2015	244,777	6,119	437	0.30	244,777
1/6/2016	253,266	8,489	404	0.28	253,266
1/8/2016	254,214	948	474	0.33	254,214
1/20/2016	259,318	5,104	425	0.30	259,318
1/27/2016	262,083	2,765	395	0.27	262,083
2/4/2016	265,223	3,140	393	0.27	265,223
2/6/2016	265,253	30	15	0.01	265,253
3/4/2016	273,760	8,507	315	0.22	273,760
3/16/2016	273,764	4	0	0.00	273,764
4/4/2016	282,696	8,932	470	0.33	282,696
4/20/2016	282,710	14	1	0.00	282,710
5/5/2016	288,788	6,078	405	0.28	288,788
5/19/2016	288,797	9	1	0.00	288,797
6/2/2016	294,259	5,462	390	0.27	294,259
6/14/2016	294,320	61	5	0.00	294,320
7/1/2016	300,466	6,146	362	0.25	300,466
7/14/2016	300,466	0	0	0.00	300,466
8/1/2016	306,960	6,494	361	0.25	306,960
8/16/2016	306,985	25	2	0.00	306,985
9/2/2016	308,441	1,456	86	0.06	308,441
9/3/2016	309,301	860	860	0.60	309,301
9/16/2016	314,187	4,886	376	0.26	314,187

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	1,999,307	130,390	5,015	3.48	1,999,307
1/9/2015	2,054,603	55,296	5,027	3.49	2,054,603
1/23/2015	2,126,643	72,040	5,146	3.57	2,126,643
2/13/2015	2,236,594	109,951	5,236	3.64	2,236,594
2/25/2015	2,299,753	63,159	5,263	3.66	2,299,753
3/16/2015	2,401,750	101,997	5,368	3.73	2,401,750
3/24/2015	2,443,900	42,150	5,269	3.66	2,443,900
4/7/2015	2,519,170	75,270	5,376	3.73	2,519,170
4/21/2015	2,594,180	75,010	5,358	3.72	2,594,180
5/6/2015	2,676,000	81,820	5,455	3.79	2,676,000
5/31/2015	2,817,230	141,230	5,649	3.92	2,817,230
6/9/2015	2,861,716	44,486	4,943	3.43	2,861,716
6/22/2015	2,935,210	117,980	5,363	3.72	2,935,210
7/13/2015	3,054,112	118,902	5,662	3.93	3,054,112
7/22/2015	3,104,575	50,463	5,607	3.89	3,104,575
8/6/2015	3,191,134	86,559	5,771	4.01	3,191,134
8/28/2015	3,234,880	43,746	1,988	1.38	3,234,880
9/23/2015	3,261,160	70,026	1,459	1.01	3,261,160
10/7/2015	3,261,160	0	0	0.00	3,261,160
10/15/2015	3,293,656	32,496	4,062	2.82	3,293,656
10/18/2015	3,299,184	5,528	1,843	1.28	3,299,184
10/20/2015	3,323,938	24,754	12,377	8.60	3,323,938
11/2/2015	3,410,073	86,135	6,626	4.60	3,410,073
11/16/2015	3,500,876	90,803	6,486	4.50	3,500,876
12/2/2015	3,606,504	105,628	6,602	4.58	3,606,504
12/16/2015	3,697,761	91,257	6,518	4.53	3,697,761
1/6/2016	3,831,189	133,428	6,354	4.41	3,831,189
1/8/2016	3,844,312	13,123	6,562	4.56	3,844,312
1/20/2016	3,924,369	80,057	6,671	4.63	3,924,369
1/27/2016	3,970,013	45,644	6,521	4.53	3,970,013
2/4/2016	4,022,635	52,622	6,578	4.57	4,022,635
2/16/2016	4,102,001	79,366	6,614	4.59	4,102,001
3/4/2016	4,214,500	112,499	6,618	4.60	4,214,500
3/16/2016	4,293,373	78,873	6,573	4.56	4,293,373
4/4/2016	4,416,957	123,584	6,504	4.52	4,416,957
4/20/2016	4,524,780	107,823	6,739	4.68	4,524,780
5/5/2016	4,621,125	96,345	6,423	4.46	4,621,125
5/19/2016	4,715,879	94,754	6,768	4.70	4,715,879
6/2/2016	4,806,121	90,242	6,446	4.48	4,806,121
6/14/2016	4,887,890	81,769	6,814	4.73	4,887,890
7/1/2016	4,996,441	108,551	6,385	4.43	4,996,441
7/14/2016	5,082,462	86,021	6,617	4.60	5,082,462
8/1/2016	5,200,050	117,588	6,533	4.54	5,200,050
8/16/2016	5,297,559	97,509	6,501	4.51	5,297,559
9/2/2016	5,328,501	30,942	1,820	1.26	5,328,501
9/3/2016	5,334,156	5,655	5,655	3.93	5,334,156
9/16/2016	5,418,230	84,074	6,467	4.49	5,418,230

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

	Air Stripper Influent									Air Stripper 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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
1/9/15	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
2/13/15	ND@1	ND@1	ND@1	ND@3	ND	21	ND@20	ND@10	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100
3/16/15	ND@1	ND@1	ND@1	ND@2	ND	20.7	ND@20	ND@10	ND@100	ND@1	ND@1	ND@1	ND@2	ND	ND@1	ND@20	ND@10	ND@100
4/7/15	ND@1	ND@1	ND@1	ND@2	ND	15.2	ND@20	ND@20	ND@100	ND@1	ND@1	ND@1	ND@2	ND	ND@1	ND@20	ND@20	ND@100
5/6/15	ND@1	ND@1	ND@1	ND@2	ND	15.8	ND@20	ND@20	ND@100	ND@1	ND@1	ND@1	ND@2	ND	ND@1	ND@20	ND@20	ND@100
6/9/15	ND@1	ND@1	ND@1	ND@3	ND	8.83	ND@10	ND@20	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@20	ND@100
7/13/15	ND@1	ND@1	ND@1	ND@3	ND	5.08	ND@10	ND@20	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@20	ND@100
8/6/15	ND@1	ND@1	ND@1	ND@3	ND	4.53	ND@10	ND@1	ND@100	NS	NS	NS	NS	NS	NS	NS	NS	NS
9/23/15	ND@1	ND@1	ND@1	ND@3	ND	608	27.5	11.5	232	NS	NS	NS	NS	NS	NS	NS	NS	NS
10/7/15	ND@1	ND@1	ND@1	ND@3	ND	70.60	ND@10	ND@1	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@20	ND@100
10/20/15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
11/2/15	ND@1	ND@1	ND@1	ND@3	ND	23.4	ND@10	ND@1	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@20	ND@100
12/2/15	ND@1	ND@1	ND@1	ND@3	ND	8.69	ND@10	ND@1	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@20	ND@100
12/16/15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1/8/16	ND@1	ND@1	ND@1	ND@3	ND	6.34	ND@10	ND@1	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@20	ND@100
1/20/16	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2/4/16	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2/16/16	ND@1	ND@1	ND@1	ND@3	ND	139	ND@10	3.02	116	ND@1	ND@1	ND@1	ND@3	ND	6.38	ND@10	ND@1	ND@100
3/4/16	ND@1	ND@1	ND@1	ND@3	ND	6.55	ND@10	ND@1	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100
3/16/16	ND@1	ND@1	ND@1	ND@3	ND	75.8	ND@10	1.79	ND@100	ND@1	ND@1	ND@1	ND@3	ND	3.75	ND@10	ND@1	ND@100
4/4/16	ND@1	ND@1	ND@1	ND@3	ND	3.5	ND@10	ND@1	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100
4/20/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100
5/5/16	ND@1	ND@1	ND@1	ND@3	ND	3.6	13.8	ND@1	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100
5/19/16	ND@1	ND@1	ND@1	ND@3	ND	23	ND@10	ND@1	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100
6/2/16	ND@1	ND@1	ND@1	ND@3	ND	3	ND@10	ND@1	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100
6/14/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100
7/1/16	ND@1	ND@1	ND@1	ND@3	ND	1.34	ND@10	ND@1	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100
7/14/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100
8/1/16	ND@1	ND@1	ND@1	ND@3	ND	1.84	ND@10	ND@1	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100
8/16/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100
9/3/16	ND@1	ND@1	ND@1	ND@3	ND	16.9	ND@10	ND@1	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100
9/16/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100

	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
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
10/17/13	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
11/14/13	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
12/16/13	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	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	ND@1	ND@20	ND@10	ND@100	NS	NS	NS	NS	NS	NS	NS	NS	NS
3/11/14	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
4/8/14	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
5/7/14	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
6/9/14	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
7/9/14	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
8/5/14	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
9/2/14	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
10/13/14	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
11/10/14	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
12/3/14	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
1/9/15	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
2/13/15	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
3/16/15	ND@1	ND@1	ND@1	ND@2	ND	ND@1	ND@20	ND@10	ND@100	ND@1	ND@1	ND@1	ND@2	ND	ND@1	NA	NA	ND@100
4/7/15	ND@1	ND@1	ND@1	ND@2	ND	ND@1	ND@20	ND@20	ND@100	ND@1	ND@1	ND@1	ND@2	ND	ND@1	NA	NA	ND@100
5/6/15	ND@1	ND@1	ND@1	ND@2	ND	ND@1	ND@20	ND@20	ND@100	ND@1	ND@1	ND@1	ND@2	ND	ND@1	NA	NA	ND@100
6/9/15	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@20	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100
7/13/15	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@20	ND@100	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100
8/6/15	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100
9/23/15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10/7/15	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@20	ND@100	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100
10/20/15	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100
11/2/15	ND@1	ND@1	ND@3	ND	ND@1	ND@10	17.4	ND@100	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100
12/2/15	ND@1	ND@1	ND@3	ND	ND@1	ND@10	17.4	ND@100	ND@100	NS	NS	NS	NS	NS	NS	NS	NS	NS
12/16/15	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100
1/8/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100
1/20/16	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND@1	ND@1	ND@1	ND@3	ND	ND@1	NA	NA	NA
2/4/16	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND@1	ND@1	ND@1	ND@3	ND	ND@1	NA	NA	ND@100
2/16/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	NA	NA	ND@100
3/4/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	NA	NA	ND@100
3/16/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100
4/4/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100
4/20/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100
5/5/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100
5/19/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100
6/2/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100
6/14/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100
7/1/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	NA	NA	ND@100
7/14/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	NA	NA	ND@100
8/1/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	NA	NA	ND@100
8/16/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	NA	NA	ND@100
9/3/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	NA	NA	ND@100
9/16/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	ND@1	ND@1	ND@1	ND@3	ND	ND@1	NA	NA	ND@100

Notes:

Samples collected on 9/23/2015 are indicated as GAC 2 Effluent samples on the COC; however, they are believed to be influent samples based on the similar concentrations observed in the recovery wells on 9/23/2015.

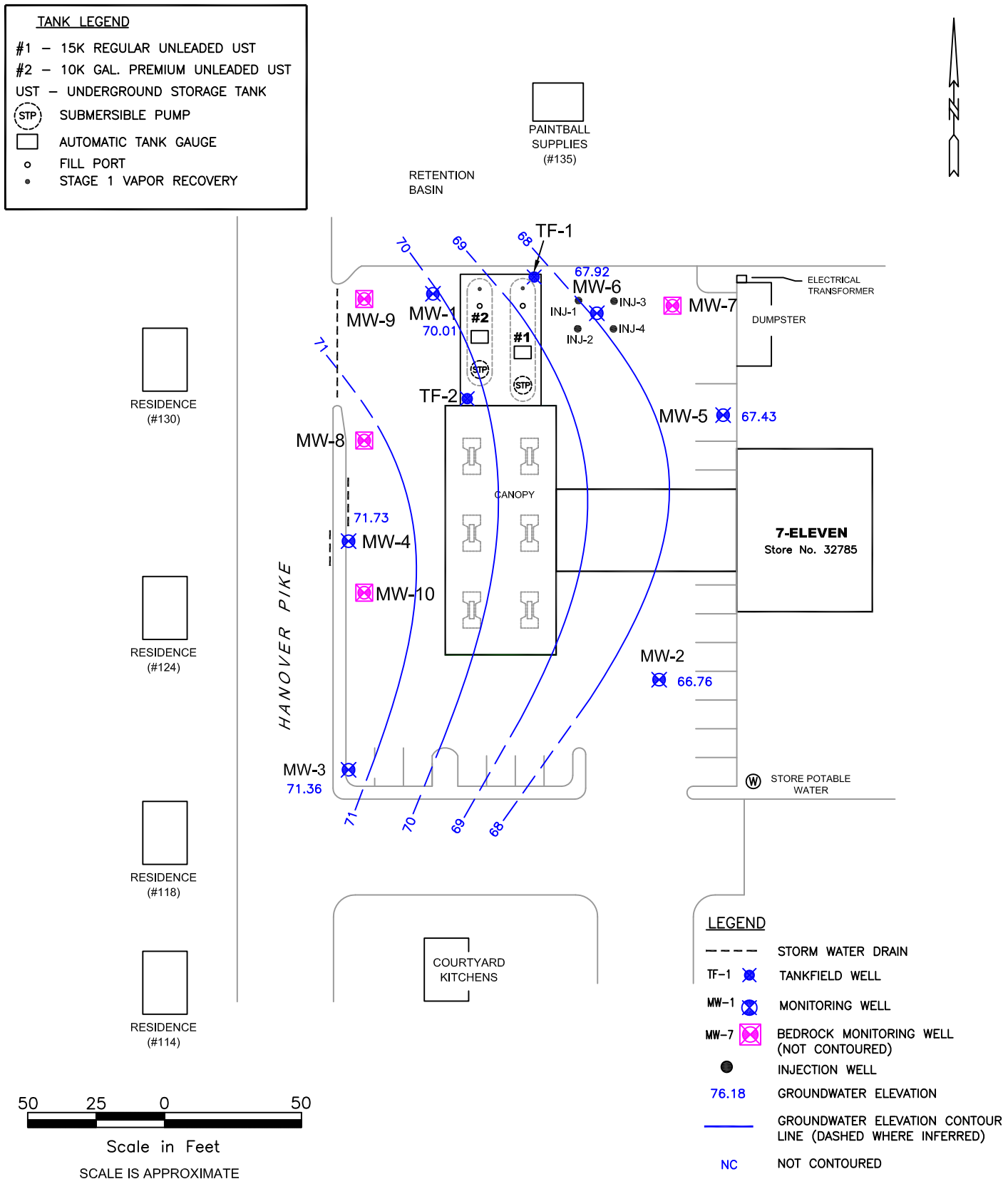
Samples collected on 2/16/16 and 3/16/16 were collected after the system re-start as part of pulsing efforts in MW-8 and MW-9.

ug/L = Micrograms-per-liter
NS - not sampled
ND@x - not detected above laboratory detection limit of "x"

TPH-GRO - total petroleum hydrocarbons-gasoline range organics
BTEX - Benzene, toluene, ethylbenzene, total xylenes

MTBE - methyl-tert-butyl ether
TAME - Tert-amyl methyl ether

FIGURES



AECOM ENVIRONMENT
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PHONE: (301) 289-3900
FAX: (301) 289-3901
WEB: HTTP://WWW.AECOM.COM

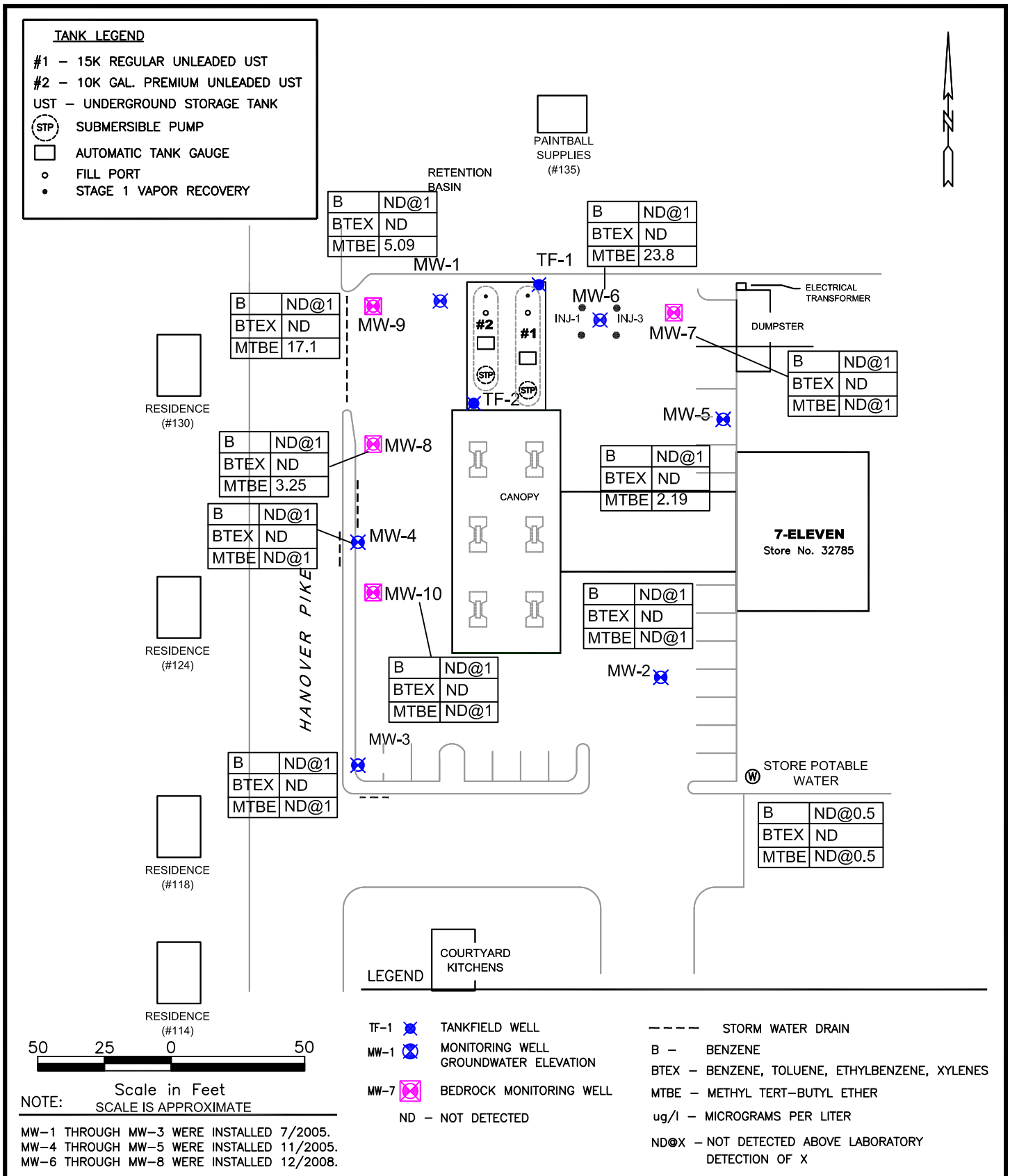
GROUNDWATER ELEVATION MAP SHALLOW WELLS (PUMPING CONDITIONS)

September 16, 2016

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

FIGURE NUMBER: **1**

DRAWN BY:	CHECKED BY:	DATE:	PROJECT NUMBER:	SHEET NUMBER:
ME	JC	9/19/16	60338398	1 OF 1



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DISSOLVED-PHASE HYDROCARBON CONCENTRATION MAP (ug/l)
September 16, 2016

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

FIGURE NUMBER: **2**

DRAWN BY:	CHECKED BY:	DATE:	PROJECT NUMBER:	SHEET NUMBER:
ME	JC	9/29/16	60338398	1 OF 1

ATTACHMENT A

Monitoring Well Laboratory Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-107839-1
TestAmerica SDG: 125 Hanover Pike, Hampstead, MD
Client Project/Site: 32785.Hampstead.EL (MD)

For:
AECOM
8000 Virginia Manor Road
Suite 110
Beltsville, Maryland 20705

Attn: Mr. John Canzeri

Sherry M Salomon

Authorized for release by:
7/25/2016 12:21:41 PM

Sherry Salomon, Manager of Project Management Assistants
(615)301-5033
sherry.salomon@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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QC Sample Results 9
QC Association 13
Chronicle 14
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Sample Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107839-1
SDG: 125 Hanover Pike, Hampstead, MD

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-107839-1	MW 8	Water	07/14/16 15:15	07/16/16 09:45
490-107839-2	MW 9	Water	07/14/16 16:05	07/16/16 09:45
490-107839-3	MW 10	Water	07/14/16 14:50	07/16/16 09:45

Case Narrative

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107839-1
SDG: 125 Hanover Pike, Hampstead, MD

Job ID: 490-107839-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-107839-1

Comments
No additional comments.

Receipt
The samples were received on 7/16/2016 at 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9º C.

Receipt Exceptions
No collection times were written on the labels of the following samples: MW 8 (490-107839-1), MW 9 (490-107839-2) and MW 10 (490-107839-3). The samples were logged per the times listed on the COC.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107839-1
SDG: 125 Hanover Pike, Hampstead, MD

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107839-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW 8

Date Collected: 07/14/16 15:15
Date Received: 07/16/16 09:45

Lab Sample ID: 490-107839-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			07/20/16 08:45	1
Diisopropyl ether	**4.58**		2.00		ug/L			07/20/16 08:45	1
Ethylbenzene	ND		1.00		ug/L			07/20/16 08:45	1
Ethyl tert-butyl ether	ND		1.00		ug/L			07/20/16 08:45	1
Methyl tert-butyl ether	**178**		1.00		ug/L			07/20/16 08:45	1
Tert-amyl methyl ether	**2.94**		1.00		ug/L			07/20/16 08:45	1
tert-Butyl alcohol (TBA)	**96.5**		10.0		ug/L			07/20/16 08:45	1
Toluene	ND		1.00		ug/L			07/20/16 08:45	1
Xylenes, Total	ND		3.00		ug/L			07/20/16 08:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*07/20/16 08:45*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*07/20/16 08:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*07/20/16 08:45*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*07/20/16 08:45*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	**172**		100		ug/L			07/20/16 06:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*96*		*50 - 150*		*07/20/16 06:31*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107839-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW 9

Date Collected: 07/14/16 16:05
Date Received: 07/16/16 09:45

Lab Sample ID: 490-107839-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			07/20/16 06:08	1
Diisopropyl ether	ND		2.00		ug/L			07/20/16 06:08	1
Ethylbenzene	ND		1.00		ug/L			07/20/16 06:08	1
Ethyl tert-butyl ether	ND		1.00		ug/L			07/20/16 06:08	1
Methyl tert-butyl ether	**6.70**		1.00		ug/L			07/20/16 06:08	1
Tert-amyl methyl ether	ND		1.00		ug/L			07/20/16 06:08	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			07/20/16 06:08	1
Toluene	ND		1.00		ug/L			07/20/16 06:08	1
Xylenes, Total	ND		3.00		ug/L			07/20/16 06:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*07/20/16 06:08*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*07/20/16 06:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*07/20/16 06:08*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*07/20/16 06:08*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			07/20/16 07:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*96*		*50 - 150*		*07/20/16 07:02*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107839-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW 10

Date Collected: 07/14/16 14:50
Date Received: 07/16/16 09:45

Lab Sample ID: 490-107839-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			07/20/16 05:42	1
Diisopropyl ether	ND		2.00		ug/L			07/20/16 05:42	1
Ethylbenzene	ND		1.00		ug/L			07/20/16 05:42	1
Ethyl tert-butyl ether	ND		1.00		ug/L			07/20/16 05:42	1
Methyl tert-butyl ether	ND		1.00		ug/L			07/20/16 05:42	1
Tert-amyl methyl ether	ND		1.00		ug/L			07/20/16 05:42	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			07/20/16 05:42	1
Toluene	ND	F2	1.00		ug/L			07/20/16 05:42	1
Xylenes, Total	ND	F2	3.00		ug/L			07/20/16 05:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*07/20/16 05:42*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*07/20/16 05:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*07/20/16 05:42*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*07/20/16 05:42*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			07/20/16 07:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*97*		*50 - 150*		*07/20/16 07:33*	*1*

QC Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107839-1
SDG: 125 Hanover Pike, Hampstead, MD

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-356362/7
Matrix: Water
Analysis Batch: 356362

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			07/20/16 05:16	1
Diisopropyl ether	ND		2.00		ug/L			07/20/16 05:16	1
Ethylbenzene	ND		1.00		ug/L			07/20/16 05:16	1
Ethyl tert-butyl ether	ND		1.00		ug/L			07/20/16 05:16	1
Methyl tert-butyl ether	ND		1.00		ug/L			07/20/16 05:16	1
Tert-amyl methyl ether	ND		1.00		ug/L			07/20/16 05:16	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			07/20/16 05:16	1
Toluene	ND		1.00		ug/L			07/20/16 05:16	1
Xylenes, Total	ND		3.00		ug/L			07/20/16 05:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*07/20/16 05:16*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*07/20/16 05:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*07/20/16 05:16*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*07/20/16 05:16*	*1*

Lab Sample ID: LCS 490-356362/3
Matrix: Water
Analysis Batch: 356362

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	51.14		ug/L		102	70 - 130
Diisopropyl ether	50.0	42.64		ug/L		85	66 - 142
Ethylbenzene	50.0	52.09		ug/L		104	70 - 130
Ethyl tert-butyl ether	50.0	44.08		ug/L		88	63 - 135
Methyl tert-butyl ether	50.0	45.14		ug/L		90	70 - 130
Tert-amyl methyl ether	50.0	43.94		ug/L		88	63 - 135
tert-Butyl alcohol (TBA)	500	338.0		ug/L		68	12 - 150
Toluene	50.0	52.02		ug/L		104	70 - 130
Xylenes, Total	150	149.0		ug/L		99	70 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Dibromofluoromethane (Surr)	*108*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 490-356362/4
Matrix: Water
Analysis Batch: 356362

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	50.12		ug/L		100	70 - 130	2	12
Diisopropyl ether	50.0	44.21		ug/L		88	66 - 142	4	14
Ethylbenzene	50.0	50.53		ug/L		101	70 - 130	3	12
Ethyl tert-butyl ether	50.0	45.88		ug/L		92	63 - 135	4	15
Methyl tert-butyl ether	50.0	46.75		ug/L		94	70 - 130	3	16

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-356362/4
Matrix: Water
Analysis Batch: 356362

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tert-amyl methyl ether			50.0	44.97		ug/L		90	63 - 135	2	15
tert-Butyl alcohol (TBA)			500	374.4		ug/L		75	12 - 150	10	46
Toluene			50.0	50.30		ug/L		101	70 - 130	3	13
Xylenes, Total			150	145.1		ug/L		97	70 - 132	3	11

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*108*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: 490-107839-3 MS
Matrix: Water
Analysis Batch: 356362

Client Sample ID: MW 10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	ND		50.0	49.17		ug/L		98	55 - 147		
Diisopropyl ether	ND		50.0	42.74		ug/L		85	56 - 142		
Ethylbenzene	ND		50.0	49.67		ug/L		99	65 - 139		
Ethyl tert-butyl ether	ND		50.0	46.05		ug/L		92	53 - 138		
Methyl tert-butyl ether	ND		50.0	46.96		ug/L		93	55 - 141		
Tert-amyl methyl ether	ND		50.0	45.46		ug/L		91	47 - 148		
tert-Butyl alcohol (TBA)	ND		500	428.4		ug/L		86	10 - 150		
Toluene	ND	F2	50.0	48.93		ug/L		98	64 - 136		
Xylenes, Total	ND	F2	150	142.2		ug/L		95	69 - 132		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Dibromofluoromethane (Surr)	*108*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: 490-107839-3 MSD
Matrix: Water
Analysis Batch: 356362

Client Sample ID: MW 10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		50.0	60.02		ug/L		120	55 - 147	20	22
Diisopropyl ether	ND		50.0	53.14		ug/L		106	56 - 142	22	22
Ethylbenzene	ND		50.0	59.50		ug/L		119	65 - 139	18	18
Ethyl tert-butyl ether	ND		50.0	56.93		ug/L		114	53 - 138	21	22
Methyl tert-butyl ether	ND		50.0	58.55		ug/L		117	55 - 141	22	24
Tert-amyl methyl ether	ND		50.0	56.53		ug/L		113	47 - 148	22	23
tert-Butyl alcohol (TBA)	ND		500	534.3		ug/L		107	10 - 150	22	47
Toluene	ND	F2	50.0	60.40	F2	ug/L		121	64 - 136	21	18
Xylenes, Total	ND	F2	150	170.2	F2	ug/L		113	69 - 132	18	17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-107839-3 MSD
Matrix: Water
Analysis Batch: 356362

Client Sample ID: MW 10
Prep Type: Total/NA

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Dibromofluoromethane (Surr)	*109*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Lab Sample ID: MB 490-356118/8
Matrix: Water
Analysis Batch: 356118

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			07/19/16 13:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*94*		*50 - 150*		*07/19/16 13:44*	*1*

Lab Sample ID: LCS 490-356118/5
Matrix: Water
Analysis Batch: 356118

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]			1000	1085		ug/L		108	66 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*129*		*50 - 150*

Lab Sample ID: LCSD 490-356118/6
Matrix: Water
Analysis Batch: 356118

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]			1000	1043		ug/L		104	66 - 140	4	42

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*115*		*50 - 150*

Lab Sample ID: 490-107841-E-3 MS
Matrix: Water
Analysis Batch: 356118

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]	ND		1000	1046		ug/L		105	33 - 175		

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) (Continued)

Lab Sample ID: 490-107841-E-3 MS
Matrix: Water
Analysis Batch: 356118

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*120*		*50 - 150*

Lab Sample ID: 490-107841-F-3 MSD
Matrix: Water
Analysis Batch: 356118

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		1000	985.3		ug/L		99	33 - 175	6	42

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*118*		*50 - 150*

QC Association Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107839-1
SDG: 125 Hanover Pike, Hampstead, MD

GC/MS VOA

Analysis Batch: 356362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-107839-1	MW 8	Total/NA	Water	8260B	
490-107839-2	MW 9	Total/NA	Water	8260B	
490-107839-3	MW 10	Total/NA	Water	8260B	
MB 490-356362/7	Method Blank	Total/NA	Water	8260B	
LCS 490-356362/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-356362/4	Lab Control Sample Dup	Total/NA	Water	8260B	
490-107839-3 MS	MW 10	Total/NA	Water	8260B	
490-107839-3 MSD	MW 10	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 356118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-107839-1	MW 8	Total/NA	Water	8015C	
490-107839-2	MW 9	Total/NA	Water	8015C	
490-107839-3	MW 10	Total/NA	Water	8015C	
MB 490-356118/8	Method Blank	Total/NA	Water	8015C	
LCS 490-356118/5	Lab Control Sample	Total/NA	Water	8015C	
LCSD 490-356118/6	Lab Control Sample Dup	Total/NA	Water	8015C	
490-107841-E-3 MS	Matrix Spike	Total/NA	Water	8015C	
490-107841-F-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8015C	

Lab Chronicle

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107839-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW 8

Lab Sample ID: 490-107839-1
Date Collected: 07/14/16 15:15
Matrix: Water
Date Received: 07/16/16 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	356362	07/20/16 08:45	JRV	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	356118	07/20/16 06:31	GWM	TAL NSH

Client Sample ID: MW 9

Lab Sample ID: 490-107839-2
Date Collected: 07/14/16 16:05
Matrix: Water
Date Received: 07/16/16 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	356362	07/20/16 06:08	JRV	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	356118	07/20/16 07:02	GWM	TAL NSH

Client Sample ID: MW 10

Lab Sample ID: 490-107839-3
Date Collected: 07/14/16 14:50
Matrix: Water
Date Received: 07/16/16 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	356362	07/20/16 05:42	JRV	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	356118	07/20/16 07:33	GWM	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107839-1
SDG: 125 Hanover Pike, Hampstead, MD

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
8015C	Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	SW846	TAL NSH

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107839-1
SDG: 125 Hanover Pike, Hampstead, MD

Laboratory: TestAmerica Nashville

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Maryland	State Program	3	316	03-31-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8015C		Water	Gasoline Range Organics [C6 - C10]
8260B		Water	Benzene
8260B		Water	Diisopropyl ether
8260B		Water	Ethyl tert-butyl ether
8260B		Water	Ethylbenzene
8260B		Water	Methyl tert-butyl ether
8260B		Water	Tert-amyl methyl ether
8260B		Water	tert-Butyl alcohol (TBA)
8260B		Water	Toluene
8260B		Water	Xylenes, Total

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

490-107839 Chain of Custody

COOLER RECEIPT FORM

Cooler Received/Opened On 7/16/2016 @ 0945

Time Samples Removed From Cooler_____ Time Samples Placed In Storage_____ (2 Hour Window)

1. Tracking # 1819 (last 4 digits, FedEx) Courier: FedeX Ground

IR Gun ID 17960353 pH Strip Lot HC574756 Chlorine Strip Lot 041416F

2. Temperature of rep. sample or temp blank when opened: 2.9 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: one front & Back

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) DA

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) PM

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) PM

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) PM

I certify that I attached a label with the unique LIMS number to each container (intial) PM

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#_____

PM 7/16/16

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 12/15/15

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

180325

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

BALTIMORE

Client Information	Sampler: M. Parsons	Lab PM: Salomon, Sherry	TestAmerica Laboratories, Inc.	COC No: 490-49470-16119.1
Client Contact: Mr. John Canzeri	Phone: 443-286-2603	E-Mail: sherry.salomon@testamericainc.com		Page: Page 1 of 1
Company: AECOM				Job #: 60338398
Address: 8000 Virginia Manor Road Suite 110	Due Date Requested:			
City: Beltsville	TAT Requested (days): STD			
State, Zip: MD, 20705				
Phone: 301-289-3805(Tel) 301-289-3901(Fax)	PO #: WO245818			
Email: John.Canzeri@aecom.com	WO #:			
Project Name: 32785.Hampstead.EL(MD)	Project #: 49008398			
Site: 125 Hanover Pike, Hampstead, MD	SSOW#:			

Analysis Requested

Loc: 490
107839

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B BTEX + Oxys	8015C_GRO	Total Number of containers	Special Instructions/Note:
			Preservation Code:			A	A			
1 MW 8	7/14/16	1515	G	Water	N	N	✓	✓	6	
2 MW 9		1605		Water			✓	✓	6	
3 MW 10		1450		Water			✓	✓	6	
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
(Parsons)	7-15-2016 / 1030	AECOM		7-15-2016 / 1030	TestAmerica
	7-15-2016 / 1050	TestAmerica	2.9	7-16-16 945	TAN

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: AECOM

Job Number: 490-107839-1
SDG Number: 125 Hanover Pike, Hampstead, MD

Login Number: 107839
List Number: 1
Creator: Ngo, Phiet

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-108893-1
TestAmerica SDG: 125 Hanover Pike, Hampstead, MD
Client Project/Site: 32785.Hampstead.EL (MD)

For:
AECOM
8000 Virginia Manor Road
Suite 110
Beltsville, Maryland 20705

Attn: Mr. John Canzeri

Sherry M Salomon

Authorized for release by:
8/10/2016 1:08:40 PM

Sherry Salomon, Manager of Project Management Assistants
(615)301-5033
sherry.salomon@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-108893-1
SDG: 125 Hanover Pike, Hampstead, MD

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-108893-1	A/S INF	Water	08/01/16 17:35	08/03/16 09:55
490-108893-2	A/S EFF	Water	08/01/16 17:30	08/03/16 09:55
490-108893-3	GAC-1 EFF	Water	08/01/16 17:25	08/03/16 09:55
490-108893-4	GAC-2 FINAL	Water	08/01/16 17:20	08/03/16 09:55
490-108893-5	MW-8	Water	08/01/16 17:40	08/03/16 09:55
490-108893-6	MW-9	Water	08/01/16 17:45	08/03/16 09:55
490-108893-7	MW-10	Water	08/01/16 17:50	08/03/16 09:55

Case Narrative

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-108893-1
SDG: 125 Hanover Pike, Hampstead, MD

Job ID: 490-108893-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-108893-1

Comments
No additional comments.

Receipt
The samples were received on 8/3/2016 at 9:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.8º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-108893-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: A/S INF

Date Collected: 08/01/16 17:35
Date Received: 08/03/16 09:55

Lab Sample ID: 490-108893-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/05/16 03:34	1
Diisopropyl ether	ND		2.00		ug/L			08/05/16 03:34	1
Ethylbenzene	ND		1.00		ug/L			08/05/16 03:34	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/05/16 03:34	1
Methyl tert-butyl ether	**1.84**		1.00		ug/L			08/05/16 03:34	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/05/16 03:34	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/05/16 03:34	1
Toluene	ND		1.00		ug/L			08/05/16 03:34	1
Xylenes, Total	ND		3.00		ug/L			08/05/16 03:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*08/05/16 03:34*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*08/05/16 03:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*08/05/16 03:34*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*08/05/16 03:34*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			08/03/16 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*94*		*50 - 150*		*08/03/16 15:36*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-108893-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: A/S EFF

Date Collected: 08/01/16 17:30
Date Received: 08/03/16 09:55

Lab Sample ID: 490-108893-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/05/16 03:08	1
Diisopropyl ether	ND		2.00		ug/L			08/05/16 03:08	1
Ethylbenzene	ND		1.00		ug/L			08/05/16 03:08	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/05/16 03:08	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/05/16 03:08	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/05/16 03:08	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/05/16 03:08	1
Toluene	ND		1.00		ug/L			08/05/16 03:08	1
Xylenes, Total	ND		3.00		ug/L			08/05/16 03:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*08/05/16 03:08*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*08/05/16 03:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*08/05/16 03:08*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*08/05/16 03:08*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			08/03/16 16:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*94*		*50 - 150*		*08/03/16 16:08*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-108893-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: GAC-1 EFF

Lab Sample ID: 490-108893-3

Date Collected: 08/01/16 17:25
Date Received: 08/03/16 09:55

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/05/16 02:42	1
Diisopropyl ether	ND		2.00		ug/L			08/05/16 02:42	1
Ethylbenzene	ND		1.00		ug/L			08/05/16 02:42	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/05/16 02:42	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/05/16 02:42	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/05/16 02:42	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/05/16 02:42	1
Toluene	ND		1.00		ug/L			08/05/16 02:42	1
Xylenes, Total	ND		3.00		ug/L			08/05/16 02:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*08/05/16 02:42*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*08/05/16 02:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*08/05/16 02:42*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/05/16 02:42*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			08/03/16 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*96*		*50 - 150*		*08/03/16 18:16*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-108893-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: GAC-2 FINAL

Lab Sample ID: 490-108893-4

Date Collected: 08/01/16 17:20
Matrix: Water
Date Received: 08/03/16 09:55

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/05/16 02:15	1
Ethylbenzene	ND		1.00		ug/L			08/05/16 02:15	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/05/16 02:15	1
Toluene	ND		1.00		ug/L			08/05/16 02:15	1
Xylenes, Total	ND		3.00		ug/L			08/05/16 02:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*08/05/16 02:15*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/05/16 02:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*08/05/16 02:15*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*08/05/16 02:15*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			08/03/16 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*96*		*50 - 150*		*08/03/16 18:48*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-108893-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-8

Lab Sample ID: 490-108893-5

Date Collected: 08/01/16 17:40
Date Received: 08/03/16 09:55

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/05/16 04:53	1
Diisopropyl ether	ND		2.00		ug/L			08/05/16 04:53	1
Ethylbenzene	ND		1.00		ug/L			08/05/16 04:53	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/05/16 04:53	1
Methyl tert-butyl ether	**4.01**		1.00		ug/L			08/05/16 04:53	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/05/16 04:53	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/05/16 04:53	1
Toluene	ND		1.00		ug/L			08/05/16 04:53	1
Xylenes, Total	ND		3.00		ug/L			08/05/16 04:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*08/05/16 04:53*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*08/05/16 04:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*08/05/16 04:53*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/05/16 04:53*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			08/03/16 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*99*		*50 - 150*		*08/03/16 19:20*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-108893-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-9

Lab Sample ID: 490-108893-6

Date Collected: 08/01/16 17:45
Date Received: 08/03/16 09:55

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/05/16 04:27	1
Diisopropyl ether	ND		2.00		ug/L			08/05/16 04:27	1
Ethylbenzene	ND		1.00		ug/L			08/05/16 04:27	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/05/16 04:27	1
Methyl tert-butyl ether	**35.5**		1.00		ug/L			08/05/16 04:27	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/05/16 04:27	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/05/16 04:27	1
Toluene	ND		1.00		ug/L			08/05/16 04:27	1
Xylenes, Total	ND		3.00		ug/L			08/05/16 04:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*08/05/16 04:27*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*08/05/16 04:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*		*08/05/16 04:27*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/05/16 04:27*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			08/03/16 19:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*96*		*50 - 150*		*08/03/16 19:52*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-108893-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-10

Date Collected: 08/01/16 17:50
Date Received: 08/03/16 09:55

Lab Sample ID: 490-108893-7

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/05/16 04:01	1
Diisopropyl ether	ND		2.00		ug/L			08/05/16 04:01	1
Ethylbenzene	ND		1.00		ug/L			08/05/16 04:01	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/05/16 04:01	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/05/16 04:01	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/05/16 04:01	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/05/16 04:01	1
Toluene	ND		1.00		ug/L			08/05/16 04:01	1
Xylenes, Total	ND		3.00		ug/L			08/05/16 04:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*08/05/16 04:01*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*08/05/16 04:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*		*08/05/16 04:01*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/05/16 04:01*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			08/03/16 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*99*		*50 - 150*		*08/03/16 20:24*	*1*

QC Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-108893-1
SDG: 125 Hanover Pike, Hampstead, MD

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-360479/7
Matrix: Water
Analysis Batch: 360479

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/05/16 01:23	1
Diisopropyl ether	ND		2.00		ug/L			08/05/16 01:23	1
Ethylbenzene	ND		1.00		ug/L			08/05/16 01:23	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/05/16 01:23	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/05/16 01:23	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/05/16 01:23	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/05/16 01:23	1
Toluene	ND		1.00		ug/L			08/05/16 01:23	1
Xylenes, Total	ND		3.00		ug/L			08/05/16 01:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*08/05/16 01:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*08/05/16 01:23*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*08/05/16 01:23*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/05/16 01:23*	*1*

Lab Sample ID: LCS 490-360479/3
Matrix: Water
Analysis Batch: 360479

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	50.58		ug/L		101	70 - 130
Diisopropyl ether	50.0	47.70		ug/L		95	66 - 142
Ethylbenzene	50.0	49.93		ug/L		100	70 - 130
Ethyl tert-butyl ether	50.0	50.34		ug/L		101	63 - 135
Methyl tert-butyl ether	50.0	51.99		ug/L		104	70 - 130
Tert-amyl methyl ether	50.0	49.43		ug/L		99	63 - 135
tert-Butyl alcohol (TBA)	500	456.4		ug/L		91	12 - 150
Toluene	50.0	49.75		ug/L		99	70 - 130
Xylenes, Total	150	143.1		ug/L		95	70 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*110*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 490-360479/4
Matrix: Water
Analysis Batch: 360479

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	51.64		ug/L		103	70 - 130	2	12
Diisopropyl ether	50.0	49.48		ug/L		99	66 - 142	4	14
Ethylbenzene	50.0	52.08		ug/L		104	70 - 130	4	12
Ethyl tert-butyl ether	50.0	51.04		ug/L		102	63 - 135	1	15
Methyl tert-butyl ether	50.0	54.37		ug/L		109	70 - 130	4	16

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-360479/4
Matrix: Water
Analysis Batch: 360479

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tert-amyl methyl ether			50.0	49.94		ug/L		100	63 - 135	1	15
tert-Butyl alcohol (TBA)			500	466.5		ug/L		93	12 - 150	2	46
Toluene			50.0	52.62		ug/L		105	70 - 130	6	13
Xylenes, Total			150	149.1		ug/L		99	70 - 132	4	11

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*109*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: 490-108893-4 MS
Matrix: Water
Analysis Batch: 360479

Client Sample ID: GAC-2 FINAL
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	ND		50.0	55.06		ug/L		110	55 - 147		
Diisopropyl ether	ND		50.0	51.79		ug/L		104	56 - 142		
Ethylbenzene	ND		50.0	55.47		ug/L		111	65 - 139		
Ethyl tert-butyl ether	ND		50.0	53.04		ug/L		106	53 - 138		
Methyl tert-butyl ether	ND		50.0	54.77		ug/L		110	55 - 141		
Tert-amyl methyl ether	ND		50.0	52.59		ug/L		105	47 - 148		
tert-Butyl alcohol (TBA)	ND		500	657.1		ug/L		131	10 - 150		
Toluene	ND		50.0	55.80		ug/L		112	64 - 136		
Xylenes, Total	ND		150	157.7		ug/L		105	69 - 132		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*111*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: 490-108893-4 MSD
Matrix: Water
Analysis Batch: 360479

Client Sample ID: GAC-2 FINAL
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		50.0	53.79		ug/L		108	55 - 147	2	22
Diisopropyl ether	ND		50.0	50.29		ug/L		101	56 - 142	3	22
Ethylbenzene	ND		50.0	52.82		ug/L		106	65 - 139	5	18
Ethyl tert-butyl ether	ND		50.0	52.32		ug/L		105	53 - 138	1	22
Methyl tert-butyl ether	ND		50.0	53.84		ug/L		108	55 - 141	2	24
Tert-amyl methyl ether	ND		50.0	51.25		ug/L		103	47 - 148	3	23
tert-Butyl alcohol (TBA)	ND		500	699.8		ug/L		140	10 - 150	6	47
Toluene	ND		50.0	52.75		ug/L		105	64 - 136	6	18
Xylenes, Total	ND		150	150.8		ug/L		101	69 - 132	5	17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-108893-4 MSD
Matrix: Water
Analysis Batch: 360479

Client Sample ID: GAC-2 FINAL
Prep Type: Total/NA

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*109*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Lab Sample ID: MB 490-359903/6
Matrix: Water
Analysis Batch: 359903

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			08/03/16 11:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*96*		*50 - 150*		*08/03/16 11:07*	*1*

Lab Sample ID: LCS 490-359903/4
Matrix: Water
Analysis Batch: 359903

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]			1000	1090		ug/L		109	66 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*98*		*50 - 150*

Lab Sample ID: LCSD 490-359903/5
Matrix: Water
Analysis Batch: 359903

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]			1000	1027		ug/L		103	66 - 140	6	42

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*99*		*50 - 150*

Lab Sample ID: 490-108893-2 MS
Matrix: Water
Analysis Batch: 359903

Client Sample ID: A/S EFF
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]	ND		1000	1092		ug/L		109	33 - 175		

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) (Continued)

Lab Sample ID: 490-108893-2 MS
Matrix: Water
Analysis Batch: 359903

Client Sample ID: A/S EFF
Prep Type: Total/NA

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*98*		*50 - 150*

Lab Sample ID: 490-108893-2 MSD
Matrix: Water
Analysis Batch: 359903

Client Sample ID: A/S EFF
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		1000	968.0		ug/L		97	33 - 175	12	42

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*97*		*50 - 150*

QC Association Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-108893-1
SDG: 125 Hanover Pike, Hampstead, MD

GC/MS VOA

Analysis Batch: 360479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-108893-1	A/S INF	Total/NA	Water	8260B	
490-108893-2	A/S EFF	Total/NA	Water	8260B	
490-108893-3	GAC-1 EFF	Total/NA	Water	8260B	
490-108893-4	GAC-2 FINAL	Total/NA	Water	8260B	
490-108893-5	MW-8	Total/NA	Water	8260B	
490-108893-6	MW-9	Total/NA	Water	8260B	
490-108893-7	MW-10	Total/NA	Water	8260B	
MB 490-360479/7	Method Blank	Total/NA	Water	8260B	
LCS 490-360479/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-360479/4	Lab Control Sample Dup	Total/NA	Water	8260B	
490-108893-4 MS	GAC-2 FINAL	Total/NA	Water	8260B	
490-108893-4 MSD	GAC-2 FINAL	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 359903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-108893-1	A/S INF	Total/NA	Water	8015C	
490-108893-2	A/S EFF	Total/NA	Water	8015C	
490-108893-3	GAC-1 EFF	Total/NA	Water	8015C	
490-108893-4	GAC-2 FINAL	Total/NA	Water	8015C	
490-108893-5	MW-8	Total/NA	Water	8015C	
490-108893-6	MW-9	Total/NA	Water	8015C	
490-108893-7	MW-10	Total/NA	Water	8015C	
MB 490-359903/6	Method Blank	Total/NA	Water	8015C	
LCS 490-359903/4	Lab Control Sample	Total/NA	Water	8015C	
LCSD 490-359903/5	Lab Control Sample Dup	Total/NA	Water	8015C	
490-108893-2 MS	A/S EFF	Total/NA	Water	8015C	
490-108893-2 MSD	A/S EFF	Total/NA	Water	8015C	

Lab Chronicle

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-108893-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: A/S INF — Lab Sample ID: 490-108893-1

Date Collected: 08/01/16 17:35 — **Matrix: Water**
Date Received: 08/03/16 09:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	360479	08/05/16 03:34	RP	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	359903	08/03/16 15:36	A1B	TAL NSH

Client Sample ID: A/S EFF — Lab Sample ID: 490-108893-2

Date Collected: 08/01/16 17:30 — **Matrix: Water**
Date Received: 08/03/16 09:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	360479	08/05/16 03:08	RP	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	359903	08/03/16 16:08	A1B	TAL NSH

Client Sample ID: GAC-1 EFF — Lab Sample ID: 490-108893-3

Date Collected: 08/01/16 17:25 — **Matrix: Water**
Date Received: 08/03/16 09:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	360479	08/05/16 02:42	RP	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	359903	08/03/16 18:16	A1B	TAL NSH

Client Sample ID: GAC-2 FINAL — Lab Sample ID: 490-108893-4

Date Collected: 08/01/16 17:20 — **Matrix: Water**
Date Received: 08/03/16 09:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	360479	08/05/16 02:15	RP	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	359903	08/03/16 18:48	A1B	TAL NSH

Client Sample ID: MW-8 — Lab Sample ID: 490-108893-5

Date Collected: 08/01/16 17:40 — **Matrix: Water**
Date Received: 08/03/16 09:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	360479	08/05/16 04:53	RP	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	359903	08/03/16 19:20	A1B	TAL NSH

Client Sample ID: MW-9 — Lab Sample ID: 490-108893-6

Date Collected: 08/01/16 17:45 — **Matrix: Water**
Date Received: 08/03/16 09:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	360479	08/05/16 04:27	RP	TAL NSH

Lab Chronicle

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-108893-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-9

Lab Sample ID: 490-108893-6
Date Collected: 08/01/16 17:45
Matrix: Water
Date Received: 08/03/16 09:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015C		1	5 mL	5 mL	359903	08/03/16 19:52	A1B	TAL NSH

Client Sample ID: MW-10

Lab Sample ID: 490-108893-7
Date Collected: 08/01/16 17:50
Matrix: Water
Date Received: 08/03/16 09:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	360479	08/05/16 04:01	RP	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	359903	08/03/16 20:24	A1B	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-108893-1
SDG: 125 Hanover Pike, Hampstead, MD

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
8015C	Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	SW846	TAL NSH

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-108893-1
SDG: 125 Hanover Pike, Hampstead, MD

Laboratory: TestAmerica Nashville

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Maryland	State Program	3	316	03-31-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8015C		Water	Gasoline Range Organics [C6 - C10]
8260B		Water	Benzene
8260B		Water	Diisopropyl ether
8260B		Water	Ethyl tert-butyl ether
8260B		Water	Ethylbenzene
8260B		Water	Methyl tert-butyl ether
8260B		Water	Tert-amyl methyl ether
8260B		Water	tert-Butyl alcohol (TBA)
8260B		Water	Toluene
8260B		Water	Xylenes, Total

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Nashville, TN

COOLER RECEIPT FORM

490-108893 Chain of Custody

Cooler Received/Opened On 8/3/2016 @ 955

Time Samples Removed From Cooler 1300 Time Samples Placed In Storage 1320 (2 Hour Window)

1. Tracking # 7291 (last 4 digits, FedEx) Courier: _fedex_

   IR Gun ID 17960358 pH Strip Lot HC564992 Chlorine Strip Lot 072815A

2. Temperature of rep. sample or temp blank when opened: 5.8 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

   If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) PN

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

   Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

   b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) MSM

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

   b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) MSM

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) MSM

I certify that I attached a label with the unique LIMS number to each container (intial) MSM

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#_____

BIS = Broken in shipment

TestAmerica Nashville
2960 Foster Creighton Drive

Nashville, TN 37204-3719
phone 615.726.0177 fax 615.726.3404

180325

Chain of Custody Record

Loc: 490
108893

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

8/10/2016

BALTIMORE

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: John Canzeri	Site Contact: Mike Parsons	11/10/2015	COC No:
AECOM	Tel/Fax: 301-289-3805	Lab Contact: Salomon, Sherry	Carrier:	1 of 1 COCs
8000 Virginia Manor Rd., Suite 110	Analysis Turnaround Time			Sampler:
Beltsville, Maryland 20705	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
301-289-3900 Phone	TAT if different from Below: Standard			Walk-in Client:
301-289-3901 FAX	☐ 2 weeks			Lab Sampling:
Project Name: 32785.Hampstead.EL	☐ 1 week			
Site: 125 Hanover Pike, Hampstead, MD	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			AECOM's Job #60338398

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	BTEX + Oxy 8260	BTEX/MTBE	TPH-GRO 8015	Sample Specific Notes:
A/S INF	8/1/16	17:35	Grab	W	6	N	N	*		*	-1
A/S EFF		17:36	Grab	W	6	N	N	*		*	2
GAC-1 EFF		17:35	Grab	W	6	N	N	*		*	3
GAC-2 FINAL		17:30	Grab	W	6	N	N		*	*	4
MW-8		17:40	Grab	W	6	N	N	*		*	5
MW-9		17:45	Grab	W	6	N	N	*		*	6
MW-10		17:50	Grab	W	6	N	N	*		*	7
								2	2	2	

Preservation Used: 1=Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

7-Eleven/AECOM EDD

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company: AECOM	Date/Time: 8-2-2016/1500	Received by:	Company: TestAmerica	Date/Time: 8-2-2016/1500
Relinquished by:	Company: TestAmerica	Date/Time: 8-2-2016/1525	Received by:	Company: TAN	Date/Time: 8-3-16 @ 0955 5.0c
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Login Sample Receipt Checklist

Client: AECOM

Job Number: 490-108893-1
SDG Number: 125 Hanover Pike, Hampstead, MD

Login Number: 108893
List Number: 1
Creator: McBride, Mike

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-110107-1
TestAmerica SDG: 125 Hanover Pike, Hampstead, MD
Client Project/Site: 32785.Hampstead.EL (MD)

For:
AECOM
8000 Virginia Manor Road
Suite 110
Beltsville, Maryland 20705

Attn: Mr. John Canzeri

Sherry M Salomon

Authorized for release by:
8/26/2016 2:02:37 PM

Sherry Salomon, Manager of Project Management Assistants
(615)301-5033
sherry.salomon@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-110107-1
SDG: 125 Hanover Pike, Hampstead, MD

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-110107-1	A/S INF	Water	08/16/16 15:05	08/19/16 09:10
490-110107-2	A/S EFF	Water	08/16/16 15:01	08/19/16 09:10
490-110107-3	GAC-1 EFF	Water	08/16/16 14:55	08/19/16 09:10
490-110107-4	GAC-2 FINAL	Water	08/16/16 14:52	08/19/16 09:10
490-110107-5	MW-8	Water	08/16/16 15:45	08/19/16 09:10
490-110107-6	MW-9	Water	08/16/16 16:35	08/19/16 09:10
490-110107-7	MW-10	Water	08/16/16 15:11	08/19/16 09:10

Case Narrative

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-110107-1
SDG: 125 Hanover Pike, Hampstead, MD

Job ID: 490-110107-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-110107-1

Comments
No additional comments.

Receipt
The samples were received on 8/19/2016 at 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.2º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-110107-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: A/S INF

Lab Sample ID: 490-110107-1

Date Collected: 08/16/16 15:05
Matrix: Water
Date Received: 08/19/16 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/24/16 08:38	1
Diisopropyl ether	ND		2.00		ug/L			08/24/16 08:38	1
Ethylbenzene	ND		1.00		ug/L			08/24/16 08:38	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/24/16 08:38	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/24/16 08:38	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/24/16 08:38	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/24/16 08:38	1
Toluene	ND		1.00		ug/L			08/24/16 08:38	1
Xylenes, Total	ND		3.00		ug/L			08/24/16 08:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*08/24/16 08:38*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*08/24/16 08:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*79*		*70 - 130*		*08/24/16 08:38*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*08/24/16 08:38*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			08/26/16 01:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*89*		*50 - 150*		*08/26/16 01:43*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-110107-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: A/S EFF

Lab Sample ID: 490-110107-2

Date Collected: 08/16/16 15:01
Matrix: Water
Date Received: 08/19/16 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/24/16 05:53	1
Diisopropyl ether	ND		2.00		ug/L			08/24/16 05:53	1
Ethylbenzene	ND		1.00		ug/L			08/24/16 05:53	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/24/16 05:53	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/24/16 05:53	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/24/16 05:53	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/24/16 05:53	1
Toluene	ND		1.00		ug/L			08/24/16 05:53	1
Xylenes, Total	ND		3.00		ug/L			08/24/16 05:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*08/24/16 05:53*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*08/24/16 05:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*81*		*70 - 130*		*08/24/16 05:53*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*08/24/16 05:53*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			08/25/16 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*92*		*50 - 150*		*08/25/16 20:06*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-110107-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: GAC-1 EFF

Lab Sample ID: 490-110107-3

Date Collected: 08/16/16 14:55
Matrix: Water
Date Received: 08/19/16 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/24/16 06:21	1
Diisopropyl ether	ND		2.00		ug/L			08/24/16 06:21	1
Ethylbenzene	ND		1.00		ug/L			08/24/16 06:21	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/24/16 06:21	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/24/16 06:21	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/24/16 06:21	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/24/16 06:21	1
Toluene	ND		1.00		ug/L			08/24/16 06:21	1
Xylenes, Total	ND		3.00		ug/L			08/24/16 06:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*08/24/16 06:21*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*08/24/16 06:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*81*		*70 - 130*		*08/24/16 06:21*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/24/16 06:21*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			08/25/16 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*94*		*50 - 150*		*08/25/16 20:37*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-110107-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: GAC-2 FINAL

Lab Sample ID: 490-110107-4

Date Collected: 08/16/16 14:52
Matrix: Water
Date Received: 08/19/16 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/24/16 06:48	1
Ethylbenzene	ND		1.00		ug/L			08/24/16 06:48	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/24/16 06:48	1
Toluene	ND		1.00		ug/L			08/24/16 06:48	1
Xylenes, Total	ND		3.00		ug/L			08/24/16 06:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*08/24/16 06:48*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*08/24/16 06:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*70 - 130*		*08/24/16 06:48*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*08/24/16 06:48*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			08/25/16 22:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*94*		*50 - 150*		*08/25/16 22:39*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-110107-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-8

Lab Sample ID: 490-110107-5

Date Collected: 08/16/16 15:45
Matrix: Water
Date Received: 08/19/16 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/24/16 07:16	1
Diisopropyl ether	**3.23**		2.00		ug/L			08/24/16 07:16	1
Ethylbenzene	ND		1.00		ug/L			08/24/16 07:16	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/24/16 07:16	1
Methyl tert-butyl ether	**125**		1.00		ug/L			08/24/16 07:16	1
Tert-amyl methyl ether	**2.06**		1.00		ug/L			08/24/16 07:16	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/24/16 07:16	1
Toluene	ND		1.00		ug/L			08/24/16 07:16	1
Xylenes, Total	ND		3.00		ug/L			08/24/16 07:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*08/24/16 07:16*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*08/24/16 07:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*81*		*70 - 130*		*08/24/16 07:16*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/24/16 07:16*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			08/25/16 23:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*92*		*50 - 150*		*08/25/16 23:10*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-110107-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-9

Lab Sample ID: 490-110107-6

Date Collected: 08/16/16 16:35
Matrix: Water
Date Received: 08/19/16 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/24/16 07:43	1
Diisopropyl ether	ND		2.00		ug/L			08/24/16 07:43	1
Ethylbenzene	ND		1.00		ug/L			08/24/16 07:43	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/24/16 07:43	1
Methyl tert-butyl ether	**2.49**		1.00		ug/L			08/24/16 07:43	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/24/16 07:43	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/24/16 07:43	1
Toluene	ND		1.00		ug/L			08/24/16 07:43	1
Xylenes, Total	ND		3.00		ug/L			08/24/16 07:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*08/24/16 07:43*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*08/24/16 07:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*70 - 130*		*08/24/16 07:43*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*08/24/16 07:43*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			08/25/16 23:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*91*		*50 - 150*		*08/25/16 23:40*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-110107-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-10

Lab Sample ID: 490-110107-7

Date Collected: 08/16/16 15:11
Matrix: Water
Date Received: 08/19/16 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/24/16 08:10	1
Diisopropyl ether	ND		2.00		ug/L			08/24/16 08:10	1
Ethylbenzene	ND		1.00		ug/L			08/24/16 08:10	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/24/16 08:10	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/24/16 08:10	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/24/16 08:10	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/24/16 08:10	1
Toluene	ND		1.00		ug/L			08/24/16 08:10	1
Xylenes, Total	ND		3.00		ug/L			08/24/16 08:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*08/24/16 08:10*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*08/24/16 08:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*70 - 130*		*08/24/16 08:10*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*08/24/16 08:10*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			08/26/16 00:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*93*		*50 - 150*		*08/26/16 00:11*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-364842/6
Matrix: Water
Analysis Batch: 364842

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/24/16 01:20	1
Diisopropyl ether	ND		2.00		ug/L			08/24/16 01:20	1
Ethylbenzene	ND		1.00		ug/L			08/24/16 01:20	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/24/16 01:20	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/24/16 01:20	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/24/16 01:20	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/24/16 01:20	1
Toluene	ND		1.00		ug/L			08/24/16 01:20	1
Xylenes, Total	ND		3.00		ug/L			08/24/16 01:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*08/24/16 01:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*70 - 130*		*08/24/16 01:20*	*1*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*08/24/16 01:20*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/24/16 01:20*	*1*

Lab Sample ID: LCS 490-364842/3
Matrix: Water
Analysis Batch: 364842

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	55.57		ug/L		111	70 - 130
Diisopropyl ether	50.0	43.15		ug/L		86	66 - 142
Ethylbenzene	50.0	55.25		ug/L		110	70 - 130
Ethyl tert-butyl ether	50.0	43.11		ug/L		86	63 - 135
Methyl tert-butyl ether	50.0	45.40		ug/L		91	70 - 130
Tert-amyl methyl ether	50.0	50.16		ug/L		100	63 - 135
tert-Butyl alcohol (TBA)	500	386.8		ug/L		77	12 - 150
Toluene	50.0	56.08		ug/L		112	70 - 130
Xylenes, Total	150	153.4		ug/L		102	70 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 490-364842/4
Matrix: Water
Analysis Batch: 364842

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	56.45		ug/L		113	70 - 130	2	12
Diisopropyl ether	50.0	43.10		ug/L		86	66 - 142	0	14
Ethylbenzene	50.0	54.61		ug/L		109	70 - 130	1	12
Ethyl tert-butyl ether	50.0	43.60		ug/L		87	63 - 135	1	15
Methyl tert-butyl ether	50.0	47.29		ug/L		95	70 - 130	4	16

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-364842/4 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 364842

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tert-amyl methyl ether			50.0	50.66		ug/L		101	63 - 135	1	15
tert-Butyl alcohol (TBA)			500	395.7		ug/L		79	12 - 150	2	46
Toluene			50.0	55.41		ug/L		111	70 - 130	1	13
Xylenes, Total			150	153.0		ug/L		102	70 - 132	0	11

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

Lab Sample ID: 490-110107-4 MS — **Client Sample ID: GAC-2 FINAL**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 364842

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	ND		50.0	49.77		ug/L		100	55 - 147		
Diisopropyl ether	ND		50.0	37.34		ug/L		75	56 - 142		
Ethylbenzene	ND		50.0	47.33		ug/L		95	65 - 139		
Ethyl tert-butyl ether	ND		50.0	36.52		ug/L		73	53 - 138		
Methyl tert-butyl ether	ND		50.0	37.87		ug/L		76	55 - 141		
Tert-amyl methyl ether	ND		50.0	41.53		ug/L		83	47 - 148		
tert-Butyl alcohol (TBA)	ND		500	404.1		ug/L		81	10 - 150		
Toluene	ND		50.0	49.06		ug/L		98	64 - 136		
Xylenes, Total	ND		150	132.7		ug/L		88	69 - 132		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 130*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: 490-110107-4 MSD — **Client Sample ID: GAC-2 FINAL**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 364842

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		50.0	52.72		ug/L		105	55 - 147	6	22
Diisopropyl ether	ND		50.0	41.69		ug/L		83	56 - 142	11	22
Ethylbenzene	ND		50.0	50.45		ug/L		101	65 - 139	6	18
Ethyl tert-butyl ether	ND		50.0	41.80		ug/L		84	53 - 138	13	22
Methyl tert-butyl ether	ND		50.0	47.17		ug/L		94	55 - 141	22	24
Tert-amyl methyl ether	ND		50.0	51.17		ug/L		102	47 - 148	21	23
tert-Butyl alcohol (TBA)	ND		500	617.6		ug/L		124	10 - 150	42	47
Toluene	ND		50.0	51.88		ug/L		104	64 - 136	6	18
Xylenes, Total	ND		150	141.0		ug/L		94	69 - 132	6	17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-110107-4 MSD
Matrix: Water
Analysis Batch: 364842

Client Sample ID: GAC-2 FINAL
Prep Type: Total/NA

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Lab Sample ID: MB 490-365322/20
Matrix: Water
Analysis Batch: 365322

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			08/25/16 19:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*93*		*50 - 150*		*08/25/16 19:35*	*1*

Lab Sample ID: LCS 490-365322/8
Matrix: Water
Analysis Batch: 365322

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]			1000	1030		ug/L		103	66 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*119*		*50 - 150*

Lab Sample ID: LCSD 490-365322/9
Matrix: Water
Analysis Batch: 365322

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]			1000	1011		ug/L		101	66 - 140	2	42

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*117*		*50 - 150*

Lab Sample ID: 490-110107-3 MS
Matrix: Water
Analysis Batch: 365322

Client Sample ID: GAC-1 EFF
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]	ND		1000	939.4		ug/L		94	33 - 175		

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) (Continued)

Lab Sample ID: 490-110107-3 MS
Matrix: Water
Analysis Batch: 365322

Client Sample ID: GAC-1 EFF
Prep Type: Total/NA

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*116*		*50 - 150*

Lab Sample ID: 490-110107-3 MSD
Matrix: Water
Analysis Batch: 365322

Client Sample ID: GAC-1 EFF
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		1000	1051		ug/L		105	33 - 175	11	42

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*113*		*50 - 150*

QC Association Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-110107-1
SDG: 125 Hanover Pike, Hampstead, MD

GC/MS VOA

Analysis Batch: 364842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-110107-1	A/S INF	Total/NA	Water	8260B	
490-110107-2	A/S EFF	Total/NA	Water	8260B	
490-110107-3	GAC-1 EFF	Total/NA	Water	8260B	
490-110107-4	GAC-2 FINAL	Total/NA	Water	8260B	
490-110107-5	MW-8	Total/NA	Water	8260B	
490-110107-6	MW-9	Total/NA	Water	8260B	
490-110107-7	MW-10	Total/NA	Water	8260B	
MB 490-364842/6	Method Blank	Total/NA	Water	8260B	
LCS 490-364842/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-364842/4	Lab Control Sample Dup	Total/NA	Water	8260B	
490-110107-4 MS	GAC-2 FINAL	Total/NA	Water	8260B	
490-110107-4 MSD	GAC-2 FINAL	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 365322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-110107-1	A/S INF	Total/NA	Water	8015C	
490-110107-2	A/S EFF	Total/NA	Water	8015C	
490-110107-3	GAC-1 EFF	Total/NA	Water	8015C	
490-110107-4	GAC-2 FINAL	Total/NA	Water	8015C	
490-110107-5	MW-8	Total/NA	Water	8015C	
490-110107-6	MW-9	Total/NA	Water	8015C	
490-110107-7	MW-10	Total/NA	Water	8015C	
MB 490-365322/20	Method Blank	Total/NA	Water	8015C	
LCS 490-365322/8	Lab Control Sample	Total/NA	Water	8015C	
LCSD 490-365322/9	Lab Control Sample Dup	Total/NA	Water	8015C	
490-110107-3 MS	GAC-1 EFF	Total/NA	Water	8015C	
490-110107-3 MSD	GAC-1 EFF	Total/NA	Water	8015C	

Lab Chronicle

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-110107-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: A/S INF — Lab Sample ID: 490-110107-1

Date Collected: 08/16/16 15:05 — **Matrix: Water**
Date Received: 08/19/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	364842	08/24/16 08:38	SLM	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	365322	08/26/16 01:43	GWM	TAL NSH

Client Sample ID: A/S EFF — Lab Sample ID: 490-110107-2

Date Collected: 08/16/16 15:01 — **Matrix: Water**
Date Received: 08/19/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	364842	08/24/16 05:53	SLM	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	365322	08/25/16 20:06	GWM	TAL NSH

Client Sample ID: GAC-1 EFF — Lab Sample ID: 490-110107-3

Date Collected: 08/16/16 14:55 — **Matrix: Water**
Date Received: 08/19/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	364842	08/24/16 06:21	SLM	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	365322	08/25/16 20:37	GWM	TAL NSH

Client Sample ID: GAC-2 FINAL — Lab Sample ID: 490-110107-4

Date Collected: 08/16/16 14:52 — **Matrix: Water**
Date Received: 08/19/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	364842	08/24/16 06:48	SLM	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	365322	08/25/16 22:39	GWM	TAL NSH

Client Sample ID: MW-8 — Lab Sample ID: 490-110107-5

Date Collected: 08/16/16 15:45 — **Matrix: Water**
Date Received: 08/19/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	364842	08/24/16 07:16	SLM	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	365322	08/25/16 23:10	GWM	TAL NSH

Client Sample ID: MW-9 — Lab Sample ID: 490-110107-6

Date Collected: 08/16/16 16:35 — **Matrix: Water**
Date Received: 08/19/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	364842	08/24/16 07:43	SLM	TAL NSH

Lab Chronicle

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-110107-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-9

Lab Sample ID: 490-110107-6

Date Collected: 08/16/16 16:35
Matrix: Water
Date Received: 08/19/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015C		1	5 mL	5 mL	365322	08/25/16 23:40	GWM	TAL NSH

Client Sample ID: MW-10

Lab Sample ID: 490-110107-7

Date Collected: 08/16/16 15:11
Matrix: Water
Date Received: 08/19/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	364842	08/24/16 08:10	SLM	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	365322	08/26/16 00:11	GWM	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-110107-1
SDG: 125 Hanover Pike, Hampstead, MD

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
8015C	Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	SW846	TAL NSH

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-110107-1
SDG: 125 Hanover Pike, Hampstead, MD

Laboratory: TestAmerica Nashville

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Maryland	State Program	3	316	03-31-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8015C		Water	Gasoline Range Organics [C6 - C10]
8260B		Water	Benzene
8260B		Water	Diisopropyl ether
8260B		Water	Ethyl tert-butyl ether
8260B		Water	Ethylbenzene
8260B		Water	Methyl tert-butyl ether
8260B		Water	Tert-amyl methyl ether
8260B		Water	tert-Butyl alcohol (TBA)
8260B		Water	Toluene
8260B		Water	Xylenes, Total

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

490-110107 Chain of Custody

Baltimore

COOLER RECEIPT FORM

Cooler Received/Opened On 8/19/2016 @ 0910

Time Samples Removed From Cooler 1319 Time Samples Placed In Storage 1349 (2 Hour Window)

1. Tracking # 6792 (last 4 digits, FedEx) Courier: FedEx

   IR Gun ID 17960358 pH Strip Lot HC58117 Chlorine Strip Lot 71130

2. Temperature of rep. sample or temp blank when opened: 1-2 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

   If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) D

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

   Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

   b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) MDM

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA

   b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) MDM

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) MDM

I certify that I attached a label with the unique LIMS number to each container (intial) MDM

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#_____

Proj #on labels. MDM

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 12/15/15

8/26/2016

Loc: 490
110107

8/26/2016

TestAmerica Nashville
2960 Foster Creighton Drive

Nashville, TN 37204-3719
phone 615.726.0177 fax 615.726.3404

180325

Chain of Custody Record

TestAm
THE LEADER IN ENVIR

TestAmerica Laboratories, Inc.

BALTIMORE

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

8/16/16

Client Contact	Project Manager: John Canzeri	Site Contact: Mike Parsons	~~11/10/2015~~	COC No:
AECOM	Tel/Fax: 301-289-3805	Lab Contact: Salomon, Sherry	Carrier:	1 of 1 COCs
8000 Virginia Manor Rd., Suite 110	Analysis Turnaround Time			Sampler: M. Parsons
Beltsville, Maryland 20705	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
301-289-3900 Phone	TAT if different from Below: Standard			Walk-in Client:
301-289-3901 FAX	☐ 2 weeks			Lab Sampling:
Project Name: 32785.Hampstead.EL	☐ 1 week			
Site: 125 Hanover Pike, Hampstead, MD	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			AECOM's Job #60338398

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	BTEX + Oxy 8260	BTEX/MTBE	TPH-GRO 8015	Sample Specific Notes:
A/S INF	8/16/16	1505	Grab	W	6	N	N	*		*	-1
A/S EFF		1501	Grab	W	6	N	N	*		*	2
GAC-1 EFF		1455	Grab	W	6	N	N	*		*	3
GAC-2 FINAL		1452	Grab	W	6	N	N		*	*	4
MW-8		1545	Grab	W	6	N	N	*		*	5
MW-9		1635	Grab	W	6	N	N	*		*	6
MW-10		1511	Grab	W	6	N	N	*		*	7
								2	2	2	

Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

7-Eleven/AECOM EDD

Cooler bottle order #49489

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company: AECOM	Date/Time: 8/17/16	Received by:	Company:	Date/Time: 8/17/16 1400
Relinquished by:	Company: TestAmerica	Date/Time: 8-17-2016 22	Received by:	Company: TAN	Date/Time: 8-19-16@ 0910 1.2c
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Login Sample Receipt Checklist

Client: AECOM

Job Number: 490-110107-1

SDG Number: 125 Hanover Pike, Hampstead, MD

Login Number: 110107

List Number: 1

Creator: McBride, Mike

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-111235-1
TestAmerica SDG: 125 Hanover Pike, Hampstead, MD
Client Project/Site: 32785.Hampstead.EL (MD)

For:
AECOM
8000 Virginia Manor Road
Suite 110
Beltsville, Maryland 20705

Attn: Mr. John Canzeri

Sherry M Salomon

Authorized for release by:
9/14/2016 3:19:55 PM

Sherry Salomon, Manager of Project Management Assistants
(615)301-5033
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LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-111235-1	A/S INF	Water	09/03/16 11:19	09/07/16 09:25
490-111235-2	A/S EFF	Water	09/03/16 11:16	09/07/16 09:25
490-111235-3	GAC-1 EFF	Water	09/03/16 11:15	09/07/16 09:25
490-111235-4	GAC-2 FINAL	Water	09/03/16 11:09	09/07/16 09:25
490-111235-5	MW-8	Water	09/03/16 11:23	09/07/16 09:25
490-111235-6	MW-9	Water	09/03/16 11:24	09/07/16 09:25
490-111235-7	MW-10	Water	09/03/16 11:25	09/07/16 09:25

Case Narrative

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

Job ID: 490-111235-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-111235-1

Comments
No additional comments.

Receipt
The samples were received on 9/7/2016 at 9:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.6º C.

Receipt Exceptions
The container labels for the following samples did not match the information listed on the Chain-of-Custody (COC): A/S INF (490-111235-1), A/S EFF (490-111235-2), GAC-1 EFF (490-111235-3), GAC-2 FINAL (490-111235-4), MW-8 (490-111235-5), MW-9 (490-111235-6) and MW-10 (490-111235-7). The sample collection times were not listed on the container labels. The samples were logged per the collection times listed on the COC.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: A/S INF

Date Collected: 09/03/16 11:19
Date Received: 09/07/16 09:25

Lab Sample ID: 490-111235-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			09/10/16 07:06	1
Diisopropyl ether	ND		2.00		ug/L			09/10/16 07:06	1
Ethylbenzene	ND		1.00		ug/L			09/10/16 07:06	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/10/16 07:06	1
Methyl tert-butyl ether	**16.9**		1.00		ug/L			09/10/16 07:06	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/10/16 07:06	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/10/16 07:06	1
Toluene	ND		1.00		ug/L			09/10/16 07:06	1
Xylenes, Total	ND		3.00		ug/L			09/10/16 07:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*		*09/10/16 07:06*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*09/10/16 07:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*09/10/16 07:06*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*09/10/16 07:06*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			09/08/16 23:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*106*		*50 - 150*		*09/08/16 23:50*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: A/S EFF

Date Collected: 09/03/16 11:16
Date Received: 09/07/16 09:25

Lab Sample ID: 490-111235-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			09/10/16 07:34	1
Diisopropyl ether	ND		2.00		ug/L			09/10/16 07:34	1
Ethylbenzene	ND		1.00		ug/L			09/10/16 07:34	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/10/16 07:34	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/10/16 07:34	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/10/16 07:34	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/10/16 07:34	1
Toluene	ND		1.00		ug/L			09/10/16 07:34	1
Xylenes, Total	ND		3.00		ug/L			09/10/16 07:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*		*09/10/16 07:34*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*09/10/16 07:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*09/10/16 07:34*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*09/10/16 07:34*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			09/09/16 00:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*104*		*50 - 150*		*09/09/16 00:20*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: GAC-1 EFF

Lab Sample ID: 490-111235-3

Date Collected: 09/03/16 11:15
Matrix: Water
Date Received: 09/07/16 09:25

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			09/10/16 08:02	1
Diisopropyl ether	ND		2.00		ug/L			09/10/16 08:02	1
Ethylbenzene	ND		1.00		ug/L			09/10/16 08:02	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/10/16 08:02	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/10/16 08:02	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/10/16 08:02	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/10/16 08:02	1
Toluene	ND		1.00		ug/L			09/10/16 08:02	1
Xylenes, Total	ND		3.00		ug/L			09/10/16 08:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*		*09/10/16 08:02*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*09/10/16 08:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*09/10/16 08:02*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*09/10/16 08:02*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			09/09/16 00:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*105*		*50 - 150*		*09/09/16 00:51*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: GAC-2 FINAL

Lab Sample ID: 490-111235-4

Date Collected: 09/03/16 11:09
Matrix: Water
Date Received: 09/07/16 09:25

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			09/10/16 06:37	1
Ethylbenzene	ND		1.00		ug/L			09/10/16 06:37	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/10/16 06:37	1
Toluene	ND		1.00		ug/L			09/10/16 06:37	1
Xylenes, Total	ND		3.00		ug/L			09/10/16 06:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*09/10/16 06:37*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*09/10/16 06:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*09/10/16 06:37*	*1*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*		*09/10/16 06:37*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			09/09/16 01:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*103*		*50 - 150*		*09/09/16 01:22*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-8

Date Collected: 09/03/16 11:23
Date Received: 09/07/16 09:25

Lab Sample ID: 490-111235-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			09/13/16 04:19	1
Diisopropyl ether	**3.42**		2.00		ug/L			09/13/16 04:19	1
Ethylbenzene	ND		1.00		ug/L			09/13/16 04:19	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/13/16 04:19	1
Methyl tert-butyl ether	**84.4**		1.00		ug/L			09/13/16 04:19	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/13/16 04:19	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/13/16 04:19	1
Toluene	ND		1.00		ug/L			09/13/16 04:19	1
Xylenes, Total	ND		3.00		ug/L			09/13/16 04:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*09/13/16 04:19*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*09/13/16 04:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*09/13/16 04:19*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*		*09/13/16 04:19*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			09/09/16 01:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*103*		*50 - 150*		*09/09/16 01:52*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-9

Lab Sample ID: 490-111235-6

Date Collected: 09/03/16 11:24
Matrix: Water
Date Received: 09/07/16 09:25

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			09/13/16 04:48	1
Diisopropyl ether	**2.34**		2.00		ug/L			09/13/16 04:48	1
Ethylbenzene	ND		1.00		ug/L			09/13/16 04:48	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/13/16 04:48	1
Methyl tert-butyl ether	**189**		1.00		ug/L			09/13/16 04:48	1
Tert-amyl methyl ether	**3.29**		1.00		ug/L			09/13/16 04:48	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/13/16 04:48	1
Toluene	ND		1.00		ug/L			09/13/16 04:48	1
Xylenes, Total	ND		3.00		ug/L			09/13/16 04:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*		*09/13/16 04:48*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*09/13/16 04:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*09/13/16 04:48*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*09/13/16 04:48*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	**129**		100		ug/L			09/09/16 02:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*104*		*50 - 150*		*09/09/16 02:23*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-10

Date Collected: 09/03/16 11:25
Date Received: 09/07/16 09:25

Lab Sample ID: 490-111235-7

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			09/09/16 20:13	1
Diisopropyl ether	ND		2.00		ug/L			09/09/16 20:13	1
Ethylbenzene	ND		1.00		ug/L			09/09/16 20:13	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/09/16 20:13	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/09/16 20:13	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/09/16 20:13	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/09/16 20:13	1
Toluene	ND		1.00		ug/L			09/09/16 20:13	1
Xylenes, Total	ND		3.00		ug/L			09/09/16 20:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*		*09/09/16 20:13*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*09/09/16 20:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*09/09/16 20:13*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*09/09/16 20:13*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			09/09/16 02:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*102*		*50 - 150*		*09/09/16 02:54*	*1*

QC Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-369001/7
Matrix: Water
Analysis Batch: 369001

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			09/09/16 17:23	1
Diisopropyl ether	ND		2.00		ug/L			09/09/16 17:23	1
Ethylbenzene	ND		1.00		ug/L			09/09/16 17:23	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/09/16 17:23	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/09/16 17:23	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/09/16 17:23	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/09/16 17:23	1
Toluene	ND		1.00		ug/L			09/09/16 17:23	1
Xylenes, Total	ND		3.00		ug/L			09/09/16 17:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*09/09/16 17:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*09/09/16 17:23*	*1*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*		*09/09/16 17:23*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*09/09/16 17:23*	*1*

Lab Sample ID: LCS 490-369001/3
Matrix: Water
Analysis Batch: 369001

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	19.31		ug/L		97	70 - 130
Diisopropyl ether	20.0	19.44		ug/L		97	66 - 142
Ethylbenzene	20.0	19.96		ug/L		100	70 - 130
Ethyl tert-butyl ether	20.0	18.25		ug/L		91	63 - 135
Methyl tert-butyl ether	20.0	17.51		ug/L		88	70 - 130
Tert-amyl methyl ether	20.0	18.43		ug/L		92	63 - 135
tert-Butyl alcohol (TBA)	200	187.5		ug/L		94	12 - 150
Toluene	20.0	20.19		ug/L		101	70 - 130
Xylenes, Total	40.0	40.29		ug/L		101	70 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 490-369001/4
Matrix: Water
Analysis Batch: 369001

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	20.0	18.80		ug/L		94	70 - 130	3	12
Diisopropyl ether	20.0	19.13		ug/L		96	66 - 142	2	14
Ethylbenzene	20.0	19.39		ug/L		97	70 - 130	3	12
Ethyl tert-butyl ether	20.0	18.04		ug/L		90	63 - 135	1	15
Methyl tert-butyl ether	20.0	17.98		ug/L		90	70 - 130	3	16

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-369001/4
Matrix: Water
Analysis Batch: 369001

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tert-amyl methyl ether			20.0	18.74		ug/L		94	63 - 135	2	15
tert-Butyl alcohol (TBA)			200	199.5		ug/L		100	12 - 150	6	46
Toluene			20.0	19.37		ug/L		97	70 - 130	4	13
Xylenes, Total			40.0	39.06		ug/L		98	70 - 132	3	11

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*93*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: 490-111019-B-2 MS
Matrix: Water
Analysis Batch: 369001

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	2.75		20.0	25.27		ug/L		113	55 - 147		
Diisopropyl ether	ND		20.0	21.91		ug/L		108	56 - 142		
Ethylbenzene	ND		20.0	23.31		ug/L		115	65 - 139		
Ethyl tert-butyl ether	ND		20.0	19.65		ug/L		98	53 - 138		
Methyl tert-butyl ether	1.60		20.0	19.84		ug/L		91	55 - 141		
Tert-amyl methyl ether	ND		20.0	19.81		ug/L		99	47 - 148		
tert-Butyl alcohol (TBA)	82.6		200	245.1		ug/L		81	10 - 150		
Toluene	ND		20.0	23.85		ug/L		119	64 - 136		
Xylenes, Total	ND		40.0	46.56		ug/L		116	69 - 132		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*93*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

Lab Sample ID: 490-111019-C-2 MSD
Matrix: Water
Analysis Batch: 369001

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	2.75		20.0	24.04		ug/L		106	55 - 147	5	22
Diisopropyl ether	ND		20.0	20.96		ug/L		103	56 - 142	4	22
Ethylbenzene	ND		20.0	22.42		ug/L		110	65 - 139	4	18
Ethyl tert-butyl ether	ND		20.0	19.13		ug/L		96	53 - 138	3	22
Methyl tert-butyl ether	1.60		20.0	19.01		ug/L		87	55 - 141	4	24
Tert-amyl methyl ether	ND		20.0	18.82		ug/L		94	47 - 148	5	23
tert-Butyl alcohol (TBA)	82.6		200	258.1		ug/L		88	10 - 150	5	47
Toluene	ND		20.0	22.67		ug/L		113	64 - 136	5	18
Xylenes, Total	ND		40.0	44.73		ug/L		112	69 - 132	4	17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-111019-C-2 MSD
Matrix: Water
Analysis Batch: 369001

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*93*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

Lab Sample ID: MB 490-369059/7
Matrix: Water
Analysis Batch: 369059

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			09/10/16 06:09	1
Diisopropyl ether	ND		2.00		ug/L			09/10/16 06:09	1
Ethylbenzene	ND		1.00		ug/L			09/10/16 06:09	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/10/16 06:09	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/10/16 06:09	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/10/16 06:09	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/10/16 06:09	1
Toluene	ND		1.00		ug/L			09/10/16 06:09	1
Xylenes, Total	ND		3.00		ug/L			09/10/16 06:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*09/10/16 06:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*09/10/16 06:09*	*1*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*		*09/10/16 06:09*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*09/10/16 06:09*	*1*

Lab Sample ID: LCS 490-369059/3
Matrix: Water
Analysis Batch: 369059

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	20.18		ug/L		101	70 - 130
Diisopropyl ether	20.0	20.05		ug/L		100	66 - 142
Ethylbenzene	20.0	20.65		ug/L		103	70 - 130
Ethyl tert-butyl ether	20.0	18.32		ug/L		92	63 - 135
Methyl tert-butyl ether	20.0	17.27		ug/L		86	70 - 130
Tert-amyl methyl ether	20.0	17.74		ug/L		89	63 - 135
tert-Butyl alcohol (TBA)	200	171.8		ug/L		86	12 - 150
Toluene	20.0	21.09		ug/L		105	70 - 130
Xylenes, Total	40.0	41.42		ug/L		104	70 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-369059/4
Matrix: Water
Analysis Batch: 369059

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	20.0	20.11		ug/L		101	70 - 130	0	12
Diisopropyl ether	20.0	19.70		ug/L		99	66 - 142	2	14
Ethylbenzene	20.0	20.94		ug/L		105	70 - 130	1	12
Ethyl tert-butyl ether	20.0	18.41		ug/L		92	63 - 135	0	15
Methyl tert-butyl ether	20.0	17.23		ug/L		86	70 - 130	0	16
Tert-amyl methyl ether	20.0	18.32		ug/L		92	63 - 135	3	15
tert-Butyl alcohol (TBA)	200	175.4		ug/L		88	12 - 150	2	46
Toluene	20.0	21.31		ug/L		107	70 - 130	1	13
Xylenes, Total	40.0	42.01		ug/L		105	70 - 132	1	11

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*93*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

Lab Sample ID: 490-111235-4 MS
Matrix: Water
Analysis Batch: 369059

Client Sample ID: GAC-2 FINAL
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		20.0	22.07		ug/L		110	55 - 147
Diisopropyl ether	ND		20.0	21.18		ug/L		106	56 - 142
Ethylbenzene	ND		20.0	22.39		ug/L		112	65 - 139
Ethyl tert-butyl ether	ND		20.0	19.18		ug/L		96	53 - 138
Methyl tert-butyl ether	ND		20.0	18.57		ug/L		93	55 - 141
Tert-amyl methyl ether	ND		20.0	18.33		ug/L		92	47 - 148
tert-Butyl alcohol (TBA)	ND		200	168.9		ug/L		84	10 - 150
Toluene	ND		20.0	23.01		ug/L		115	64 - 136
Xylenes, Total	ND		40.0	44.36		ug/L		111	69 - 132

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: 490-111235-4 MSD
Matrix: Water
Analysis Batch: 369059

Client Sample ID: GAC-2 FINAL
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		20.0	20.90		ug/L		104	55 - 147	5	22
Diisopropyl ether	ND		20.0	20.08		ug/L		100	56 - 142	5	22
Ethylbenzene	ND		20.0	21.31		ug/L		107	65 - 139	5	18
Ethyl tert-butyl ether	ND		20.0	18.68		ug/L		93	53 - 138	3	22
Methyl tert-butyl ether	ND		20.0	17.66		ug/L		88	55 - 141	5	24

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-111235-4 MSD — **Client Sample ID: GAC-2 FINAL**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 369059

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tert-amyl methyl ether	ND		20.0	18.74		ug/L		94	47 - 148	2	23
tert-Butyl alcohol (TBA)	ND		200	191.9		ug/L		96	10 - 150	13	47
Toluene	ND		20.0	21.63		ug/L		108	64 - 136	6	18
Xylenes, Total	ND		40.0	42.46		ug/L		106	69 - 132	4	17

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 490-369543/7 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 369543

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			09/13/16 01:57	1
Diisopropyl ether	ND		2.00		ug/L			09/13/16 01:57	1
Ethylbenzene	ND		1.00		ug/L			09/13/16 01:57	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/13/16 01:57	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/13/16 01:57	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/13/16 01:57	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/13/16 01:57	1
Toluene	ND		1.00		ug/L			09/13/16 01:57	1
Xylenes, Total	ND		3.00		ug/L			09/13/16 01:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*09/13/16 01:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*		*09/13/16 01:57*	*1*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*		*09/13/16 01:57*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*09/13/16 01:57*	*1*

Lab Sample ID: LCS 490-369543/3 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 369543

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	19.12		ug/L		96	70 - 130
Diisopropyl ether	20.0	18.95		ug/L		95	66 - 142
Ethylbenzene	20.0	19.46		ug/L		97	70 - 130
Ethyl tert-butyl ether	20.0	17.72		ug/L		89	63 - 135
Methyl tert-butyl ether	20.0	16.97		ug/L		85	70 - 130
Tert-amyl methyl ether	20.0	17.65		ug/L		88	63 - 135
tert-Butyl alcohol (TBA)	200	170.2		ug/L		85	12 - 150
Toluene	20.0	20.07		ug/L		100	70 - 130
Xylenes, Total	40.0	39.14		ug/L		98	70 - 132

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-369543/3
Matrix: Water
Analysis Batch: 369543

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*93*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 490-369543/4
Matrix: Water
Analysis Batch: 369543

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	20.0	20.12		ug/L		101	70 - 130	5	12
Diisopropyl ether	20.0	19.62		ug/L		98	66 - 142	3	14
Ethylbenzene	20.0	20.55		ug/L		103	70 - 130	5	12
Ethyl tert-butyl ether	20.0	17.95		ug/L		90	63 - 135	1	15
Methyl tert-butyl ether	20.0	16.85		ug/L		84	70 - 130	1	16
Tert-amyl methyl ether	20.0	17.80		ug/L		89	63 - 135	1	15
tert-Butyl alcohol (TBA)	200	166.5		ug/L		83	12 - 150	2	46
Toluene	20.0	20.96		ug/L		105	70 - 130	4	13
Xylenes, Total	40.0	41.15		ug/L		103	70 - 132	5	11

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

Lab Sample ID: 490-111235-5 MS
Matrix: Water
Analysis Batch: 369543

Client Sample ID: MW-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		20.0	18.31		ug/L		92	55 - 147
Diisopropyl ether	3.42		20.0	21.04		ug/L		88	56 - 142
Ethylbenzene	ND		20.0	18.51		ug/L		93	65 - 139
Ethyl tert-butyl ether	ND		20.0	16.08		ug/L		80	53 - 138
Methyl tert-butyl ether	84.4		20.0	98.99	4	ug/L		73	55 - 141
Tert-amyl methyl ether	ND		20.0	16.40		ug/L		79	47 - 148
tert-Butyl alcohol (TBA)	ND		200	136.2		ug/L		68	10 - 150
Toluene	ND		20.0	18.87		ug/L		94	64 - 136
Xylenes, Total	ND		40.0	37.12		ug/L		93	69 - 132

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*94*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-111235-5 MSD — **Client Sample ID: MW-8**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 369543

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		20.0	21.80		ug/L		109	55 - 147	17	22
Diisopropyl ether	3.42		20.0	24.81		ug/L		107	56 - 142	16	22
Ethylbenzene	ND		20.0	21.94		ug/L		110	65 - 139	17	18
Ethyl tert-butyl ether	ND		20.0	19.63		ug/L		98	53 - 138	20	22
Methyl tert-butyl ether	84.4		20.0	105.8	4	ug/L		107	55 - 141	7	24
Tert-amyl methyl ether	ND		20.0	19.28		ug/L		94	47 - 148	16	23
tert-Butyl alcohol (TBA)	ND		200	192.8		ug/L		96	10 - 150	34	47
Toluene	ND		20.0	22.12		ug/L		111	64 - 136	16	18
Xylenes, Total	ND		40.0	43.92		ug/L		110	69 - 132	17	17

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Lab Sample ID: MB 490-368464/10 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 368464

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			09/08/16 12:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*107*		*50 - 150*		*09/08/16 12:46*	*1*

Lab Sample ID: LCS 490-368464/6 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 368464

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]			1000	948.7		ug/L		95	66 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*126*		*50 - 150*

Lab Sample ID: LCSD 490-368464/7 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 368464

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]			1000	917.9		ug/L		92	66 - 140	3	42

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) (Continued)

Lab Sample ID: LCSD 490-368464/7
Matrix: Water
Analysis Batch: 368464

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*126*		*50 - 150*

Lab Sample ID: 490-111135-G-8 MS
Matrix: Water
Analysis Batch: 368464

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]	ND		1000	348.1		ug/L		35	33 - 175		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*105*		*50 - 150*

Lab Sample ID: 490-111135-H-8 MSD
Matrix: Water
Analysis Batch: 368464

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		1000	347.8		ug/L		35	33 - 175	0	42

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*103*		*50 - 150*

QC Association Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

GC/MS VOA

Analysis Batch: 369001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-111235-7	MW-10	Total/NA	Water	8260B	
MB 490-369001/7	Method Blank	Total/NA	Water	8260B	
LCS 490-369001/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-369001/4	Lab Control Sample Dup	Total/NA	Water	8260B	
490-111019-B-2 MS	Matrix Spike	Total/NA	Water	8260B	
490-111019-C-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 369059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-111235-1	A/S INF	Total/NA	Water	8260B	
490-111235-2	A/S EFF	Total/NA	Water	8260B	
490-111235-3	GAC-1 EFF	Total/NA	Water	8260B	
490-111235-4	GAC-2 FINAL	Total/NA	Water	8260B	
MB 490-369059/7	Method Blank	Total/NA	Water	8260B	
LCS 490-369059/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-369059/4	Lab Control Sample Dup	Total/NA	Water	8260B	
490-111235-4 MS	GAC-2 FINAL	Total/NA	Water	8260B	
490-111235-4 MSD	GAC-2 FINAL	Total/NA	Water	8260B	

Analysis Batch: 369543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-111235-5	MW-8	Total/NA	Water	8260B	
490-111235-6	MW-9	Total/NA	Water	8260B	
MB 490-369543/7	Method Blank	Total/NA	Water	8260B	
LCS 490-369543/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-369543/4	Lab Control Sample Dup	Total/NA	Water	8260B	
490-111235-5 MS	MW-8	Total/NA	Water	8260B	
490-111235-5 MSD	MW-8	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 368464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-111235-1	A/S INF	Total/NA	Water	8015C	
490-111235-2	A/S EFF	Total/NA	Water	8015C	
490-111235-3	GAC-1 EFF	Total/NA	Water	8015C	
490-111235-4	GAC-2 FINAL	Total/NA	Water	8015C	
490-111235-5	MW-8	Total/NA	Water	8015C	
490-111235-6	MW-9	Total/NA	Water	8015C	
490-111235-7	MW-10	Total/NA	Water	8015C	
MB 490-368464/10	Method Blank	Total/NA	Water	8015C	
LCS 490-368464/6	Lab Control Sample	Total/NA	Water	8015C	
LCSD 490-368464/7	Lab Control Sample Dup	Total/NA	Water	8015C	
490-111135-G-8 MS	Matrix Spike	Total/NA	Water	8015C	
490-111135-H-8 MSD	Matrix Spike Duplicate	Total/NA	Water	8015C	

Lab Chronicle

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: A/S INF — Lab Sample ID: 490-111235-1

Date Collected: 09/03/16 11:19 — **Matrix: Water**
Date Received: 09/07/16 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	369059	09/10/16 07:06	RP	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	368464	09/08/16 23:50	AK1	TAL NSH

Client Sample ID: A/S EFF — Lab Sample ID: 490-111235-2

Date Collected: 09/03/16 11:16 — **Matrix: Water**
Date Received: 09/07/16 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	369059	09/10/16 07:34	RP	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	368464	09/09/16 00:20	AK1	TAL NSH

Client Sample ID: GAC-1 EFF — Lab Sample ID: 490-111235-3

Date Collected: 09/03/16 11:15 — **Matrix: Water**
Date Received: 09/07/16 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	369059	09/10/16 08:02	RP	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	368464	09/09/16 00:51	AK1	TAL NSH

Client Sample ID: GAC-2 FINAL — Lab Sample ID: 490-111235-4

Date Collected: 09/03/16 11:09 — **Matrix: Water**
Date Received: 09/07/16 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	369059	09/10/16 06:37	RP	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	368464	09/09/16 01:22	AK1	TAL NSH

Client Sample ID: MW-8 — Lab Sample ID: 490-111235-5

Date Collected: 09/03/16 11:23 — **Matrix: Water**
Date Received: 09/07/16 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	369543	09/13/16 04:19	AK1	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	368464	09/09/16 01:52	AK1	TAL NSH

Client Sample ID: MW-9 — Lab Sample ID: 490-111235-6

Date Collected: 09/03/16 11:24 — **Matrix: Water**
Date Received: 09/07/16 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	369543	09/13/16 04:48	AK1	TAL NSH

Lab Chronicle

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-9

Lab Sample ID: 490-111235-6
Date Collected: 09/03/16 11:24
Matrix: Water
Date Received: 09/07/16 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015C		1	5 mL	5 mL	368464	09/09/16 02:23	AK1	TAL NSH

Client Sample ID: MW-10

Lab Sample ID: 490-111235-7
Date Collected: 09/03/16 11:25
Matrix: Water
Date Received: 09/07/16 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	369001	09/09/16 20:13	NC	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	368464	09/09/16 02:54	AK1	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
8015C	Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	SW846	TAL NSH

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

Laboratory: TestAmerica Nashville

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Maryland	State Program	3	316	03-31-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8015C		Water	Gasoline Range Organics [C6 - C10]
8260B		Water	Benzene
8260B		Water	Diisopropyl ether
8260B		Water	Ethyl tert-butyl ether
8260B		Water	Ethylbenzene
8260B		Water	Methyl tert-butyl ether
8260B		Water	Tert-amyl methyl ether
8260B		Water	tert-Butyl alcohol (TBA)
8260B		Water	Toluene
8260B		Water	Xylenes, Total

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Nashville, TN

COOLER RECEIPT FORM

490-111235 Chain of Custody

Cooler Received/Opened On 9-7-16 @ 0925

Time Samples Removed From Cooler _____ Time Samples Placed In Storage _____ (2 Hour Window)

1. Tracking # 3663 (last 4 digits, FedEx) Courier: _ FedEx_ ____ _

   IR Gun ID Raynger pH Strip Lot HC58117 Chlorine Strip Lot 71130

2. Temperature of rep. sample or temp blank when opened: 2.6 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES...NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

   If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) PN

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

   Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

   b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) PN

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

   b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) PN

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) PN

I certify that I attached a label with the unique LIMS number to each container (intial) PN

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 12/15/15

180325

BALTIMORE

Chain of Custody Record

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204-3719
phone 615.726.0177 fax 615.726.3404

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TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

NDP

Client Contact	Project Manager: John Canzeri	Site Contact: Mike Parsons	~~11/10/2015~~	COC No:
AECOM	Tel/Fax: 301-289-3805	Lab Contact: Salomon, Sherry	Carrier:	1 of 1 COCs
8000 Virginia Manor Rd., Suite 110	Analysis Turnaround Time			Sampler: M - Tatson
Beltsville, Maryland 20705	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
301-289-3900 Phone	TAT if different from Below: Standard			Walk-in Client:
301-289-3901 FAX	☐ 2 weeks			Lab Sampling:
Project Name: 32785.Hampstead.EL	☐ 1 week			
Site: 125 Hanover Pike, Hampstead, MD	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			AECOM's Job #60338398

Loc: 490
111235

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	BTEX + Oxy 8260	BTEX/MTBE	TPH-GRO 8015	Sample Specific Notes:
A/S INF	9/3/16	11:19	Grab	W	6	N	N	*		*	
A/S EFF		11:46	Grab	W	6	N	N	*		*	
GAC-1 EFF		11:15	Grab	W	6	N	N	*		*	
GAC-2 FINAL		11:09	Grab	W	6	N	N		*	*	
MW-8		11:23	Grab	W	6	N	N	*		*	
MW-9		11:24	Grab	W	6	N	N	*		*	
MW-10		11:25	Grab	W	6	N	N	*		*	
								2	2	2	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

7-Eleven/AECOM EDD

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by: Parsons	Company: AECOM	Date/Time: 9-5-2016 1023	Received by:	Company: TestAmerica	Date/Time: 9-5-2016 1025
Relinquished by:	Company: TestAmerica	Date/Time: 9/6/16 1730	Received by: 26	Company: TAN	Date/Time: 9-7-16 925
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.6, dated 09/02/2015

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9/14/2016

Login Sample Receipt Checklist

Client: AECOM

Job Number: 490-111235-1
SDG Number: 125 Hanover Pike, Hampstead, MD

Login Number: 111235
List Number: 1
Creator: Ngo, Phiet

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-111969-1
TestAmerica SDG: 125 Hanover Pike, Hampstead, MD
Client Project/Site: 32785.Hampstead.EL (MD)

For:
AECOM
8000 Virginia Manor Road
Suite 110
Beltsville, Maryland 20705

Attn: Mr. John Canzeri

Sherry M Salomon

Authorized for release by:
9/23/2016 3:08:46 PM

Sherry Salomon, Manager of Project Management Assistants
(615)301-5033
sherry.salomon@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-111969-1	A/S INF	Water	09/16/16 13:20	09/17/16 09:50
490-111969-2	A/S EFF	Water	09/16/16 13:10	09/17/16 09:50
490-111969-3	GAC-1 EFF	Water	09/16/16 13:00	09/17/16 09:50
490-111969-4	GAC-2 FINAL	Water	09/16/16 12:50	09/17/16 09:50
490-111969-5	MW-1	Water	09/16/16 15:15	09/17/16 09:50
490-111969-6	MW-2	Water	09/16/16 16:00	09/17/16 09:50
490-111969-7	MW-3	Water	09/16/16 15:45	09/17/16 09:50
490-111969-8	MW-4	Water	09/16/16 15:30	09/17/16 09:50
490-111969-9	MW-5	Water	09/16/16 15:00	09/17/16 09:50
490-111969-10	MW-6	Water	09/16/16 16:40	09/17/16 09:50
490-111969-11	MW-7	Water	09/16/16 17:00	09/17/16 09:50
490-111969-12	MW-8	Water	09/16/16 13:30	09/17/16 09:50
490-111969-13	MW-9	Water	09/16/16 13:40	09/17/16 09:50
490-111969-14	MW-10	Water	09/16/16 13:50	09/17/16 09:50

Job ID: 490-111969-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-111969-1

Comments
No additional comments.

Receipt
The samples were received on 9/17/2016 at 9:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.2º C.

Receipt Exceptions
One of 6 VOAs for the following sample was received broken: GAC-1 EFF (490-111969-3).

One of 6 VOAs for the following sample was received broken: MW-9 (490-111969-13).

GC/MS VOA
Method(s) 8015C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 490-371341.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
Method(s) 8021B: Insufficient sample volumes were available to perform matrix spikes/matrix spike duplicates (MS/MSD) associated with analytical batches 490-371342 and 490-372291.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: A/S INF

Date Collected: 09/16/16 13:20
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			09/21/16 10:18	1
Diisopropyl ether	ND		2.00		ug/L			09/21/16 10:18	1
Ethylbenzene	ND		1.00		ug/L			09/21/16 10:18	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/21/16 10:18	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/21/16 10:18	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/21/16 10:18	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/21/16 10:18	1
Toluene	ND		1.00		ug/L			09/21/16 10:18	1
Xylenes, Total	ND		3.00		ug/L			09/21/16 10:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*09/21/16 10:18*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*09/21/16 10:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*09/21/16 10:18*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*09/21/16 10:18*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			09/20/16 19:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*89*		*50 - 150*		*09/20/16 19:49*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: A/S EFF

Date Collected: 09/16/16 13:10
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			09/21/16 04:50	1
Diisopropyl ether	ND		2.00		ug/L			09/21/16 04:50	1
Ethylbenzene	ND		1.00		ug/L			09/21/16 04:50	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/21/16 04:50	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/21/16 04:50	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/21/16 04:50	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/21/16 04:50	1
Toluene	ND		1.00		ug/L			09/21/16 04:50	1
Xylenes, Total	ND		3.00		ug/L			09/21/16 04:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*09/21/16 04:50*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*09/21/16 04:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*09/21/16 04:50*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*09/21/16 04:50*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			09/20/16 20:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*88*		*50 - 150*		*09/20/16 20:22*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: GAC-1 EFF

Lab Sample ID: 490-111969-3

Date Collected: 09/16/16 13:00
Date Received: 09/17/16 09:50

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			09/21/16 04:21	1
Diisopropyl ether	ND		2.00		ug/L			09/21/16 04:21	1
Ethylbenzene	ND		1.00		ug/L			09/21/16 04:21	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/21/16 04:21	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/21/16 04:21	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/21/16 04:21	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/21/16 04:21	1
Toluene	ND		1.00		ug/L			09/21/16 04:21	1
Xylenes, Total	ND		3.00		ug/L			09/21/16 04:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*09/21/16 04:21*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*09/21/16 04:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*09/21/16 04:21*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*09/21/16 04:21*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			09/20/16 22:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*87*		*50 - 150*		*09/20/16 22:31*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: GAC-2 FINAL

Lab Sample ID: 490-111969-4

Date Collected: 09/16/16 12:50
Matrix: Water
Date Received: 09/17/16 09:50

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			09/20/16 21:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*99*		*50 - 150*		*09/20/16 21:03*	*1*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			09/20/16 21:03	1
Ethylbenzene	ND		1.00		ug/L			09/20/16 21:03	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/23/16 03:59	1
Toluene	ND		1.00		ug/L			09/20/16 21:03	1
Xylenes, Total	ND		3.00		ug/L			09/20/16 21:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*102*		*50 - 150*		*09/20/16 21:03*	*1*
a,a,a-Trifluorotoluene	*97*		*50 - 150*		*09/23/16 03:59*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-1

Date Collected: 09/16/16 15:15
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			09/21/16 05:20	1
Benzene	ND		1.00		ug/L			09/21/16 05:20	1
Bromochloromethane	ND		1.00		ug/L			09/21/16 05:20	1
Bromodichloromethane	ND		1.00		ug/L			09/21/16 05:20	1
Bromoform	ND		1.00		ug/L			09/21/16 05:20	1
Bromomethane	ND		1.00		ug/L			09/21/16 05:20	1
2-Butanone (MEK)	ND		50.0		ug/L			09/21/16 05:20	1
Carbon disulfide	ND		1.00		ug/L			09/21/16 05:20	1
Carbon tetrachloride	ND		1.00		ug/L			09/21/16 05:20	1
Chlorobenzene	ND		1.00		ug/L			09/21/16 05:20	1
Chlorodibromomethane	ND		1.00		ug/L			09/21/16 05:20	1
Chloroethane	ND		1.00		ug/L			09/21/16 05:20	1
Chloroform	ND		1.00		ug/L			09/21/16 05:20	1
Chloromethane	ND		1.00		ug/L			09/21/16 05:20	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			09/21/16 05:20	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			09/21/16 05:20	1
Cyclohexane	ND		5.00		ug/L			09/21/16 05:20	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			09/21/16 05:20	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			09/21/16 05:20	1
1,2-Dichlorobenzene	ND		1.00		ug/L			09/21/16 05:20	1
1,3-Dichlorobenzene	ND		1.00		ug/L			09/21/16 05:20	1
1,4-Dichlorobenzene	ND		1.00		ug/L			09/21/16 05:20	1
Dichlorodifluoromethane	ND		1.00		ug/L			09/21/16 05:20	1
1,1-Dichloroethane	ND		1.00		ug/L			09/21/16 05:20	1
1,2-Dichloroethane	ND		1.00		ug/L			09/21/16 05:20	1
1,1-Dichloroethene	ND		1.00		ug/L			09/21/16 05:20	1
1,2-Dichloropropane	ND		1.00		ug/L			09/21/16 05:20	1
Diisopropyl ether	ND		2.00		ug/L			09/21/16 05:20	1
Ethylbenzene	ND		1.00		ug/L			09/21/16 05:20	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/21/16 05:20	1
Freon 113	ND		1.00		ug/L			09/21/16 05:20	1
2-Hexanone	ND		10.0		ug/L			09/21/16 05:20	1
Isopropylbenzene	ND		1.00		ug/L			09/21/16 05:20	1
Methyl acetate	ND		10.0		ug/L			09/21/16 05:20	1
Methylcyclohexane	ND		5.00		ug/L			09/21/16 05:20	1
Methylene Chloride	ND		5.00		ug/L			09/21/16 05:20	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			09/21/16 05:20	1
Methyl tert-butyl ether	**5.09**		1.00		ug/L			09/21/16 05:20	1
Naphthalene	ND		5.00		ug/L			09/21/16 05:20	1
Styrene	ND		1.00		ug/L			09/21/16 05:20	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/21/16 05:20	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/21/16 05:20	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			09/21/16 05:20	1
Tetrachloroethene	ND		1.00		ug/L			09/21/16 05:20	1
Toluene	ND		1.00		ug/L			09/21/16 05:20	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			09/21/16 05:20	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			09/21/16 05:20	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			09/21/16 05:20	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			09/21/16 05:20	1

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-1

Date Collected: 09/16/16 15:15
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.00		ug/L			09/21/16 05:20	1
1,1,2-Trichloroethane	ND		1.00		ug/L			09/21/16 05:20	1
Trichloroethene	ND		1.00		ug/L			09/21/16 05:20	1
Trichlorofluoromethane	ND		1.00		ug/L			09/21/16 05:20	1
Vinyl chloride	ND		1.00		ug/L			09/21/16 05:20	1
m,p-Xylene	ND		2.00		ug/L			09/21/16 05:20	1
o-Xylene	ND		1.00		ug/L			09/21/16 05:20	1
Xylenes, Total	ND		3.00		ug/L			09/21/16 05:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*09/21/16 05:20*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*09/21/16 05:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*09/21/16 05:20*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*09/21/16 05:20*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			09/20/16 23:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*89*		*50 - 150*		*09/20/16 23:03*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-2

Date Collected: 09/16/16 16:00
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			09/21/16 05:50	1
Benzene	ND		1.00		ug/L			09/21/16 05:50	1
Bromochloromethane	ND		1.00		ug/L			09/21/16 05:50	1
Bromodichloromethane	ND		1.00		ug/L			09/21/16 05:50	1
Bromoform	ND		1.00		ug/L			09/21/16 05:50	1
Bromomethane	ND		1.00		ug/L			09/21/16 05:50	1
2-Butanone (MEK)	ND		50.0		ug/L			09/21/16 05:50	1
Carbon disulfide	ND		1.00		ug/L			09/21/16 05:50	1
Carbon tetrachloride	ND		1.00		ug/L			09/21/16 05:50	1
Chlorobenzene	ND		1.00		ug/L			09/21/16 05:50	1
Chlorodibromomethane	ND		1.00		ug/L			09/21/16 05:50	1
Chloroethane	ND		1.00		ug/L			09/21/16 05:50	1
Chloroform	ND		1.00		ug/L			09/21/16 05:50	1
Chloromethane	ND		1.00		ug/L			09/21/16 05:50	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			09/21/16 05:50	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			09/21/16 05:50	1
Cyclohexane	ND		5.00		ug/L			09/21/16 05:50	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			09/21/16 05:50	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			09/21/16 05:50	1
1,2-Dichlorobenzene	ND		1.00		ug/L			09/21/16 05:50	1
1,3-Dichlorobenzene	ND		1.00		ug/L			09/21/16 05:50	1
1,4-Dichlorobenzene	ND		1.00		ug/L			09/21/16 05:50	1
Dichlorodifluoromethane	ND		1.00		ug/L			09/21/16 05:50	1
1,1-Dichloroethane	ND		1.00		ug/L			09/21/16 05:50	1
1,2-Dichloroethane	ND		1.00		ug/L			09/21/16 05:50	1
1,1-Dichloroethene	ND		1.00		ug/L			09/21/16 05:50	1
1,2-Dichloropropane	ND		1.00		ug/L			09/21/16 05:50	1
Diisopropyl ether	ND		2.00		ug/L			09/21/16 05:50	1
Ethylbenzene	ND		1.00		ug/L			09/21/16 05:50	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/21/16 05:50	1
Freon 113	ND		1.00		ug/L			09/21/16 05:50	1
2-Hexanone	ND		10.0		ug/L			09/21/16 05:50	1
Isopropylbenzene	ND		1.00		ug/L			09/21/16 05:50	1
Methyl acetate	ND		10.0		ug/L			09/21/16 05:50	1
Methylcyclohexane	ND		5.00		ug/L			09/21/16 05:50	1
Methylene Chloride	ND		5.00		ug/L			09/21/16 05:50	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			09/21/16 05:50	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/21/16 05:50	1
Naphthalene	ND		5.00		ug/L			09/21/16 05:50	1
Styrene	ND		1.00		ug/L			09/21/16 05:50	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/21/16 05:50	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/21/16 05:50	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			09/21/16 05:50	1
Tetrachloroethene	ND		1.00		ug/L			09/21/16 05:50	1
Toluene	ND		1.00		ug/L			09/21/16 05:50	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			09/21/16 05:50	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			09/21/16 05:50	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			09/21/16 05:50	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			09/21/16 05:50	1

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-2

Date Collected: 09/16/16 16:00
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.00		ug/L			09/21/16 05:50	1
1,1,2-Trichloroethane	ND		1.00		ug/L			09/21/16 05:50	1
Trichloroethene	ND		1.00		ug/L			09/21/16 05:50	1
Trichlorofluoromethane	ND		1.00		ug/L			09/21/16 05:50	1
Vinyl chloride	ND		1.00		ug/L			09/21/16 05:50	1
m,p-Xylene	ND		2.00		ug/L			09/21/16 05:50	1
o-Xylene	ND		1.00		ug/L			09/21/16 05:50	1
Xylenes, Total	ND		3.00		ug/L			09/21/16 05:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*09/21/16 05:50*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*09/21/16 05:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*09/21/16 05:50*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*09/21/16 05:50*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			09/20/16 23:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*89*		*50 - 150*		*09/20/16 23:35*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-3

Date Collected: 09/16/16 15:45
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-7

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			09/21/16 06:20	1
Benzene	ND		1.00		ug/L			09/21/16 06:20	1
Bromochloromethane	ND		1.00		ug/L			09/21/16 06:20	1
Bromodichloromethane	ND		1.00		ug/L			09/21/16 06:20	1
Bromoform	ND		1.00		ug/L			09/21/16 06:20	1
Bromomethane	ND		1.00		ug/L			09/21/16 06:20	1
2-Butanone (MEK)	ND		50.0		ug/L			09/21/16 06:20	1
Carbon disulfide	ND		1.00		ug/L			09/21/16 06:20	1
Carbon tetrachloride	ND		1.00		ug/L			09/21/16 06:20	1
Chlorobenzene	ND		1.00		ug/L			09/21/16 06:20	1
Chlorodibromomethane	ND		1.00		ug/L			09/21/16 06:20	1
Chloroethane	ND		1.00		ug/L			09/21/16 06:20	1
Chloroform	ND		1.00		ug/L			09/21/16 06:20	1
Chloromethane	ND		1.00		ug/L			09/21/16 06:20	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			09/21/16 06:20	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			09/21/16 06:20	1
Cyclohexane	ND		5.00		ug/L			09/21/16 06:20	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			09/21/16 06:20	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			09/21/16 06:20	1
1,2-Dichlorobenzene	ND		1.00		ug/L			09/21/16 06:20	1
1,3-Dichlorobenzene	ND		1.00		ug/L			09/21/16 06:20	1
1,4-Dichlorobenzene	ND		1.00		ug/L			09/21/16 06:20	1
Dichlorodifluoromethane	ND		1.00		ug/L			09/21/16 06:20	1
1,1-Dichloroethane	ND		1.00		ug/L			09/21/16 06:20	1
1,2-Dichloroethane	ND		1.00		ug/L			09/21/16 06:20	1
1,1-Dichloroethene	ND		1.00		ug/L			09/21/16 06:20	1
1,2-Dichloropropane	ND		1.00		ug/L			09/21/16 06:20	1
Diisopropyl ether	ND		2.00		ug/L			09/21/16 06:20	1
Ethylbenzene	ND		1.00		ug/L			09/21/16 06:20	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/21/16 06:20	1
Freon 113	ND		1.00		ug/L			09/21/16 06:20	1
2-Hexanone	ND		10.0		ug/L			09/21/16 06:20	1
Isopropylbenzene	ND		1.00		ug/L			09/21/16 06:20	1
Methyl acetate	ND		10.0		ug/L			09/21/16 06:20	1
Methylcyclohexane	ND		5.00		ug/L			09/21/16 06:20	1
Methylene Chloride	ND		5.00		ug/L			09/21/16 06:20	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			09/21/16 06:20	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/21/16 06:20	1
Naphthalene	ND		5.00		ug/L			09/21/16 06:20	1
Styrene	ND		1.00		ug/L			09/21/16 06:20	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/21/16 06:20	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/21/16 06:20	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			09/21/16 06:20	1
Tetrachloroethene	ND		1.00		ug/L			09/21/16 06:20	1
Toluene	ND		1.00		ug/L			09/21/16 06:20	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			09/21/16 06:20	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			09/21/16 06:20	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			09/21/16 06:20	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			09/21/16 06:20	1

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-3

Date Collected: 09/16/16 15:45
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-7

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.00		ug/L			09/21/16 06:20	1
1,1,2-Trichloroethane	ND		1.00		ug/L			09/21/16 06:20	1
Trichloroethene	ND		1.00		ug/L			09/21/16 06:20	1
Trichlorofluoromethane	ND		1.00		ug/L			09/21/16 06:20	1
Vinyl chloride	ND		1.00		ug/L			09/21/16 06:20	1
m,p-Xylene	ND		2.00		ug/L			09/21/16 06:20	1
o-Xylene	ND		1.00		ug/L			09/21/16 06:20	1
Xylenes, Total	ND		3.00		ug/L			09/21/16 06:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*09/21/16 06:20*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*09/21/16 06:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*09/21/16 06:20*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*09/21/16 06:20*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			09/21/16 00:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*89*		*50 - 150*		*09/21/16 00:07*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-4

Date Collected: 09/16/16 15:30
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-8

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			09/21/16 06:50	1
Benzene	ND		1.00		ug/L			09/21/16 06:50	1
Bromochloromethane	ND		1.00		ug/L			09/21/16 06:50	1
Bromodichloromethane	ND		1.00		ug/L			09/21/16 06:50	1
Bromoform	ND		1.00		ug/L			09/21/16 06:50	1
Bromomethane	ND		1.00		ug/L			09/21/16 06:50	1
2-Butanone (MEK)	ND		50.0		ug/L			09/21/16 06:50	1
Carbon disulfide	ND		1.00		ug/L			09/21/16 06:50	1
Carbon tetrachloride	ND		1.00		ug/L			09/21/16 06:50	1
Chlorobenzene	ND		1.00		ug/L			09/21/16 06:50	1
Chlorodibromomethane	ND		1.00		ug/L			09/21/16 06:50	1
Chloroethane	ND		1.00		ug/L			09/21/16 06:50	1
Chloroform	ND		1.00		ug/L			09/21/16 06:50	1
Chloromethane	ND		1.00		ug/L			09/21/16 06:50	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			09/21/16 06:50	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			09/21/16 06:50	1
Cyclohexane	ND		5.00		ug/L			09/21/16 06:50	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			09/21/16 06:50	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			09/21/16 06:50	1
1,2-Dichlorobenzene	ND		1.00		ug/L			09/21/16 06:50	1
1,3-Dichlorobenzene	ND		1.00		ug/L			09/21/16 06:50	1
1,4-Dichlorobenzene	ND		1.00		ug/L			09/21/16 06:50	1
Dichlorodifluoromethane	ND		1.00		ug/L			09/21/16 06:50	1
1,1-Dichloroethane	ND		1.00		ug/L			09/21/16 06:50	1
1,2-Dichloroethane	ND		1.00		ug/L			09/21/16 06:50	1
1,1-Dichloroethene	ND		1.00		ug/L			09/21/16 06:50	1
1,2-Dichloropropane	ND		1.00		ug/L			09/21/16 06:50	1
Diisopropyl ether	ND		2.00		ug/L			09/21/16 06:50	1
Ethylbenzene	ND		1.00		ug/L			09/21/16 06:50	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/21/16 06:50	1
Freon 113	ND		1.00		ug/L			09/21/16 06:50	1
2-Hexanone	ND		10.0		ug/L			09/21/16 06:50	1
Isopropylbenzene	ND		1.00		ug/L			09/21/16 06:50	1
Methyl acetate	ND		10.0		ug/L			09/21/16 06:50	1
Methylcyclohexane	ND		5.00		ug/L			09/21/16 06:50	1
Methylene Chloride	ND		5.00		ug/L			09/21/16 06:50	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			09/21/16 06:50	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/21/16 06:50	1
Naphthalene	ND		5.00		ug/L			09/21/16 06:50	1
Styrene	ND		1.00		ug/L			09/21/16 06:50	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/21/16 06:50	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/21/16 06:50	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			09/21/16 06:50	1
Tetrachloroethene	ND		1.00		ug/L			09/21/16 06:50	1
Toluene	ND		1.00		ug/L			09/21/16 06:50	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			09/21/16 06:50	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			09/21/16 06:50	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			09/21/16 06:50	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			09/21/16 06:50	1

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-4

Date Collected: 09/16/16 15:30
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-8

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.00		ug/L			09/21/16 06:50	1
1,1,2-Trichloroethane	ND		1.00		ug/L			09/21/16 06:50	1
Trichloroethene	ND		1.00		ug/L			09/21/16 06:50	1
Trichlorofluoromethane	ND		1.00		ug/L			09/21/16 06:50	1
Vinyl chloride	ND		1.00		ug/L			09/21/16 06:50	1
m,p-Xylene	ND		2.00		ug/L			09/21/16 06:50	1
o-Xylene	ND		1.00		ug/L			09/21/16 06:50	1
Xylenes, Total	ND		3.00		ug/L			09/21/16 06:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*09/21/16 06:50*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*09/21/16 06:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*09/21/16 06:50*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*09/21/16 06:50*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			09/21/16 00:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*88*		*50 - 150*		*09/21/16 00:39*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-5

Date Collected: 09/16/16 15:00
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-9

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			09/21/16 07:49	1
Benzene	ND		1.00		ug/L			09/21/16 07:49	1
Bromochloromethane	ND		1.00		ug/L			09/21/16 07:49	1
Bromodichloromethane	ND		1.00		ug/L			09/21/16 07:49	1
Bromoform	ND		1.00		ug/L			09/21/16 07:49	1
Bromomethane	ND		1.00		ug/L			09/21/16 07:49	1
2-Butanone (MEK)	ND		50.0		ug/L			09/21/16 07:49	1
Carbon disulfide	ND		1.00		ug/L			09/21/16 07:49	1
Carbon tetrachloride	ND		1.00		ug/L			09/21/16 07:49	1
Chlorobenzene	ND		1.00		ug/L			09/21/16 07:49	1
Chlorodibromomethane	ND		1.00		ug/L			09/21/16 07:49	1
Chloroethane	ND		1.00		ug/L			09/21/16 07:49	1
Chloroform	ND		1.00		ug/L			09/21/16 07:49	1
Chloromethane	ND		1.00		ug/L			09/21/16 07:49	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			09/21/16 07:49	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			09/21/16 07:49	1
Cyclohexane	ND		5.00		ug/L			09/21/16 07:49	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			09/21/16 07:49	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			09/21/16 07:49	1
1,2-Dichlorobenzene	ND		1.00		ug/L			09/21/16 07:49	1
1,3-Dichlorobenzene	ND		1.00		ug/L			09/21/16 07:49	1
1,4-Dichlorobenzene	ND		1.00		ug/L			09/21/16 07:49	1
Dichlorodifluoromethane	ND		1.00		ug/L			09/21/16 07:49	1
1,1-Dichloroethane	ND		1.00		ug/L			09/21/16 07:49	1
1,2-Dichloroethane	ND		1.00		ug/L			09/21/16 07:49	1
1,1-Dichloroethene	ND		1.00		ug/L			09/21/16 07:49	1
1,2-Dichloropropane	ND		1.00		ug/L			09/21/16 07:49	1
Diisopropyl ether	ND		2.00		ug/L			09/21/16 07:49	1
Ethylbenzene	ND		1.00		ug/L			09/21/16 07:49	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/21/16 07:49	1
Freon 113	ND		1.00		ug/L			09/21/16 07:49	1
2-Hexanone	ND		10.0		ug/L			09/21/16 07:49	1
Isopropylbenzene	ND		1.00		ug/L			09/21/16 07:49	1
Methyl acetate	ND		10.0		ug/L			09/21/16 07:49	1
Methylcyclohexane	ND		5.00		ug/L			09/21/16 07:49	1
Methylene Chloride	ND		5.00		ug/L			09/21/16 07:49	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			09/21/16 07:49	1
Methyl tert-butyl ether	**2.19**		1.00		ug/L			09/21/16 07:49	1
Naphthalene	ND		5.00		ug/L			09/21/16 07:49	1
Styrene	ND		1.00		ug/L			09/21/16 07:49	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/21/16 07:49	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/21/16 07:49	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			09/21/16 07:49	1
Tetrachloroethene	ND		1.00		ug/L			09/21/16 07:49	1
Toluene	ND		1.00		ug/L			09/21/16 07:49	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			09/21/16 07:49	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			09/21/16 07:49	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			09/21/16 07:49	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			09/21/16 07:49	1

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-5

Date Collected: 09/16/16 15:00
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-9

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.00		ug/L			09/21/16 07:49	1
1,1,2-Trichloroethane	ND		1.00		ug/L			09/21/16 07:49	1
Trichloroethene	ND		1.00		ug/L			09/21/16 07:49	1
Trichlorofluoromethane	ND		1.00		ug/L			09/21/16 07:49	1
Vinyl chloride	ND		1.00		ug/L			09/21/16 07:49	1
m,p-Xylene	ND		2.00		ug/L			09/21/16 07:49	1
o-Xylene	ND		1.00		ug/L			09/21/16 07:49	1
Xylenes, Total	ND		3.00		ug/L			09/21/16 07:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*09/21/16 07:49*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*09/21/16 07:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*09/21/16 07:49*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*09/21/16 07:49*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			09/21/16 01:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*89*		*50 - 150*		*09/21/16 01:10*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-6

Date Collected: 09/16/16 16:40
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-10

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			09/21/16 07:19	1
Benzene	ND		1.00		ug/L			09/21/16 07:19	1
Bromochloromethane	ND		1.00		ug/L			09/21/16 07:19	1
Bromodichloromethane	ND		1.00		ug/L			09/21/16 07:19	1
Bromoform	ND		1.00		ug/L			09/21/16 07:19	1
Bromomethane	ND		1.00		ug/L			09/21/16 07:19	1
2-Butanone (MEK)	ND		50.0		ug/L			09/21/16 07:19	1
Carbon disulfide	ND		1.00		ug/L			09/21/16 07:19	1
Carbon tetrachloride	ND		1.00		ug/L			09/21/16 07:19	1
Chlorobenzene	ND		1.00		ug/L			09/21/16 07:19	1
Chlorodibromomethane	ND		1.00		ug/L			09/21/16 07:19	1
Chloroethane	ND		1.00		ug/L			09/21/16 07:19	1
Chloroform	ND		1.00		ug/L			09/21/16 07:19	1
Chloromethane	ND		1.00		ug/L			09/21/16 07:19	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			09/21/16 07:19	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			09/21/16 07:19	1
Cyclohexane	ND		5.00		ug/L			09/21/16 07:19	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			09/21/16 07:19	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			09/21/16 07:19	1
1,2-Dichlorobenzene	ND		1.00		ug/L			09/21/16 07:19	1
1,3-Dichlorobenzene	ND		1.00		ug/L			09/21/16 07:19	1
1,4-Dichlorobenzene	ND		1.00		ug/L			09/21/16 07:19	1
Dichlorodifluoromethane	ND		1.00		ug/L			09/21/16 07:19	1
1,1-Dichloroethane	ND		1.00		ug/L			09/21/16 07:19	1
1,2-Dichloroethane	ND		1.00		ug/L			09/21/16 07:19	1
1,1-Dichloroethene	ND		1.00		ug/L			09/21/16 07:19	1
1,2-Dichloropropane	ND		1.00		ug/L			09/21/16 07:19	1
Diisopropyl ether	ND		2.00		ug/L			09/21/16 07:19	1
Ethylbenzene	ND		1.00		ug/L			09/21/16 07:19	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/21/16 07:19	1
Freon 113	ND		1.00		ug/L			09/21/16 07:19	1
2-Hexanone	ND		10.0		ug/L			09/21/16 07:19	1
Isopropylbenzene	ND		1.00		ug/L			09/21/16 07:19	1
Methyl acetate	ND		10.0		ug/L			09/21/16 07:19	1
Methylcyclohexane	ND		5.00		ug/L			09/21/16 07:19	1
Methylene Chloride	ND		5.00		ug/L			09/21/16 07:19	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			09/21/16 07:19	1
Methyl tert-butyl ether	**23.8**		1.00		ug/L			09/21/16 07:19	1
Naphthalene	ND		5.00		ug/L			09/21/16 07:19	1
Styrene	ND		1.00		ug/L			09/21/16 07:19	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/21/16 07:19	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/21/16 07:19	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			09/21/16 07:19	1
Tetrachloroethene	ND		1.00		ug/L			09/21/16 07:19	1
Toluene	ND		1.00		ug/L			09/21/16 07:19	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			09/21/16 07:19	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			09/21/16 07:19	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			09/21/16 07:19	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			09/21/16 07:19	1

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-6

Date Collected: 09/16/16 16:40
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-10

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.00		ug/L			09/21/16 07:19	1
1,1,2-Trichloroethane	ND		1.00		ug/L			09/21/16 07:19	1
Trichloroethene	ND		1.00		ug/L			09/21/16 07:19	1
Trichlorofluoromethane	ND		1.00		ug/L			09/21/16 07:19	1
Vinyl chloride	ND		1.00		ug/L			09/21/16 07:19	1
m,p-Xylene	ND		2.00		ug/L			09/21/16 07:19	1
o-Xylene	ND		1.00		ug/L			09/21/16 07:19	1
Xylenes, Total	ND		3.00		ug/L			09/21/16 07:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*09/21/16 07:19*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*09/21/16 07:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*09/21/16 07:19*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*09/21/16 07:19*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			09/21/16 01:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*87*		*50 - 150*		*09/21/16 01:42*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-7

Date Collected: 09/16/16 17:00
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-11

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			09/21/16 08:19	1
Benzene	ND		1.00		ug/L			09/21/16 08:19	1
Bromochloromethane	ND		1.00		ug/L			09/21/16 08:19	1
Bromodichloromethane	ND		1.00		ug/L			09/21/16 08:19	1
Bromoform	ND		1.00		ug/L			09/21/16 08:19	1
Bromomethane	ND		1.00		ug/L			09/21/16 08:19	1
2-Butanone (MEK)	ND		50.0		ug/L			09/21/16 08:19	1
Carbon disulfide	ND		1.00		ug/L			09/21/16 08:19	1
Carbon tetrachloride	ND		1.00		ug/L			09/21/16 08:19	1
Chlorobenzene	ND		1.00		ug/L			09/21/16 08:19	1
Chlorodibromomethane	ND		1.00		ug/L			09/21/16 08:19	1
Chloroethane	ND		1.00		ug/L			09/21/16 08:19	1
Chloroform	ND		1.00		ug/L			09/21/16 08:19	1
Chloromethane	ND		1.00		ug/L			09/21/16 08:19	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			09/21/16 08:19	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			09/21/16 08:19	1
Cyclohexane	ND		5.00		ug/L			09/21/16 08:19	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			09/21/16 08:19	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			09/21/16 08:19	1
1,2-Dichlorobenzene	ND		1.00		ug/L			09/21/16 08:19	1
1,3-Dichlorobenzene	ND		1.00		ug/L			09/21/16 08:19	1
1,4-Dichlorobenzene	ND		1.00		ug/L			09/21/16 08:19	1
Dichlorodifluoromethane	ND		1.00		ug/L			09/21/16 08:19	1
1,1-Dichloroethane	ND		1.00		ug/L			09/21/16 08:19	1
1,2-Dichloroethane	ND		1.00		ug/L			09/21/16 08:19	1
1,1-Dichloroethene	ND		1.00		ug/L			09/21/16 08:19	1
1,2-Dichloropropane	ND		1.00		ug/L			09/21/16 08:19	1
Diisopropyl ether	ND		2.00		ug/L			09/21/16 08:19	1
Ethylbenzene	ND		1.00		ug/L			09/21/16 08:19	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/21/16 08:19	1
Freon 113	ND		1.00		ug/L			09/21/16 08:19	1
2-Hexanone	ND		10.0		ug/L			09/21/16 08:19	1
Isopropylbenzene	ND		1.00		ug/L			09/21/16 08:19	1
Methyl acetate	ND		10.0		ug/L			09/21/16 08:19	1
Methylcyclohexane	ND		5.00		ug/L			09/21/16 08:19	1
Methylene Chloride	ND		5.00		ug/L			09/21/16 08:19	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			09/21/16 08:19	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/21/16 08:19	1
Naphthalene	ND		5.00		ug/L			09/21/16 08:19	1
Styrene	ND		1.00		ug/L			09/21/16 08:19	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/21/16 08:19	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/21/16 08:19	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			09/21/16 08:19	1
Tetrachloroethene	ND		1.00		ug/L			09/21/16 08:19	1
Toluene	ND		1.00		ug/L			09/21/16 08:19	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			09/21/16 08:19	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			09/21/16 08:19	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			09/21/16 08:19	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			09/21/16 08:19	1

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-7

Date Collected: 09/16/16 17:00
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-11

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.00		ug/L			09/21/16 08:19	1
1,1,2-Trichloroethane	ND		1.00		ug/L			09/21/16 08:19	1
Trichloroethene	ND		1.00		ug/L			09/21/16 08:19	1
Trichlorofluoromethane	ND		1.00		ug/L			09/21/16 08:19	1
Vinyl chloride	ND		1.00		ug/L			09/21/16 08:19	1
m,p-Xylene	ND		2.00		ug/L			09/21/16 08:19	1
o-Xylene	ND		1.00		ug/L			09/21/16 08:19	1
Xylenes, Total	ND		3.00		ug/L			09/21/16 08:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*09/21/16 08:19*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*09/21/16 08:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*09/21/16 08:19*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*09/21/16 08:19*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			09/21/16 02:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*87*		*50 - 150*		*09/21/16 02:14*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-8

Date Collected: 09/16/16 13:30
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-12

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			09/21/16 09:19	1
Benzene	ND		1.00		ug/L			09/21/16 09:19	1
Bromochloromethane	ND		1.00		ug/L			09/21/16 09:19	1
Bromodichloromethane	ND		1.00		ug/L			09/21/16 09:19	1
Bromoform	ND		1.00		ug/L			09/21/16 09:19	1
Bromomethane	ND		1.00		ug/L			09/21/16 09:19	1
2-Butanone (MEK)	ND		50.0		ug/L			09/21/16 09:19	1
Carbon disulfide	ND		1.00		ug/L			09/21/16 09:19	1
Carbon tetrachloride	ND		1.00		ug/L			09/21/16 09:19	1
Chlorobenzene	ND		1.00		ug/L			09/21/16 09:19	1
Chlorodibromomethane	ND		1.00		ug/L			09/21/16 09:19	1
Chloroethane	ND		1.00		ug/L			09/21/16 09:19	1
Chloroform	ND		1.00		ug/L			09/21/16 09:19	1
Chloromethane	ND		1.00		ug/L			09/21/16 09:19	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			09/21/16 09:19	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			09/21/16 09:19	1
Cyclohexane	ND		5.00		ug/L			09/21/16 09:19	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			09/21/16 09:19	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			09/21/16 09:19	1
1,2-Dichlorobenzene	ND		1.00		ug/L			09/21/16 09:19	1
1,3-Dichlorobenzene	ND		1.00		ug/L			09/21/16 09:19	1
1,4-Dichlorobenzene	ND		1.00		ug/L			09/21/16 09:19	1
Dichlorodifluoromethane	ND		1.00		ug/L			09/21/16 09:19	1
1,1-Dichloroethane	ND		1.00		ug/L			09/21/16 09:19	1
1,2-Dichloroethane	ND		1.00		ug/L			09/21/16 09:19	1
1,1-Dichloroethene	ND		1.00		ug/L			09/21/16 09:19	1
1,2-Dichloropropane	ND		1.00		ug/L			09/21/16 09:19	1
Diisopropyl ether	ND		2.00		ug/L			09/21/16 09:19	1
Ethylbenzene	ND		1.00		ug/L			09/21/16 09:19	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/21/16 09:19	1
Freon 113	ND		1.00		ug/L			09/21/16 09:19	1
2-Hexanone	ND		10.0		ug/L			09/21/16 09:19	1
Isopropylbenzene	ND		1.00		ug/L			09/21/16 09:19	1
Methyl acetate	ND		10.0		ug/L			09/21/16 09:19	1
Methylcyclohexane	ND		5.00		ug/L			09/21/16 09:19	1
Methylene Chloride	ND		5.00		ug/L			09/21/16 09:19	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			09/21/16 09:19	1
Methyl tert-butyl ether	**3.25**		1.00		ug/L			09/21/16 09:19	1
Naphthalene	ND		5.00		ug/L			09/21/16 09:19	1
Styrene	ND		1.00		ug/L			09/21/16 09:19	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/21/16 09:19	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/21/16 09:19	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			09/21/16 09:19	1
Tetrachloroethene	ND		1.00		ug/L			09/21/16 09:19	1
Toluene	ND		1.00		ug/L			09/21/16 09:19	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			09/21/16 09:19	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			09/21/16 09:19	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			09/21/16 09:19	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			09/21/16 09:19	1

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-8

Date Collected: 09/16/16 13:30
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-12

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.00		ug/L			09/21/16 09:19	1
1,1,2-Trichloroethane	ND		1.00		ug/L			09/21/16 09:19	1
Trichloroethene	ND		1.00		ug/L			09/21/16 09:19	1
Trichlorofluoromethane	ND		1.00		ug/L			09/21/16 09:19	1
Vinyl chloride	ND		1.00		ug/L			09/21/16 09:19	1
m,p-Xylene	ND		2.00		ug/L			09/21/16 09:19	1
o-Xylene	ND		1.00		ug/L			09/21/16 09:19	1
Xylenes, Total	ND		3.00		ug/L			09/21/16 09:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*09/21/16 09:19*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*09/21/16 09:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*09/21/16 09:19*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*09/21/16 09:19*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			09/21/16 02:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*89*		*50 - 150*		*09/21/16 02:45*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-9

Date Collected: 09/16/16 13:40
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-13

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			09/21/16 09:48	1
Benzene	ND		1.00		ug/L			09/21/16 09:48	1
Bromochloromethane	ND		1.00		ug/L			09/21/16 09:48	1
Bromodichloromethane	ND		1.00		ug/L			09/21/16 09:48	1
Bromoform	ND		1.00		ug/L			09/21/16 09:48	1
Bromomethane	ND		1.00		ug/L			09/21/16 09:48	1
2-Butanone (MEK)	ND		50.0		ug/L			09/21/16 09:48	1
Carbon disulfide	ND		1.00		ug/L			09/21/16 09:48	1
Carbon tetrachloride	ND		1.00		ug/L			09/21/16 09:48	1
Chlorobenzene	ND		1.00		ug/L			09/21/16 09:48	1
Chlorodibromomethane	ND		1.00		ug/L			09/21/16 09:48	1
Chloroethane	ND		1.00		ug/L			09/21/16 09:48	1
Chloroform	ND		1.00		ug/L			09/21/16 09:48	1
Chloromethane	ND		1.00		ug/L			09/21/16 09:48	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			09/21/16 09:48	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			09/21/16 09:48	1
Cyclohexane	ND		5.00		ug/L			09/21/16 09:48	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			09/21/16 09:48	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			09/21/16 09:48	1
1,2-Dichlorobenzene	ND		1.00		ug/L			09/21/16 09:48	1
1,3-Dichlorobenzene	ND		1.00		ug/L			09/21/16 09:48	1
1,4-Dichlorobenzene	ND		1.00		ug/L			09/21/16 09:48	1
Dichlorodifluoromethane	ND		1.00		ug/L			09/21/16 09:48	1
1,1-Dichloroethane	ND		1.00		ug/L			09/21/16 09:48	1
1,2-Dichloroethane	ND		1.00		ug/L			09/21/16 09:48	1
1,1-Dichloroethene	ND		1.00		ug/L			09/21/16 09:48	1
1,2-Dichloropropane	ND		1.00		ug/L			09/21/16 09:48	1
Diisopropyl ether	ND		2.00		ug/L			09/21/16 09:48	1
Ethylbenzene	ND		1.00		ug/L			09/21/16 09:48	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/21/16 09:48	1
Freon 113	ND		1.00		ug/L			09/21/16 09:48	1
2-Hexanone	ND		10.0		ug/L			09/21/16 09:48	1
Isopropylbenzene	ND		1.00		ug/L			09/21/16 09:48	1
Methyl acetate	ND		10.0		ug/L			09/21/16 09:48	1
Methylcyclohexane	ND		5.00		ug/L			09/21/16 09:48	1
Methylene Chloride	ND		5.00		ug/L			09/21/16 09:48	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			09/21/16 09:48	1
Methyl tert-butyl ether	**17.1**		1.00		ug/L			09/21/16 09:48	1
Naphthalene	ND		5.00		ug/L			09/21/16 09:48	1
Styrene	ND		1.00		ug/L			09/21/16 09:48	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/21/16 09:48	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/21/16 09:48	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			09/21/16 09:48	1
Tetrachloroethene	ND		1.00		ug/L			09/21/16 09:48	1
Toluene	ND		1.00		ug/L			09/21/16 09:48	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			09/21/16 09:48	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			09/21/16 09:48	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			09/21/16 09:48	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			09/21/16 09:48	1

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-9

Date Collected: 09/16/16 13:40
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-13

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.00		ug/L			09/21/16 09:48	1
1,1,2-Trichloroethane	ND		1.00		ug/L			09/21/16 09:48	1
Trichloroethene	ND		1.00		ug/L			09/21/16 09:48	1
Trichlorofluoromethane	ND		1.00		ug/L			09/21/16 09:48	1
Vinyl chloride	ND		1.00		ug/L			09/21/16 09:48	1
m,p-Xylene	ND		2.00		ug/L			09/21/16 09:48	1
o-Xylene	ND		1.00		ug/L			09/21/16 09:48	1
Xylenes, Total	ND		3.00		ug/L			09/21/16 09:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*09/21/16 09:48*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*09/21/16 09:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*09/21/16 09:48*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*09/21/16 09:48*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			09/21/16 03:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*87*		*50 - 150*		*09/21/16 03:17*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-10

Date Collected: 09/16/16 13:50
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-14

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			09/21/16 08:49	1
Benzene	ND		1.00		ug/L			09/21/16 08:49	1
Bromochloromethane	ND		1.00		ug/L			09/21/16 08:49	1
Bromodichloromethane	ND		1.00		ug/L			09/21/16 08:49	1
Bromoform	ND		1.00		ug/L			09/21/16 08:49	1
Bromomethane	ND		1.00		ug/L			09/21/16 08:49	1
2-Butanone (MEK)	ND		50.0		ug/L			09/21/16 08:49	1
Carbon disulfide	ND		1.00		ug/L			09/21/16 08:49	1
Carbon tetrachloride	ND		1.00		ug/L			09/21/16 08:49	1
Chlorobenzene	ND		1.00		ug/L			09/21/16 08:49	1
Chlorodibromomethane	ND		1.00		ug/L			09/21/16 08:49	1
Chloroethane	ND		1.00		ug/L			09/21/16 08:49	1
Chloroform	ND		1.00		ug/L			09/21/16 08:49	1
Chloromethane	ND		1.00		ug/L			09/21/16 08:49	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			09/21/16 08:49	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			09/21/16 08:49	1
Cyclohexane	ND		5.00		ug/L			09/21/16 08:49	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			09/21/16 08:49	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			09/21/16 08:49	1
1,2-Dichlorobenzene	ND		1.00		ug/L			09/21/16 08:49	1
1,3-Dichlorobenzene	ND		1.00		ug/L			09/21/16 08:49	1
1,4-Dichlorobenzene	ND		1.00		ug/L			09/21/16 08:49	1
Dichlorodifluoromethane	ND		1.00		ug/L			09/21/16 08:49	1
1,1-Dichloroethane	ND		1.00		ug/L			09/21/16 08:49	1
1,2-Dichloroethane	ND		1.00		ug/L			09/21/16 08:49	1
1,1-Dichloroethene	ND		1.00		ug/L			09/21/16 08:49	1
1,2-Dichloropropane	ND		1.00		ug/L			09/21/16 08:49	1
Diisopropyl ether	ND		2.00		ug/L			09/21/16 08:49	1
Ethylbenzene	ND		1.00		ug/L			09/21/16 08:49	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/21/16 08:49	1
Freon 113	ND		1.00		ug/L			09/21/16 08:49	1
2-Hexanone	ND		10.0		ug/L			09/21/16 08:49	1
Isopropylbenzene	ND		1.00		ug/L			09/21/16 08:49	1
Methyl acetate	ND		10.0		ug/L			09/21/16 08:49	1
Methylcyclohexane	ND		5.00		ug/L			09/21/16 08:49	1
Methylene Chloride	ND		5.00		ug/L			09/21/16 08:49	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			09/21/16 08:49	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/21/16 08:49	1
Naphthalene	ND		5.00		ug/L			09/21/16 08:49	1
Styrene	ND		1.00		ug/L			09/21/16 08:49	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/21/16 08:49	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/21/16 08:49	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			09/21/16 08:49	1
Tetrachloroethene	ND		1.00		ug/L			09/21/16 08:49	1
Toluene	ND		1.00		ug/L			09/21/16 08:49	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			09/21/16 08:49	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			09/21/16 08:49	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			09/21/16 08:49	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			09/21/16 08:49	1

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-10

Date Collected: 09/16/16 13:50
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-14

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.00		ug/L			09/21/16 08:49	1
1,1,2-Trichloroethane	ND		1.00		ug/L			09/21/16 08:49	1
Trichloroethene	ND		1.00		ug/L			09/21/16 08:49	1
Trichlorofluoromethane	ND		1.00		ug/L			09/21/16 08:49	1
Vinyl chloride	ND		1.00		ug/L			09/21/16 08:49	1
m,p-Xylene	ND		2.00		ug/L			09/21/16 08:49	1
o-Xylene	ND		1.00		ug/L			09/21/16 08:49	1
Xylenes, Total	ND		3.00		ug/L			09/21/16 08:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*09/21/16 08:49*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*09/21/16 08:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*09/21/16 08:49*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*09/21/16 08:49*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			09/21/16 03:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*88*		*50 - 150*		*09/21/16 03:49*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-371574/7
Matrix: Water
Analysis Batch: 371574

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			09/21/16 03:21	1
Benzene	ND		1.00		ug/L			09/21/16 03:21	1
Bromochloromethane	ND		1.00		ug/L			09/21/16 03:21	1
Bromodichloromethane	ND		1.00		ug/L			09/21/16 03:21	1
Bromoform	ND		1.00		ug/L			09/21/16 03:21	1
Bromomethane	ND		1.00		ug/L			09/21/16 03:21	1
2-Butanone (MEK)	ND		50.0		ug/L			09/21/16 03:21	1
Carbon disulfide	ND		1.00		ug/L			09/21/16 03:21	1
Carbon tetrachloride	ND		1.00		ug/L			09/21/16 03:21	1
Chlorobenzene	ND		1.00		ug/L			09/21/16 03:21	1
Chlorodibromomethane	ND		1.00		ug/L			09/21/16 03:21	1
Chloroethane	ND		1.00		ug/L			09/21/16 03:21	1
Chloroform	ND		1.00		ug/L			09/21/16 03:21	1
Chloromethane	ND		1.00		ug/L			09/21/16 03:21	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			09/21/16 03:21	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			09/21/16 03:21	1
Cyclohexane	ND		5.00		ug/L			09/21/16 03:21	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			09/21/16 03:21	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			09/21/16 03:21	1
1,2-Dichlorobenzene	ND		1.00		ug/L			09/21/16 03:21	1
1,3-Dichlorobenzene	ND		1.00		ug/L			09/21/16 03:21	1
1,4-Dichlorobenzene	ND		1.00		ug/L			09/21/16 03:21	1
Dichlorodifluoromethane	ND		1.00		ug/L			09/21/16 03:21	1
1,1-Dichloroethane	ND		1.00		ug/L			09/21/16 03:21	1
1,2-Dichloroethane	ND		1.00		ug/L			09/21/16 03:21	1
1,1-Dichloroethene	ND		1.00		ug/L			09/21/16 03:21	1
1,2-Dichloropropane	ND		1.00		ug/L			09/21/16 03:21	1
Diisopropyl ether	ND		2.00		ug/L			09/21/16 03:21	1
Ethylbenzene	ND		1.00		ug/L			09/21/16 03:21	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/21/16 03:21	1
Freon 113	ND		1.00		ug/L			09/21/16 03:21	1
2-Hexanone	ND		10.0		ug/L			09/21/16 03:21	1
Isopropylbenzene	ND		1.00		ug/L			09/21/16 03:21	1
Methyl acetate	ND		10.0		ug/L			09/21/16 03:21	1
Methylcyclohexane	ND		5.00		ug/L			09/21/16 03:21	1
Methylene Chloride	ND		5.00		ug/L			09/21/16 03:21	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			09/21/16 03:21	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/21/16 03:21	1
Naphthalene	ND		5.00		ug/L			09/21/16 03:21	1
Styrene	ND		1.00		ug/L			09/21/16 03:21	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/21/16 03:21	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/21/16 03:21	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			09/21/16 03:21	1
Tetrachloroethene	ND		1.00		ug/L			09/21/16 03:21	1
Toluene	ND		1.00		ug/L			09/21/16 03:21	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			09/21/16 03:21	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			09/21/16 03:21	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			09/21/16 03:21	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-371574/7
Matrix: Water
Analysis Batch: 371574

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.00		ug/L			09/21/16 03:21	1
1,1,1-Trichloroethane	ND		1.00		ug/L			09/21/16 03:21	1
1,1,2-Trichloroethane	ND		1.00		ug/L			09/21/16 03:21	1
Trichloroethene	ND		1.00		ug/L			09/21/16 03:21	1
Trichlorofluoromethane	ND		1.00		ug/L			09/21/16 03:21	1
Vinyl chloride	ND		1.00		ug/L			09/21/16 03:21	1
m,p-Xylene	ND		2.00		ug/L			09/21/16 03:21	1
o-Xylene	ND		1.00		ug/L			09/21/16 03:21	1
Xylenes, Total	ND		3.00		ug/L			09/21/16 03:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*09/21/16 03:21*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*09/21/16 03:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*09/21/16 03:21*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*09/21/16 03:21*	*1*

Lab Sample ID: LCS 490-371574/3
Matrix: Water
Analysis Batch: 371574

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	102.3		ug/L		102	39 - 150
Benzene	20.0	19.84		ug/L		99	70 - 130
Bromochloromethane	20.0	19.94		ug/L		100	70 - 130
Bromodichloromethane	20.0	17.83		ug/L		89	70 - 130
Bromoform	20.0	15.84		ug/L		79	70 - 137
Bromomethane	20.0	17.86		ug/L		89	53 - 150
2-Butanone (MEK)	100	97.04		ug/L		97	55 - 143
Carbon disulfide	20.0	19.18		ug/L		96	64 - 135
Carbon tetrachloride	20.0	19.09		ug/L		95	70 - 147
Chlorobenzene	20.0	19.58		ug/L		98	70 - 130
Chlorodibromomethane	20.0	18.81		ug/L		94	70 - 133
Chloroethane	20.0	20.07		ug/L		100	60 - 138
Chloroform	20.0	18.81		ug/L		94	70 - 130
Chloromethane	20.0	17.59		ug/L		88	33 - 150
cis-1,2-Dichloroethene	20.0	19.66		ug/L		98	70 - 130
cis-1,3-Dichloropropene	20.0	19.37		ug/L		97	70 - 133
Cyclohexane	20.0	19.50		ug/L		97	70 - 134
1,2-Dibromo-3-Chloropropane	20.0	19.01		ug/L		95	45 - 138
1,2-Dibromoethane (EDB)	20.0	19.20		ug/L		96	70 - 130
1,2-Dichlorobenzene	20.0	19.30		ug/L		97	70 - 130
1,3-Dichlorobenzene	20.0	19.15		ug/L		96	70 - 130
1,4-Dichlorobenzene	20.0	19.30		ug/L		96	70 - 130
Dichlorodifluoromethane	20.0	20.06		ug/L		100	48 - 150
1,1-Dichloroethane	20.0	20.02		ug/L		100	70 - 130
1,2-Dichloroethane	20.0	19.31		ug/L		97	70 - 130
1,1-Dichloroethene	20.0	20.47		ug/L		102	70 - 132
1,2-Dichloropropane	20.0	19.78		ug/L		99	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-371574/3
Matrix: Water
Analysis Batch: 371574

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diisopropyl ether	20.0	19.71		ug/L		99	66 - 142
Ethylbenzene	20.0	20.25		ug/L		101	70 - 130
Ethyl tert-butyl ether	20.0	18.96		ug/L		95	63 - 135
Freon 113	20.0	20.04		ug/L		100	69 - 145
2-Hexanone	100	98.53		ug/L		99	54 - 142
Isopropylbenzene	20.0	20.00		ug/L		100	70 - 131
Methyl acetate	100	98.35		ug/L		98	56 - 136
Methylcyclohexane	20.0	19.66		ug/L		98	70 - 132
Methylene Chloride	20.0	19.01		ug/L		95	70 - 130
4-Methyl-2-pentanone (MIBK)	100	98.72		ug/L		99	60 - 137
Methyl tert-butyl ether	20.0	19.56		ug/L		98	70 - 130
Naphthalene	20.0	20.54		ug/L		103	54 - 150
Styrene	20.0	19.66		ug/L		98	70 - 130
Tert-amyl methyl ether	20.0	18.97		ug/L		95	63 - 135
tert-Butyl alcohol (TBA)	200	174.4		ug/L		87	12 - 150
1,1,2,2-Tetrachloroethane	20.0	18.32		ug/L		92	69 - 131
Tetrachloroethene	20.0	19.77		ug/L		99	70 - 130
Toluene	20.0	20.42		ug/L		102	70 - 130
trans-1,2-Dichloroethene	20.0	19.10		ug/L		96	70 - 130
trans-1,3-Dichloropropene	20.0	18.76		ug/L		94	63 - 142
1,2,3-Trichlorobenzene	20.0	20.67		ug/L		103	46 - 150
1,2,4-Trichlorobenzene	20.0	20.14		ug/L		101	58 - 147
1,1,1-Trichloroethane	20.0	18.76		ug/L		94	70 - 135
1,1,2-Trichloroethane	20.0	20.00		ug/L		100	70 - 130
Trichloroethene	20.0	19.50		ug/L		98	70 - 130
Trichlorofluoromethane	20.0	20.80		ug/L		104	59 - 150
Vinyl chloride	20.0	18.94		ug/L		95	57 - 137
m,p-Xylene	20.0	19.71		ug/L		99	70 - 130
o-Xylene	20.0	19.54		ug/L		98	70 - 130
Xylenes, Total	40.0	39.25		ug/L		98	70 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 490-371574/4
Matrix: Water
Analysis Batch: 371574

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	100	103.8		ug/L		104	39 - 150	2	23
Benzene	20.0	19.64		ug/L		98	70 - 130	1	12
Bromochloromethane	20.0	20.30		ug/L		101	70 - 130	2	16
Bromodichloromethane	20.0	18.92		ug/L		95	70 - 130	6	14
Bromoform	20.0	16.15		ug/L		81	70 - 137	2	14
Bromomethane	20.0	17.34		ug/L		87	53 - 150	3	19

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-371574/4
Matrix: Water
Analysis Batch: 371574

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Butanone (MEK)	100	98.09		ug/L		98	55 - 143	1	19
Carbon disulfide	20.0	19.03		ug/L		95	64 - 135	1	16
Carbon tetrachloride	20.0	19.09		ug/L		95	70 - 147	0	16
Chlorobenzene	20.0	19.78		ug/L		99	70 - 130	1	12
Chlorodibromomethane	20.0	18.88		ug/L		94	70 - 133	0	13
Chloroethane	20.0	19.77		ug/L		99	60 - 138	2	15
Chloroform	20.0	19.25		ug/L		96	70 - 130	2	14
Chloromethane	20.0	16.04		ug/L		80	33 - 150	9	20
cis-1,2-Dichloroethene	20.0	19.58		ug/L		98	70 - 130	0	15
cis-1,3-Dichloropropene	20.0	18.96		ug/L		95	70 - 133	2	15
Cyclohexane	20.0	19.66		ug/L		98	70 - 134	1	16
1,2-Dibromo-3-Chloropropane	20.0	19.53		ug/L		98	45 - 138	3	19
1,2-Dibromoethane (EDB)	20.0	19.12		ug/L		96	70 - 130	0	13
1,2-Dichlorobenzene	20.0	19.90		ug/L		100	70 - 130	3	12
1,3-Dichlorobenzene	20.0	19.47		ug/L		97	70 - 130	2	13
1,4-Dichlorobenzene	20.0	19.86		ug/L		99	70 - 130	3	12
Dichlorodifluoromethane	20.0	19.77		ug/L		99	48 - 150	1	16
1,1-Dichloroethane	20.0	19.71		ug/L		99	70 - 130	2	17
1,2-Dichloroethane	20.0	19.52		ug/L		98	70 - 130	1	13
1,1-Dichloroethene	20.0	20.86		ug/L		104	70 - 132	2	20
1,2-Dichloropropane	20.0	19.17		ug/L		96	70 - 130	3	15
Diisopropyl ether	20.0	19.83		ug/L		99	66 - 142	1	14
Ethylbenzene	20.0	20.09		ug/L		100	70 - 130	1	12
Ethyl tert-butyl ether	20.0	19.30		ug/L		96	63 - 135	2	15
Freon 113	20.0	20.21		ug/L		101	69 - 145	1	16
2-Hexanone	100	98.53		ug/L		99	54 - 142	0	17
Isopropylbenzene	20.0	19.82		ug/L		99	70 - 131	1	13
Methyl acetate	100	99.65		ug/L		100	56 - 136	1	18
Methylcyclohexane	20.0	19.78		ug/L		99	70 - 132	1	17
Methylene Chloride	20.0	19.26		ug/L		96	70 - 130	1	15
4-Methyl-2-pentanone (MIBK)	100	99.24		ug/L		99	60 - 137	1	21
Methyl tert-butyl ether	20.0	19.69		ug/L		98	70 - 130	1	16
Naphthalene	20.0	20.60		ug/L		103	54 - 150	0	15
Styrene	20.0	19.70		ug/L		99	70 - 130	0	12
Tert-amyl methyl ether	20.0	19.02		ug/L		95	63 - 135	0	15
tert-Butyl alcohol (TBA)	200	176.7		ug/L		88	12 - 150	1	46
1,1,2,2-Tetrachloroethane	20.0	19.14		ug/L		96	69 - 131	4	15
Tetrachloroethene	20.0	19.58		ug/L		98	70 - 130	1	17
Toluene	20.0	20.13		ug/L		101	70 - 130	1	13
trans-1,2-Dichloroethene	20.0	19.12		ug/L		96	70 - 130	0	15
trans-1,3-Dichloropropene	20.0	18.72		ug/L		94	63 - 142	0	13
1,2,3-Trichlorobenzene	20.0	20.66		ug/L		103	46 - 150	0	16
1,2,4-Trichlorobenzene	20.0	20.65		ug/L		103	58 - 147	2	15
1,1,1-Trichloroethane	20.0	18.94		ug/L		95	70 - 135	1	15
1,1,2-Trichloroethane	20.0	20.06		ug/L		100	70 - 130	0	13
Trichloroethene	20.0	19.93		ug/L		100	70 - 130	2	14
Trichlorofluoromethane	20.0	20.43		ug/L		102	59 - 150	2	22
Vinyl chloride	20.0	18.80		ug/L		94	57 - 137	1	15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-371574/4
Matrix: Water
Analysis Batch: 371574

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
m,p-Xylene			20.0	19.61		ug/L		98	70 - 130	1	12
o-Xylene			20.0	19.51		ug/L		98	70 - 130	0	11
Xylenes, Total			40.0	39.12		ug/L		98	70 - 132	0	11

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: 490-111969-3 MS
Matrix: Water
Analysis Batch: 371574

Client Sample ID: GAC-1 EFF
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acetone	ND		100	111.7		ug/L		112	39 - 150		
Benzene	ND		20.0	23.05		ug/L		115	55 - 147		
Bromochloromethane	ND		20.0	22.91		ug/L		115	59 - 132		
Bromodichloromethane	ND		20.0	21.16		ug/L		106	70 - 140		
Bromoform	ND		20.0	17.18		ug/L		86	53 - 150		
Bromomethane	ND		20.0	19.72		ug/L		99	30 - 150		
2-Butanone (MEK)	ND		100	106.5		ug/L		107	50 - 143		
Carbon disulfide	ND		20.0	22.74		ug/L		114	35 - 150		
Carbon tetrachloride	ND		20.0	22.60		ug/L		113	56 - 150		
Chlorobenzene	ND		20.0	22.27		ug/L		111	70 - 130		
Chlorodibromomethane	ND		20.0	20.83		ug/L		104	66 - 140		
Chloroethane	ND		20.0	24.57		ug/L		123	58 - 141		
Chloroform	ND		20.0	22.39		ug/L		112	66 - 138		
Chloromethane	ND		20.0	22.62		ug/L		113	10 - 150		
cis-1,2-Dichloroethene	ND		20.0	22.41		ug/L		112	68 - 131		
cis-1,3-Dichloropropene	ND		20.0	21.22		ug/L		106	70 - 133		
Cyclohexane	ND		20.0	23.97		ug/L		120	48 - 150		
1,2-Dibromo-3-Chloropropane	ND		20.0	19.41		ug/L		97	38 - 138		
1,2-Dibromoethane (EDB)	ND		20.0	20.90		ug/L		105	65 - 137		
1,2-Dichlorobenzene	ND		20.0	21.35		ug/L		107	70 - 130		
1,3-Dichlorobenzene	ND		20.0	21.11		ug/L		106	68 - 131		
1,4-Dichlorobenzene	ND		20.0	21.36		ug/L		107	70 - 130		
Dichlorodifluoromethane	ND		20.0	24.08		ug/L		120	10 - 150		
1,1-Dichloroethane	ND		20.0	22.93		ug/L		115	61 - 139		
1,2-Dichloroethane	ND		20.0	22.69		ug/L		113	64 - 136		
1,1-Dichloroethene	ND		20.0	25.14		ug/L		126	54 - 150		
1,2-Dichloropropane	ND		20.0	22.79		ug/L		114	67 - 130		
Diisopropyl ether	ND		20.0	22.47		ug/L		112	56 - 142		
Ethylbenzene	ND		20.0	23.33		ug/L		117	65 - 139		
Ethyl tert-butyl ether	ND		20.0	21.48		ug/L		107	53 - 138		
Freon 113	ND		20.0	24.46		ug/L		122	63 - 150		
2-Hexanone	ND		100	102.1		ug/L		102	44 - 150		
Isopropylbenzene	ND		20.0	22.98		ug/L		115	70 - 137		

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-111969-3 MS
Matrix: Water
Analysis Batch: 371574

Client Sample ID: GAC-1 EFF
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl acetate	ND		100	95.88		ug/L		96	42 - 136
Methylcyclohexane	ND		20.0	23.35		ug/L		117	59 - 150
Methylene Chloride	ND		20.0	22.27		ug/L		111	64 - 130
4-Methyl-2-pentanone (MIBK)	ND		100	104.5		ug/L		105	50 - 140
Methyl tert-butyl ether	ND		20.0	21.77		ug/L		109	55 - 141
Naphthalene	ND		20.0	21.36		ug/L		107	32 - 150
Styrene	ND		20.0	21.96		ug/L		110	70 - 130
Tert-amyl methyl ether	ND		20.0	21.19		ug/L		106	47 - 148
tert-Butyl alcohol (TBA)	ND		200	192.7		ug/L		96	10 - 150
1,1,2,2-Tetrachloroethane	ND		20.0	20.17		ug/L		101	56 - 145
Tetrachloroethene	ND		20.0	22.93		ug/L		115	57 - 138
Toluene	ND		20.0	23.03		ug/L		115	64 - 136
trans-1,2-Dichloroethene	ND		20.0	23.01		ug/L		115	59 - 143
trans-1,3-Dichloropropene	ND		20.0	20.31		ug/L		102	63 - 142
1,2,3-Trichlorobenzene	ND		20.0	21.16		ug/L		106	36 - 150
1,2,4-Trichlorobenzene	ND		20.0	21.55		ug/L		108	47 - 147
1,1,1-Trichloroethane	ND		20.0	22.42		ug/L		112	68 - 144
1,1,2-Trichloroethane	ND		20.0	22.26		ug/L		111	70 - 130
Trichloroethene	ND		20.0	22.67		ug/L		113	63 - 135
Trichlorofluoromethane	ND		20.0	25.98		ug/L		130	44 - 150
Vinyl chloride	ND		20.0	23.86		ug/L		119	57 - 150
m,p-Xylene	ND		20.0	22.73		ug/L		114	70 - 130
o-Xylene	ND		20.0	22.32		ug/L		112	70 - 131
Xylenes, Total	ND		40.0	45.05		ug/L		113	69 - 132

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: 490-111969-3 MSD
Matrix: Water
Analysis Batch: 371574

Client Sample ID: GAC-1 EFF
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		100	85.10		ug/L		85	39 - 150	27	28
Benzene	ND		20.0	20.78		ug/L		104	55 - 147	10	22
Bromochloromethane	ND		20.0	20.87		ug/L		104	59 - 132	9	21
Bromodichloromethane	ND		20.0	19.36		ug/L		97	70 - 140	9	196
Bromoform	ND		20.0	15.32		ug/L		77	53 - 150	11	20
Bromomethane	ND		20.0	19.06		ug/L		95	30 - 150	3	44
2-Butanone (MEK)	ND		100	92.93		ug/L		93	50 - 143	14	28
Carbon disulfide	ND		20.0	20.67		ug/L		103	35 - 150	10	34
Carbon tetrachloride	ND		20.0	20.75		ug/L		104	56 - 150	9	18
Chlorobenzene	ND		20.0	20.47		ug/L		102	70 - 130	8	15
Chlorodibromomethane	ND		20.0	18.49		ug/L		92	66 - 140	12	19
Chloroethane	ND		20.0	22.22		ug/L		111	58 - 141	10	31

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-111969-3 MSD
Matrix: Water
Analysis Batch: 371574

Client Sample ID: GAC-1 EFF
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroform	ND		20.0	20.54		ug/L		103	66 - 138	9	21
Chloromethane	ND		20.0	20.63		ug/L		103	10 - 150	9	43
cis-1,2-Dichloroethene	ND		20.0	20.69		ug/L		103	68 - 131	8	21
cis-1,3-Dichloropropene	ND		20.0	18.91		ug/L		95	70 - 133	12	19
Cyclohexane	ND		20.0	21.95		ug/L		110	48 - 150	9	22
1,2-Dibromo-3-Chloropropane	ND		20.0	18.03		ug/L		90	38 - 138	7	26
1,2-Dibromoethane (EDB)	ND		20.0	19.05		ug/L		95	65 - 137	9	21
1,2-Dichlorobenzene	ND		20.0	19.34		ug/L		97	70 - 130	10	15
1,3-Dichlorobenzene	ND		20.0	19.40		ug/L		97	68 - 131	8	14
1,4-Dichlorobenzene	ND		20.0	19.74		ug/L		99	70 - 130	8	14
Dichlorodifluoromethane	ND		20.0	22.16		ug/L		111	10 - 150	8	50
1,1-Dichloroethane	ND		20.0	20.86		ug/L		104	61 - 139	9	23
1,2-Dichloroethane	ND		20.0	19.35		ug/L		97	64 - 136	16	22
1,1-Dichloroethene	ND		20.0	22.62		ug/L		113	54 - 150	11	24
1,2-Dichloropropane	ND		20.0	20.37		ug/L		102	67 - 130	11	19
Diisopropyl ether	ND		20.0	20.25		ug/L		101	56 - 142	10	22
Ethylbenzene	ND		20.0	21.11		ug/L		106	65 - 139	10	18
Ethyl tert-butyl ether	ND		20.0	19.43		ug/L		97	53 - 138	10	22
Freon 113	ND		20.0	22.23		ug/L		111	63 - 150	10	22
2-Hexanone	ND		100	90.26		ug/L		90	44 - 150	12	21
Isopropylbenzene	ND		20.0	20.72		ug/L		104	70 - 137	10	17
Methyl acetate	ND		100	85.33		ug/L		85	42 - 136	12	26
Methylcyclohexane	ND		20.0	21.27		ug/L		106	59 - 150	9	20
Methylene Chloride	ND		20.0	20.07		ug/L		100	64 - 130	10	22
4-Methyl-2-pentanone (MIBK)	ND		100	93.27		ug/L		93	50 - 140	11	24
Methyl tert-butyl ether	ND		20.0	19.57		ug/L		98	55 - 141	11	24
Naphthalene	ND		20.0	19.45		ug/L		97	32 - 150	9	40
Styrene	ND		20.0	20.32		ug/L		102	70 - 130	8	16
Tert-amyl methyl ether	ND		20.0	19.05		ug/L		95	47 - 148	11	23
tert-Butyl alcohol (TBA)	ND		200	166.9		ug/L		83	10 - 150	14	47
1,1,2,2-Tetrachloroethane	ND		20.0	18.36		ug/L		92	56 - 145	9	19
Tetrachloroethene	ND		20.0	21.08		ug/L		105	57 - 138	8	17
Toluene	ND		20.0	21.43		ug/L		107	64 - 136	7	18
trans-1,2-Dichloroethene	ND		20.0	21.07		ug/L		105	59 - 143	9	25
trans-1,3-Dichloropropene	ND		20.0	18.33		ug/L		92	63 - 142	10	18
1,2,3-Trichlorobenzene	ND		20.0	19.65		ug/L		98	36 - 150	7	43
1,2,4-Trichlorobenzene	ND		20.0	19.57		ug/L		98	47 - 147	10	24
1,1,1-Trichloroethane	ND		20.0	20.72		ug/L		104	68 - 144	8	17
1,1,2-Trichloroethane	ND		20.0	19.77		ug/L		99	70 - 130	12	18
Trichloroethene	ND		20.0	20.67		ug/L		103	63 - 135	9	17
Trichlorofluoromethane	ND		20.0	24.02		ug/L		120	44 - 150	8	32
Vinyl chloride	ND		20.0	21.82		ug/L		109	57 - 150	9	37
m,p-Xylene	ND		20.0	20.71		ug/L		104	70 - 130	9	17
o-Xylene	ND		20.0	20.19		ug/L		101	70 - 131	10	17
Xylenes, Total	ND		40.0	40.90		ug/L		102	69 - 132	10	17

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-111969-3 MSD
Matrix: Water
Analysis Batch: 371574

Client Sample ID: GAC-1 EFF
Prep Type: Total/NA

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Lab Sample ID: MB 490-371341/8
Matrix: Water
Analysis Batch: 371341

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			09/20/16 16:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*87*		*50 - 150*		*09/20/16 16:55*	*1*

Lab Sample ID: LCS 490-371341/22
Matrix: Water
Analysis Batch: 371341

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]			1000	944.4		ug/L		94	66 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*128*		*50 - 150*

Lab Sample ID: LCSD 490-371341/23
Matrix: Water
Analysis Batch: 371341

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]			1000	945.8		ug/L		95	66 - 140	0	42

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*126*		*50 - 150*

Lab Sample ID: MB 490-371346/19
Matrix: Water
Analysis Batch: 371346

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			09/20/16 19:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*90*		*50 - 150*		*09/20/16 19:16*	*1*

QC Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Lab Sample ID: LCS 490-371346/17
Matrix: Water
Analysis Batch: 371346

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]			1000	1106		ug/L		111	66 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*88*		*50 - 150*

Lab Sample ID: LCSD 490-371346/18
Matrix: Water
Analysis Batch: 371346

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]			1000	1088		ug/L		109	66 - 140	2	42

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*89*		*50 - 150*

Lab Sample ID: 490-111969-2 MS
Matrix: Water
Analysis Batch: 371346

Client Sample ID: A/S EFF
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]	ND		1000	948.6		ug/L		95	33 - 175		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*88*		*50 - 150*

Lab Sample ID: 490-111969-2 MSD
Matrix: Water
Analysis Batch: 371346

Client Sample ID: A/S EFF
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		1000	895.1		ug/L		90	33 - 175	6	42

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*87*		*50 - 150*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 490-371342/8
Matrix: Water
Analysis Batch: 371342

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			09/20/16 16:55	1
Ethylbenzene	ND		1.00		ug/L			09/20/16 16:55	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/20/16 16:55	1
Toluene	ND		1.00		ug/L			09/20/16 16:55	1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 490-371342/8
Matrix: Water
Analysis Batch: 371342

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		3.00		ug/L			09/20/16 16:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*91*		*50 - 150*		*09/20/16 16:55*	*1*

Lab Sample ID: LCS 490-371342/4
Matrix: Water
Analysis Batch: 371342

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	100	103.6		ug/L		104	69 - 129
Ethylbenzene	100	103.7		ug/L		104	70 - 130
Methyl tert-butyl ether	100	87.47		ug/L		87	57 - 138
Toluene	100	103.0		ug/L		103	66 - 127
Xylenes, Total	300	320.9		ug/L		107	69 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*104*		*50 - 150*

Lab Sample ID: LCSD 490-371342/24
Matrix: Water
Analysis Batch: 371342

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	100	103.4		ug/L		103	69 - 129	0	33
Ethylbenzene	100	101.8		ug/L		102	70 - 130	2	35
Methyl tert-butyl ether	100	80.92		ug/L		81	57 - 138	8	40
Toluene	100	101.6		ug/L		102	66 - 127	1	34
Xylenes, Total	300	314.0		ug/L		105	69 - 123	2	37

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*105*		*50 - 150*

Lab Sample ID: MB 490-372291/14
Matrix: Water
Analysis Batch: 372291

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			09/22/16 23:50	1
Ethylbenzene	ND		1.00		ug/L			09/22/16 23:50	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/22/16 23:50	1
Toluene	ND		1.00		ug/L			09/22/16 23:50	1
Xylenes, Total	ND		3.00		ug/L			09/22/16 23:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*99*		*50 - 150*		*09/22/16 23:50*	*1*

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 490-372291/23
Matrix: Water
Analysis Batch: 372291

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	100	97.49		ug/L		97	69 - 129
Ethylbenzene	100	97.82		ug/L		98	70 - 130
Methyl tert-butyl ether	100	94.10		ug/L		94	57 - 138
Toluene	100	97.37		ug/L		97	66 - 127
Xylenes, Total	200	194.8		ug/L		97	69 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*95*		*50 - 150*

Lab Sample ID: LCSD 490-372291/24
Matrix: Water
Analysis Batch: 372291

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	100	98.21		ug/L		98	69 - 129	1	33
Ethylbenzene	100	98.26		ug/L		98	70 - 130	0	35
Methyl tert-butyl ether	100	96.85		ug/L		97	57 - 138	3	40
Toluene	100	97.87		ug/L		98	66 - 127	1	34
Xylenes, Total	200	195.8		ug/L		98	69 - 123	1	37

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*98*		*50 - 150*

QC Association Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

GC/MS VOA

Analysis Batch: 371574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-111969-1	A/S INF	Total/NA	Water	8260B	
490-111969-2	A/S EFF	Total/NA	Water	8260B	
490-111969-3	GAC-1 EFF	Total/NA	Water	8260B	
490-111969-5	MW-1	Total/NA	Water	8260B	
490-111969-6	MW-2	Total/NA	Water	8260B	
490-111969-7	MW-3	Total/NA	Water	8260B	
490-111969-8	MW-4	Total/NA	Water	8260B	
490-111969-9	MW-5	Total/NA	Water	8260B	
490-111969-10	MW-6	Total/NA	Water	8260B	
490-111969-11	MW-7	Total/NA	Water	8260B	
490-111969-12	MW-8	Total/NA	Water	8260B	
490-111969-13	MW-9	Total/NA	Water	8260B	
490-111969-14	MW-10	Total/NA	Water	8260B	
MB 490-371574/7	Method Blank	Total/NA	Water	8260B	
LCS 490-371574/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-371574/4	Lab Control Sample Dup	Total/NA	Water	8260B	
490-111969-3 MS	GAC-1 EFF	Total/NA	Water	8260B	
490-111969-3 MSD	GAC-1 EFF	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 371341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-111969-4	GAC-2 FINAL	Total/NA	Water	8015C	
MB 490-371341/8	Method Blank	Total/NA	Water	8015C	
LCS 490-371341/22	Lab Control Sample	Total/NA	Water	8015C	
LCSD 490-371341/23	Lab Control Sample Dup	Total/NA	Water	8015C	

Analysis Batch: 371342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-111969-4	GAC-2 FINAL	Total/NA	Water	8021B	
MB 490-371342/8	Method Blank	Total/NA	Water	8021B	
LCS 490-371342/4	Lab Control Sample	Total/NA	Water	8021B	
LCSD 490-371342/24	Lab Control Sample Dup	Total/NA	Water	8021B	

Analysis Batch: 371346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-111969-1	A/S INF	Total/NA	Water	8015C	
490-111969-2	A/S EFF	Total/NA	Water	8015C	
490-111969-3	GAC-1 EFF	Total/NA	Water	8015C	
490-111969-5	MW-1	Total/NA	Water	8015C	
490-111969-6	MW-2	Total/NA	Water	8015C	
490-111969-7	MW-3	Total/NA	Water	8015C	
490-111969-8	MW-4	Total/NA	Water	8015C	
490-111969-9	MW-5	Total/NA	Water	8015C	
490-111969-10	MW-6	Total/NA	Water	8015C	
490-111969-11	MW-7	Total/NA	Water	8015C	
490-111969-12	MW-8	Total/NA	Water	8015C	
490-111969-13	MW-9	Total/NA	Water	8015C	
490-111969-14	MW-10	Total/NA	Water	8015C	

GC VOA (Continued)

Analysis Batch: 371346 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 490-371346/19	Method Blank	Total/NA	Water	8015C	
LCS 490-371346/17	Lab Control Sample	Total/NA	Water	8015C	
LCSD 490-371346/18	Lab Control Sample Dup	Total/NA	Water	8015C	
490-111969-2 MS	A/S EFF	Total/NA	Water	8015C	
490-111969-2 MSD	A/S EFF	Total/NA	Water	8015C	

Analysis Batch: 372291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-111969-4	GAC-2 FINAL	Total/NA	Water	8021B	
MB 490-372291/14	Method Blank	Total/NA	Water	8021B	
LCS 490-372291/23	Lab Control Sample	Total/NA	Water	8021B	
LCSD 490-372291/24	Lab Control Sample Dup	Total/NA	Water	8021B	

Lab Chronicle

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: A/S INF
Date Collected: 09/16/16 13:20
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	371574	09/21/16 10:18	NC	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	371346	09/20/16 19:49	A1B	TAL NSH

Client Sample ID: A/S EFF
Date Collected: 09/16/16 13:10
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	371574	09/21/16 04:50	NC	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	371346	09/20/16 20:22	A1B	TAL NSH

Client Sample ID: GAC-1 EFF
Date Collected: 09/16/16 13:00
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	371574	09/21/16 04:21	NC	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	371346	09/20/16 22:31	A1B	TAL NSH

Client Sample ID: GAC-2 FINAL
Date Collected: 09/16/16 12:50
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015C		1	5 mL	5 mL	371341	09/20/16 21:03	GWM	TAL NSH
Total/NA	Analysis	8021B		1	5 mL	5 mL	371342	09/20/16 21:03	GWM	TAL NSH
Total/NA	Analysis	8021B		1	5 mL	5 mL	372291	09/23/16 03:59	GWM	TAL NSH

Client Sample ID: MW-1
Date Collected: 09/16/16 15:15
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	371574	09/21/16 05:20	NC	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	371346	09/20/16 23:03	A1B	TAL NSH

Lab Chronicle

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-2
Lab Sample ID: 490-111969-6
Date Collected: 09/16/16 16:00
Matrix: Water
Date Received: 09/17/16 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	371574	09/21/16 05:50	NC	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	371346	09/20/16 23:35	A1B	TAL NSH

Client Sample ID: MW-3
Lab Sample ID: 490-111969-7
Date Collected: 09/16/16 15:45
Matrix: Water
Date Received: 09/17/16 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	371574	09/21/16 06:20	NC	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	371346	09/21/16 00:07	A1B	TAL NSH

Client Sample ID: MW-4
Lab Sample ID: 490-111969-8
Date Collected: 09/16/16 15:30
Matrix: Water
Date Received: 09/17/16 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	371574	09/21/16 06:50	NC	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	371346	09/21/16 00:39	A1B	TAL NSH

Client Sample ID: MW-5
Lab Sample ID: 490-111969-9
Date Collected: 09/16/16 15:00
Matrix: Water
Date Received: 09/17/16 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	371574	09/21/16 07:49	NC	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	371346	09/21/16 01:10	A1B	TAL NSH

Client Sample ID: MW-6
Lab Sample ID: 490-111969-10
Date Collected: 09/16/16 16:40
Matrix: Water
Date Received: 09/17/16 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	371574	09/21/16 07:19	NC	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	371346	09/21/16 01:42	A1B	TAL NSH

Client Sample ID: MW-7
Lab Sample ID: 490-111969-11
Date Collected: 09/16/16 17:00
Matrix: Water
Date Received: 09/17/16 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	371574	09/21/16 08:19	NC	TAL NSH

Lab Chronicle

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-7
Date Collected: 09/16/16 17:00
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015C		1	5 mL	5 mL	371346	09/21/16 02:14	A1B	TAL NSH

Client Sample ID: MW-8
Date Collected: 09/16/16 13:30
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	371574	09/21/16 09:19	NC	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	371346	09/21/16 02:45	A1B	TAL NSH

Client Sample ID: MW-9
Date Collected: 09/16/16 13:40
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	371574	09/21/16 09:48	NC	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	371346	09/21/16 03:17	A1B	TAL NSH

Client Sample ID: MW-10
Date Collected: 09/16/16 13:50
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	371574	09/21/16 08:49	NC	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	371346	09/21/16 03:49	A1B	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
8015C	Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	SW846	TAL NSH
8021B	Volatile Organic Compounds (GC)	SW846	TAL NSH

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	A2LA		NA: NELAP & A2LA	12-31-17
A2LA	ISO/IEC 17025		0453.07	12-31-17
Alaska (UST)	State Program	10	UST-087	07-24-17
Arizona	State Program	9	AZ0473	05-05-17
Arkansas DEQ	State Program	6	88-0737	04-25-17
California	State Program	9	2938	10-31-16
Connecticut	State Program	1	PH-0220	12-31-17
Florida	NELAP	4	E87358	06-30-17
Georgia	State Program	4	N/A	12-31-17
Illinois	NELAP	5	200010	12-09-16 *
Iowa	State Program	7	131	04-01-18
Kansas	NELAP	7	E-10229	10-31-16 *
Kentucky (UST)	State Program	4	19	06-30-17
Kentucky (WW)	State Program	4	90038	12-31-16
Louisiana	NELAP	6	30613	06-30-17
Maine	State Program	1	TN00032	11-03-17
Maryland	State Program	3	316	03-31-17
Massachusetts	State Program	1	M-TN032	06-30-17
Minnesota	NELAP	5	047-999-345	12-31-16 *
Mississippi	State Program	4	N/A	06-30-16 *
Montana (UST)	State Program	8	NA	02-24-20
Nevada	State Program	9	TN00032	07-31-17
New Hampshire	NELAP	1	2963	10-09-16 *
New Jersey	NELAP	2	TN965	06-30-17
New York	NELAP	2	11342	03-31-17
North Carolina (WW/SW)	State Program	4	387	12-31-16
North Dakota	State Program	8	R-146	06-30-17
Ohio VAP	State Program	5	CL0033	07-10-17
Oklahoma	State Program	6	9412	08-31-17
Oregon	NELAP	10	TN200001	04-27-17
Pennsylvania	NELAP	3	68-00585	06-30-17
Rhode Island	State Program	1	LAO00268	12-30-16
South Carolina	State Program	4	84009 (001)	02-18-17
South Carolina (Do Not Use - DW)	State Program	4	84009 (002)	12-16-17
Tennessee	State Program	4	2008	02-23-17
Texas	NELAP	6	T104704077	08-31-17
USDA	Federal		P330-13-00306	10-30-16
Utah	NELAP	8	TN00032	07-31-17
Virginia	NELAP	3	460152	06-14-17
Washington	State Program	10	C789	07-19-17
West Virginia DEP	State Program	3	219	02-28-17
Wisconsin	State Program	5	998020430	08-31-17
Wyoming (UST)	A2LA	8	453.07	12-31-17

* Certification renewal pending - certification considered valid.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

490-111969 Chain of Custody

Cooler Received/Opened On 9/17/2016 @ 0950

Time Samples Removed From Cooler_____ Time Samples Placed In Storage_____ (2 Hour Window)

1. Tracking # 1448 (last 4 digits, FedEx) Courier: _FedEx_

   IR Gun ID 14740456 pH Strip Lot HC58117 Chlorine Strip Lot 71130

2. Temperature of rep. sample or temp blank when opened: 3.2 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES..NO...NA

   If yes, how many and where: (2) Front

5. Were the seals intact, signed, and dated correctly? YES..NO...NA

6. Were custody papers inside cooler? YES..NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

   Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES NO NA DA 9-17-16

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

   b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) DA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA

   b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) DA

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) DA

I certify that I attached a label with the unique LIMS number to each container (intial) DA

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#_____

* One vial was BIS for sample GAC-1 EFF.
* one vial was BIS for sample MW-9.

BIS = Broken in shipment

Loc: 490
111969

TestAmerica Nashville
2960 Foster Creighton Drive

Nashville, TN 37204-3719
phone 615.726.0177 fax 615.726.3404

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

9/23/2016

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: John Canzeri	Site Contact: Mike Parsons	11/10/2015	COC No:
AECOM	Tel/Fax: 301-289-3805	Lab Contact: Salomon, Sherry	Carrier:	1 of 1 COCs
8000 Virginia Manor Rd., Suite 110	Analysis Turnaround Time			Sampler:
Beltsville, Maryland 20705	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
301-289-3900 Phone	TAT if different from Below: Standard			Walk-in Client:
301-289-3901 FAX	☐ 2 weeks			Lab Sampling:
Project Name: 32785.Hampstead.EL	☐ 1 week			
Site: 125 Hanover Pike, Hampstead, MD	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			AECOM's Job #60338398

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	BTEX + Oxy 8260	BTEX/MTBE 8021	Full VOCs 8260+Oxy	Full VOCs 524.2+Oxy	TPH-GRO 8015	Sample Specific Notes:
1	A/S INF	9/16/16	1320	Grab	W	6	N	N	*				*	
2	A/S EFF		1310	Grab	W	6	N	N	*				*	
3	GAC-1 EFF		1300	Grab	W	6	N	N	*				*	
4	GAC-2 FINAL		1250	Grab	W	6	N	N		*			*	
5	MW-1		1515	Grab	W	6	N	N			*		*	
6	MW-2		1600	Grab	W	6	N	N			*		*	
7	MW-3		1545	Grab	W	6	N	N			*		*	
8	MW-4		1530	Grab	W	6	N	N			*		*	
9	MW-5		1500	Grab	W	6	N	N			*		*	
10	MW-6		1640	Grab	W	6	N	N			*		*	
11	MW-7		1700	Grab	W	6	N	N			*		*	
12	MW-8		1330	Grab	W	6	N	N			*		*	
13	MW-9		1340	Grab	W	6	N	N			*		*	
14	MW-10		1350	Grab	W	6	N	N			*		*	
	~~7-11 Potable (P.O.U.)~~			Grab	W	3	N	N				*		
	Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3, 5=NaOH, 6= Other								2	2	2	2	2	

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

7-Eleven/AECOM EDD

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company: AECOM	Date/Time: 9/16/16 1730	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company: TAN	Date/Time: 9-17-16 0950
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Temp. 3.2

Form No. CA-C-WI-002, Rev. 4.6, dated 09/02/2015

Login Sample Receipt Checklist

Client: AECOM

Job Number: 490-111969-1
SDG Number: 125 Hanover Pike, Hampstead, MD

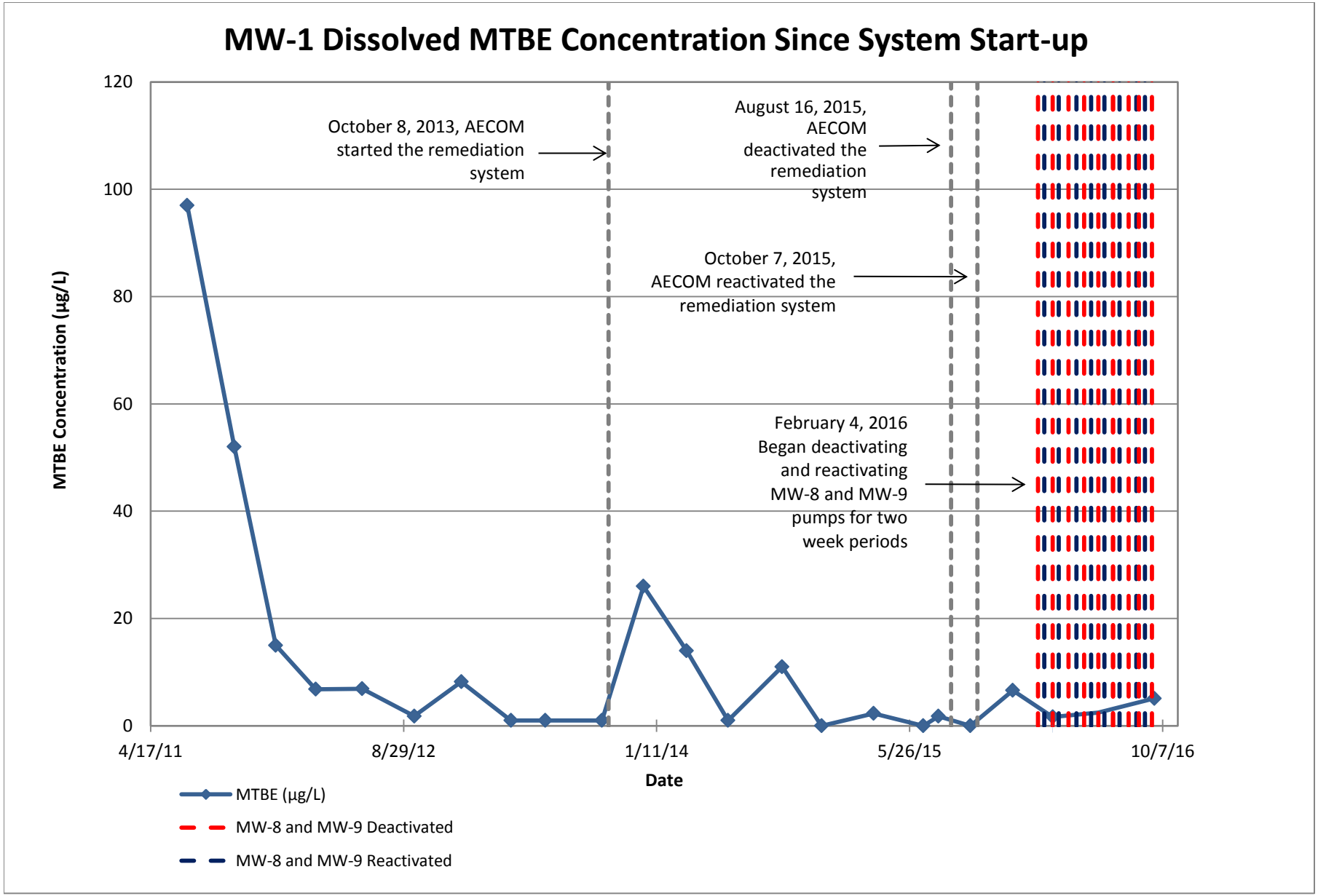
Login Number: 111969
List Number: 1
Creator: Armstrong, Daniel

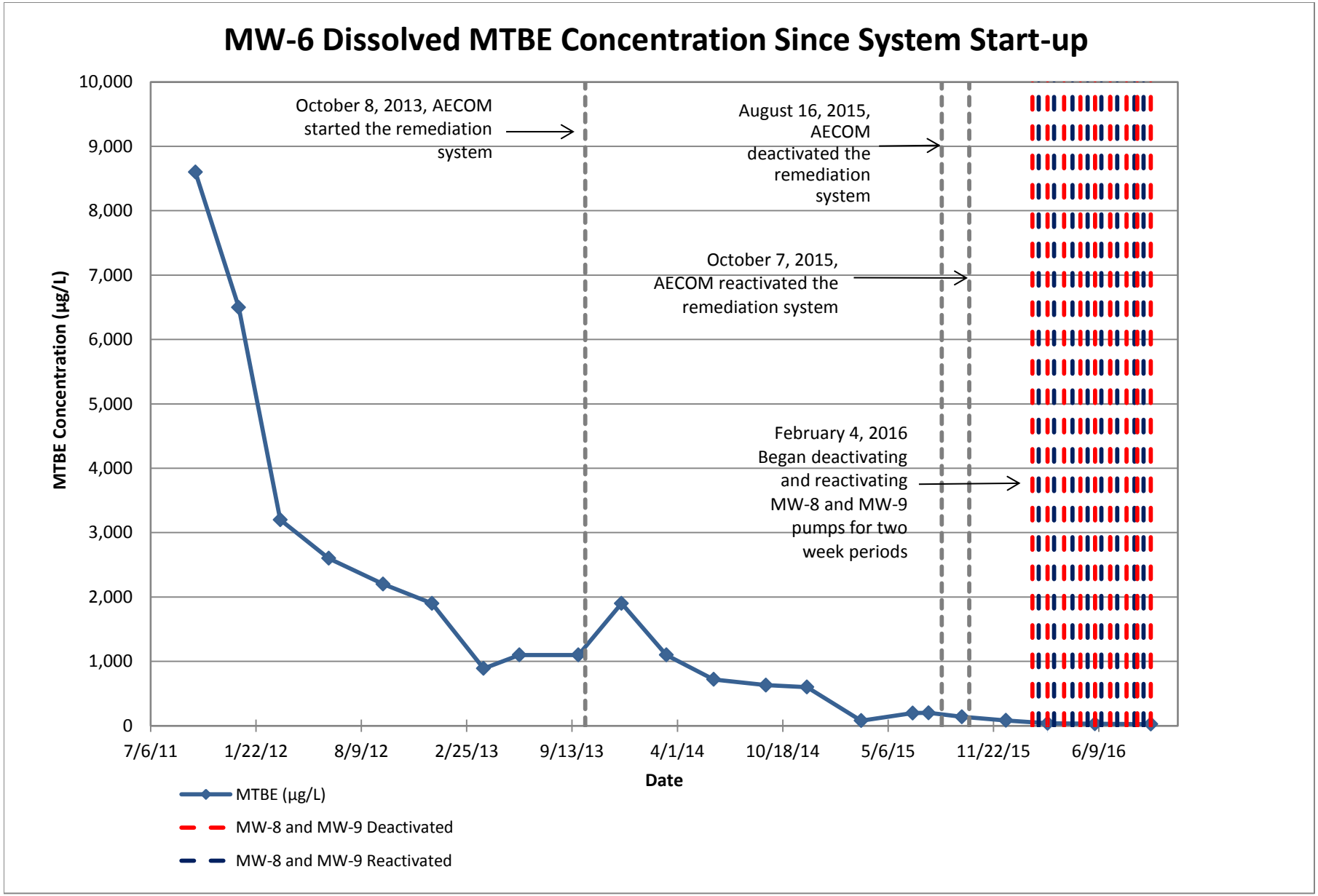
List Source: TestAmerica Nashville

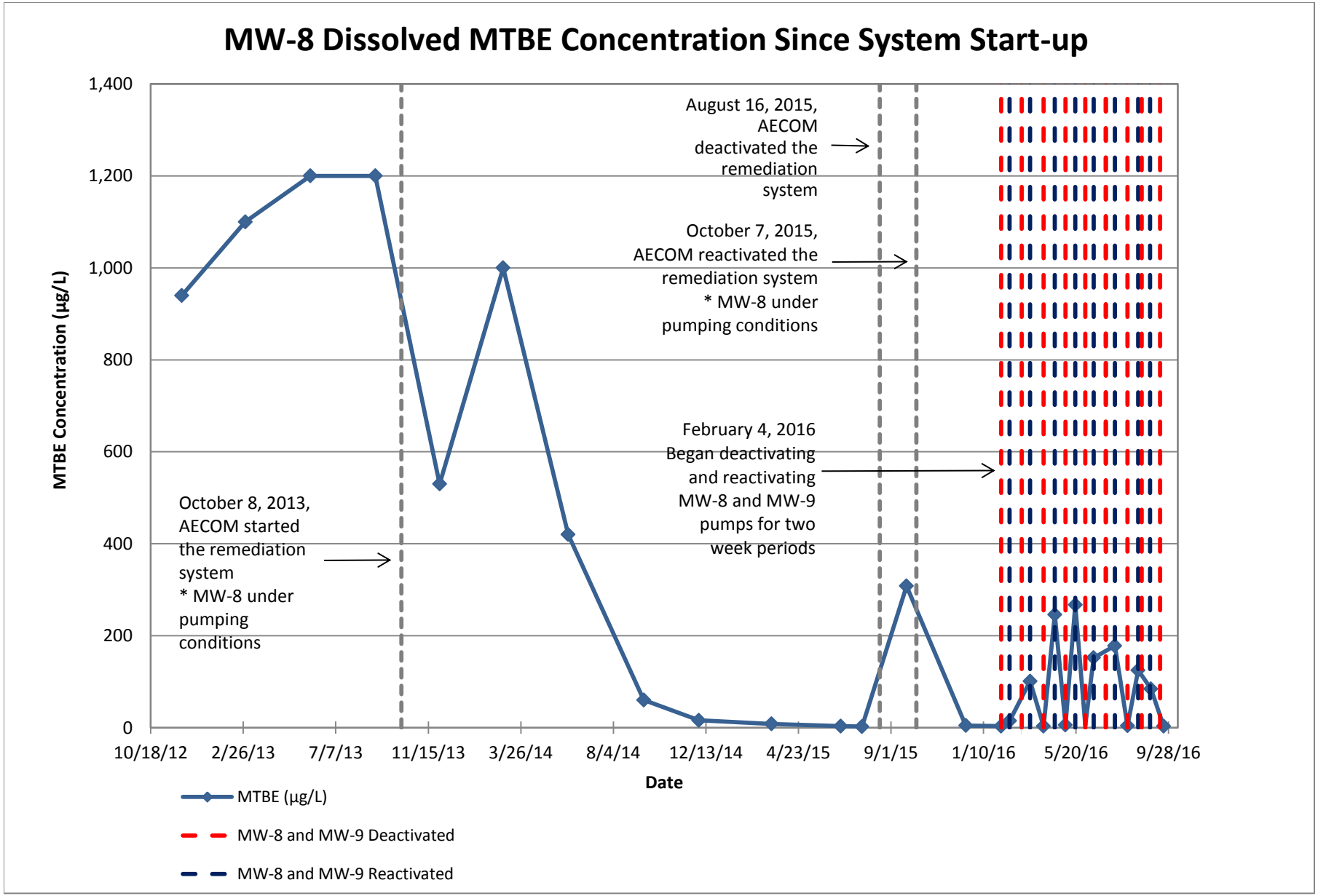
Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.2C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

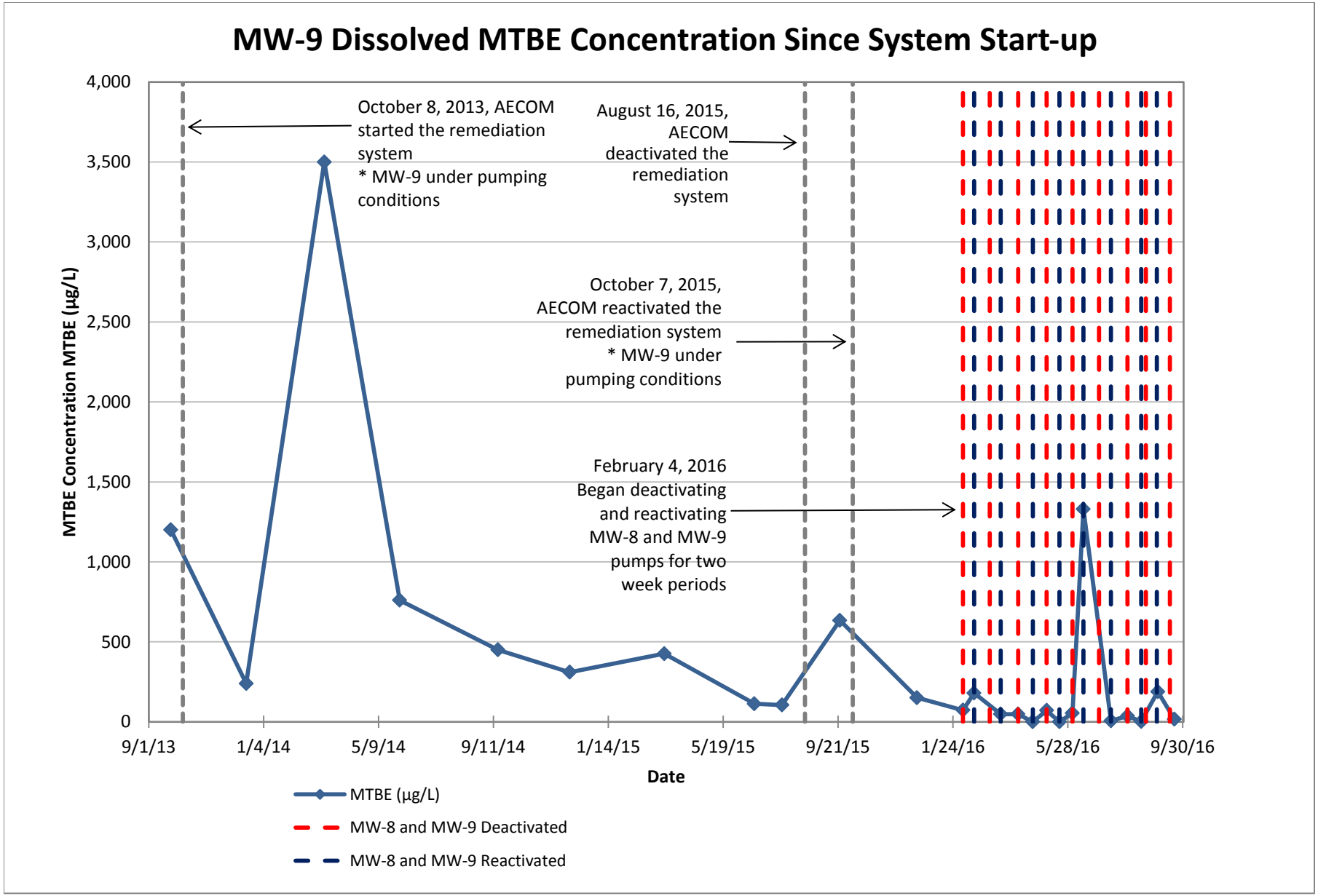
ATTACHMENT B

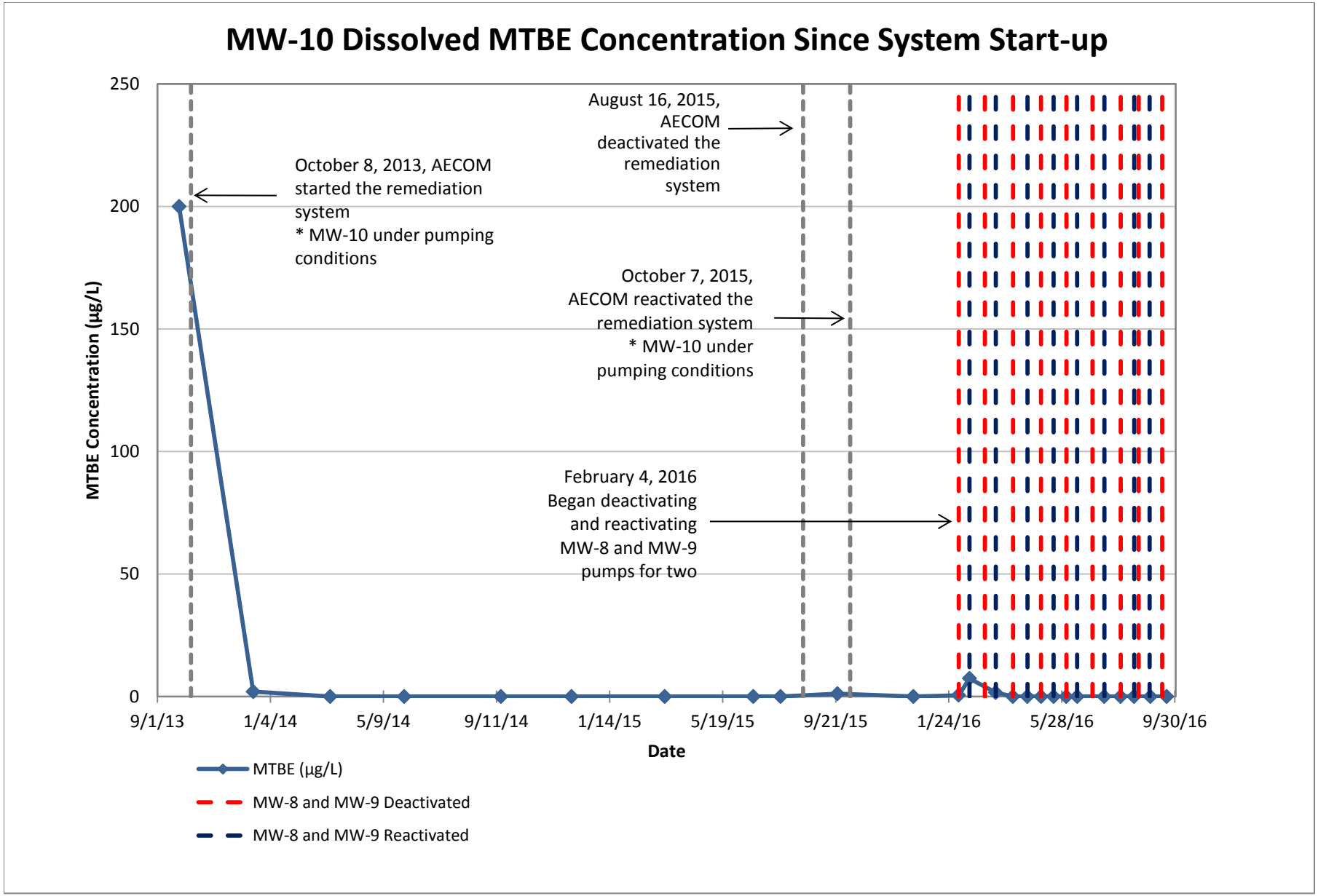
MTBE Concentration Graphs Over Time


MW-1 Dissolved MTBE Concentration Since System Start-up
MTBE Concentration (µg/L)
120
100
80
60
40
20
0
4/17/11
8/29/12
1/11/14
5/26/15
10/7/16
Date
October 8, 2013, AECOM started the remediation system
August 16, 2015, AECOM deactivated the remediation system
October 7, 2015, AECOM reactivated the remediation system
February 4, 2016 Began deactivating and reactivating MW-8 and MW-9 pumps for two week periods
MTBE (µg/L)
MW-8 and MW-9 Deactivated
MW-8 and MW-9 Reactivated


MW-6 Dissolved MTBE Concentration Since System Start-up
MTBE Concentration (µg/L)
10,000
9,000
8,000
7,000
6,000
5,000
4,000
3,000
2,000
1,000
0
7/6/11
1/22/12
8/9/12
2/25/13
9/13/13
4/1/14
10/18/14
5/6/15
11/22/15
6/9/16
Date
October 8, 2013, AECOM started the remediation system
August 16, 2015, AECOM deactivated the remediation system
October 7, 2015, AECOM reactivated the remediation system
February 4, 2016 Began deactivating and reactivating MW-8 and MW-9 pumps for two week periods
MTBE (µg/L)
MW-8 and MW-9 Deactivated
MW-8 and MW-9 Reactivated


MW-8 Dissolved MTBE Concentration Since System Start-up
MTBE Concentration (µg/L)
1,400
1,200
1,000
800
600
400
200
0
10/18/12
2/26/13
7/7/13
11/15/13
3/26/14
8/4/14
12/13/14
4/23/15
9/1/15
1/10/16
5/20/16
9/28/16
Date
August 16, 2015, AECOM deactivated the remediation system
October 7, 2015, AECOM reactivated the remediation system
* MW-8 under pumping conditions
February 4, 2016 Began deactivating and reactivating MW-8 and MW-9 pumps for two week periods
October 8, 2013, AECOM started the remediation system
* MW-8 under pumping conditions
MTBE (µg/L)
MW-8 and MW-9 Deactivated
MW-8 and MW-9 Reactivated


MW-9 Dissolved MTBE Concentration Since System Start-up
MTBE Concentration MTBE (µg/L)
4,000
3,500
3,000
2,500
2,000
1,500
1,000
500
0
9/1/13
1/4/14
5/9/14
9/11/14
1/14/15
5/19/15
9/21/15
1/24/16
5/28/16
9/30/16
Date
October 8, 2013, AECOM started the remediation system
* MW-9 under pumping conditions
August 16, 2015, AECOM deactivated the remediation system
October 7, 2015, AECOM reactivated the remediation system
* MW-9 under pumping conditions
February 4, 2016 Began deactivating and reactivating MW-8 and MW-9 pumps for two week periods
MTBE (µg/L)
MW-8 and MW-9 Deactivated
MW-8 and MW-9 Reactivated


MW-10 Dissolved MTBE Concentration Since System Start-up
MTBE Concentration (µg/L)
250
200
150
100
50
0
9/1/13
1/4/14
5/9/14
9/11/14
1/14/15
5/19/15
9/21/15
1/24/16
5/28/16
9/30/16
Date
October 8, 2013, AECOM started the remediation system
* MW-10 under pumping conditions
August 16, 2015, AECOM deactivated the remediation system
October 7, 2015, AECOM reactivated the remediation system
* MW-10 under pumping conditions
February 4, 2016 Began deactivating and reactivating MW-8 and MW-9 pumps for two
MTBE (µg/L)
MW-8 and MW-9 Deactivated
MW-8 and MW-9 Reactivated

ATTACHMENT C

7-Eleven Potable Well Laboratory Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-112878-1
TestAmerica SDG: 125 Hanover Pike, Hampstead, MD
Client Project/Site: 32785. Hampstead.EL

For:
AECOM
8000 Virginia Manor Road
Suite 110
Beltsville, Maryland 20705

Attn: Mr. John Canzeri

Authorized for release by:
10/6/2016 2:20:36 PM
Leah Klingensmith, Senior Project Manager
(615)301-5038
leah.klingensmith@testamericainc.com

Designee for

Sherry Salomon, Manager of Project Management Assistants
(615)301-5033
sherry.salomon@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Chain of Custody 17
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Sample Summary

Client: AECOM
Project/Site: 32785. Hampstead.EL

TestAmerica Job ID: 490-112878-1
SDG: 125 Hanover Pike, Hampstead, MD

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-112878-1	7-11 Potable	Drinking Water	09/27/16 16:15	09/29/16 10:00

Case Narrative

Client: AECOM
Project/Site: 32785. Hampstead.EL

TestAmerica Job ID: 490-112878-1
SDG: 125 Hanover Pike, Hampstead, MD

Job ID: 490-112878-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-112878-1

Comments
No additional comments.

Receipt
The sample was received on 9/29/2016 10:00 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.7º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: AECOM
Project/Site: 32785. Hampstead.EL

TestAmerica Job ID: 490-112878-1
SDG: 125 Hanover Pike, Hampstead, MD

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: AECOM
Project/Site: 32785. Hampstead.EL

TestAmerica Job ID: 490-112878-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: 7-11 Potable

Date Collected: 09/27/16 16:15
Date Received: 09/29/16 10:00

Lab Sample ID: 490-112878-1

Matrix: Drinking Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L			10/05/16 14:27	1
Bromobenzene	ND		0.500		ug/L			10/05/16 14:27	1
Bromochloromethane	ND		0.500		ug/L			10/05/16 14:27	1
Bromodichloromethane	ND		0.500		ug/L			10/05/16 14:27	1
Bromoform	ND		0.500		ug/L			10/05/16 14:27	1
Bromomethane	ND		0.500		ug/L			10/05/16 14:27	1
Carbon tetrachloride	ND		0.500		ug/L			10/05/16 14:27	1
Chlorobenzene	ND		0.500		ug/L			10/05/16 14:27	1
Chloroethane	ND		0.500		ug/L			10/05/16 14:27	1
Chloroform	ND		0.500		ug/L			10/05/16 14:27	1
Chloromethane	ND		0.500		ug/L			10/05/16 14:27	1
2-Chlorotoluene	ND		0.500		ug/L			10/05/16 14:27	1
4-Chlorotoluene	ND		0.500		ug/L			10/05/16 14:27	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			10/05/16 14:27	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			10/05/16 14:27	1
Dibromochloromethane	ND		0.500		ug/L			10/05/16 14:27	1
1,2-Dibromo-3-Chloropropane	ND		2.00		ug/L			10/05/16 14:27	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			10/05/16 14:27	1
Dibromomethane	ND		0.500		ug/L			10/05/16 14:27	1
1,2-Dichlorobenzene	ND		0.500		ug/L			10/05/16 14:27	1
1,3-Dichlorobenzene	ND		0.500		ug/L			10/05/16 14:27	1
1,4-Dichlorobenzene	ND		0.500		ug/L			10/05/16 14:27	1
Dichlorodifluoromethane	ND		0.500		ug/L			10/05/16 14:27	1
1,1-Dichloroethane	ND		0.500		ug/L			10/05/16 14:27	1
1,2-Dichloroethane	ND		0.500		ug/L			10/05/16 14:27	1
1,1-Dichloroethene	ND		0.500		ug/L			10/05/16 14:27	1
1,2-Dichloropropane	ND		0.500		ug/L			10/05/16 14:27	1
1,3-Dichloropropane	ND		0.500		ug/L			10/05/16 14:27	1
2,2-Dichloropropane	ND		0.500		ug/L			10/05/16 14:27	1
1,1-Dichloropropene	ND		0.500		ug/L			10/05/16 14:27	1
Diisopropyl ether	ND		0.500		ug/L			10/05/16 14:27	1
Ethylbenzene	ND		0.500		ug/L			10/05/16 14:27	1
Isopropylbenzene	ND		0.500		ug/L			10/05/16 14:27	1
Methylene Chloride	ND		5.00		ug/L			10/05/16 14:27	1
Methyl tert-butyl ether	ND		0.500		ug/L			10/05/16 14:27	1
Naphthalene	ND		5.00		ug/L			10/05/16 14:27	1
n-Butylbenzene	ND		0.500		ug/L			10/05/16 14:27	1
N-Propylbenzene	ND		0.500		ug/L			10/05/16 14:27	1
p-Isopropyltoluene	ND		0.500		ug/L			10/05/16 14:27	1
sec-Butylbenzene	ND		0.500		ug/L			10/05/16 14:27	1
Styrene	ND		0.500		ug/L			10/05/16 14:27	1
Tert-amyl methyl ether	ND		0.500		ug/L			10/05/16 14:27	1
tert-Butyl alcohol	ND		10.0		ug/L			10/05/16 14:27	1
tert-Butylbenzene	ND		0.500		ug/L			10/05/16 14:27	1
Tert-butyl ethyl ether	ND		0.500		ug/L			10/05/16 14:27	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			10/05/16 14:27	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			10/05/16 14:27	1
Tetrachloroethylene	ND		0.500		ug/L			10/05/16 14:27	1
Toluene	ND		0.500		ug/L			10/05/16 14:27	1

Client Sample Results

Client: AECOM
Project/Site: 32785. Hampstead.EL

TestAmerica Job ID: 490-112878-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: 7-11 Potable

Date Collected: 09/27/16 16:15
Date Received: 09/29/16 10:00

Lab Sample ID: 490-112878-1

Matrix: Drinking Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		0.500		ug/L			10/05/16 14:27	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			10/05/16 14:27	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			10/05/16 14:27	1
1,1,1-Trichloroethane	ND		0.500		ug/L			10/05/16 14:27	1
1,1,2-Trichloroethane	ND		0.500		ug/L			10/05/16 14:27	1
Trichloroethene	ND		0.500		ug/L			10/05/16 14:27	1
1,2,3-Trichloropropane	ND		0.500		ug/L			10/05/16 14:27	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			10/05/16 14:27	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			10/05/16 14:27	1
Vinyl chloride	ND		0.500		ug/L			10/05/16 14:27	1
m,p-Xylene	ND		0.500		ug/L			10/05/16 14:27	1
o-Xylene	ND		0.500		ug/L			10/05/16 14:27	1
Xylenes, Total	ND		1.00		ug/L			10/05/16 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*10/05/16 14:27*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/05/16 14:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*		*10/05/16 14:27*	*1*
Toluene-d8 (Surr)	*79*		*70 - 130*		*10/05/16 14:27*	*1*

QC Sample Results

Client: AECOM
Project/Site: 32785. Hampstead.EL

TestAmerica Job ID: 490-112878-1
SDG: 125 Hanover Pike, Hampstead, MD

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-375592/8
Matrix: Water
Analysis Batch: 375592

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L			10/05/16 14:00	1
Bromobenzene	ND		0.500		ug/L			10/05/16 14:00	1
Bromochloromethane	ND		0.500		ug/L			10/05/16 14:00	1
Bromodichloromethane	ND		0.500		ug/L			10/05/16 14:00	1
Bromoform	ND		0.500		ug/L			10/05/16 14:00	1
Bromomethane	ND		0.500		ug/L			10/05/16 14:00	1
Carbon tetrachloride	ND		0.500		ug/L			10/05/16 14:00	1
Chlorobenzene	ND		0.500		ug/L			10/05/16 14:00	1
Chloroethane	ND		0.500		ug/L			10/05/16 14:00	1
Chloroform	ND		0.500		ug/L			10/05/16 14:00	1
Chloromethane	ND		0.500		ug/L			10/05/16 14:00	1
2-Chlorotoluene	ND		0.500		ug/L			10/05/16 14:00	1
4-Chlorotoluene	ND		0.500		ug/L			10/05/16 14:00	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			10/05/16 14:00	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			10/05/16 14:00	1
Dibromochloromethane	ND		0.500		ug/L			10/05/16 14:00	1
1,2-Dibromo-3-Chloropropane	ND		2.00		ug/L			10/05/16 14:00	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			10/05/16 14:00	1
Dibromomethane	ND		0.500		ug/L			10/05/16 14:00	1
1,2-Dichlorobenzene	ND		0.500		ug/L			10/05/16 14:00	1
1,3-Dichlorobenzene	ND		0.500		ug/L			10/05/16 14:00	1
1,4-Dichlorobenzene	ND		0.500		ug/L			10/05/16 14:00	1
Dichlorodifluoromethane	ND		0.500		ug/L			10/05/16 14:00	1
1,1-Dichloroethane	ND		0.500		ug/L			10/05/16 14:00	1
1,2-Dichloroethane	ND		0.500		ug/L			10/05/16 14:00	1
1,1-Dichloroethene	ND		0.500		ug/L			10/05/16 14:00	1
1,2-Dichloropropane	ND		0.500		ug/L			10/05/16 14:00	1
1,3-Dichloropropane	ND		0.500		ug/L			10/05/16 14:00	1
2,2-Dichloropropane	ND		0.500		ug/L			10/05/16 14:00	1
1,1-Dichloropropene	ND		0.500		ug/L			10/05/16 14:00	1
Diisopropyl ether	ND		0.500		ug/L			10/05/16 14:00	1
Ethylbenzene	ND		0.500		ug/L			10/05/16 14:00	1
Isopropylbenzene	ND		0.500		ug/L			10/05/16 14:00	1
Methylene Chloride	ND		5.00		ug/L			10/05/16 14:00	1
Methyl tert-butyl ether	ND		0.500		ug/L			10/05/16 14:00	1
Naphthalene	ND		5.00		ug/L			10/05/16 14:00	1
n-Butylbenzene	ND		0.500		ug/L			10/05/16 14:00	1
N-Propylbenzene	ND		0.500		ug/L			10/05/16 14:00	1
p-Isopropyltoluene	ND		0.500		ug/L			10/05/16 14:00	1
sec-Butylbenzene	ND		0.500		ug/L			10/05/16 14:00	1
Styrene	ND		0.500		ug/L			10/05/16 14:00	1
Tert-amyl methyl ether	ND		0.500		ug/L			10/05/16 14:00	1
tert-Butyl alcohol	ND		10.0		ug/L			10/05/16 14:00	1
tert-Butylbenzene	ND		0.500		ug/L			10/05/16 14:00	1
Tert-butyl ethyl ether	ND		0.500		ug/L			10/05/16 14:00	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			10/05/16 14:00	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			10/05/16 14:00	1
Tetrachloroethylene	ND		0.500		ug/L			10/05/16 14:00	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-375592/8
Matrix: Water
Analysis Batch: 375592

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.500		ug/L			10/05/16 14:00	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			10/05/16 14:00	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			10/05/16 14:00	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			10/05/16 14:00	1
1,1,1-Trichloroethane	ND		0.500		ug/L			10/05/16 14:00	1
1,1,2-Trichloroethane	ND		0.500		ug/L			10/05/16 14:00	1
Trichloroethene	ND		0.500		ug/L			10/05/16 14:00	1
1,2,3-Trichloropropane	ND		0.500		ug/L			10/05/16 14:00	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			10/05/16 14:00	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			10/05/16 14:00	1
Vinyl chloride	ND		0.500		ug/L			10/05/16 14:00	1
m,p-Xylene	ND		0.500		ug/L			10/05/16 14:00	1
o-Xylene	ND		0.500		ug/L			10/05/16 14:00	1
Xylenes, Total	ND		1.00		ug/L			10/05/16 14:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*10/05/16 14:00*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*10/05/16 14:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*		*10/05/16 14:00*	*1*
Toluene-d8 (Surr)	*79*		*70 - 130*		*10/05/16 14:00*	*1*

Lab Sample ID: LCS 490-375592/3
Matrix: Water
Analysis Batch: 375592

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	5.00	5.346		ug/L		107	70 - 130
Bromobenzene	5.00	4.660		ug/L		93	70 - 130
Bromochloromethane	5.00	4.916		ug/L		98	70 - 130
Bromodichloromethane	5.00	4.782		ug/L		96	70 - 130
Bromoform	5.00	4.421		ug/L		88	70 - 130
Bromomethane	5.00	3.927		ug/L		79	70 - 130
Carbon tetrachloride	5.00	4.576		ug/L		92	70 - 130
Chlorobenzene	5.00	4.617		ug/L		92	70 - 130
Chloroethane	5.00	6.156		ug/L		123	70 - 130
Chloroform	5.00	4.870		ug/L		97	70 - 130
Chloromethane	5.00	5.938		ug/L		119	70 - 130
2-Chlorotoluene	5.00	5.485		ug/L		110	70 - 130
4-Chlorotoluene	5.00	4.842		ug/L		97	70 - 130
cis-1,2-Dichloroethene	5.00	5.486		ug/L		110	70 - 130
cis-1,3-Dichloropropene	5.00	4.093		ug/L		82	70 - 130
Dibromochloromethane	5.00	4.550		ug/L		91	70 - 130
1,2-Dibromo-3-Chloropropane	5.00	4.593		ug/L		92	70 - 130
1,2-Dibromoethane (EDB)	5.00	4.420		ug/L		88	70 - 130
Dibromomethane	5.00	4.785		ug/L		96	70 - 130
1,2-Dichlorobenzene	5.00	4.468		ug/L		89	70 - 130
1,3-Dichlorobenzene	5.00	4.502		ug/L		90	70 - 130
1,4-Dichlorobenzene	5.00	4.476		ug/L		90	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-375592/3
Matrix: Water
Analysis Batch: 375592

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	5.00	5.080		ug/L		102	70 - 130
1,1-Dichloroethane	5.00	5.550		ug/L		111	70 - 130
1,2-Dichloroethane	5.00	4.415		ug/L		88	70 - 130
1,1-Dichloroethene	5.00	5.268		ug/L		105	70 - 130
1,2-Dichloropropane	5.00	5.588		ug/L		112	70 - 130
1,3-Dichloropropane	5.00	3.987		ug/L		80	70 - 130
2,2-Dichloropropane	5.00	4.917		ug/L		98	70 - 130
1,1-Dichloropropene	5.00	5.050		ug/L		101	70 - 130
Diisopropyl ether	5.00	5.459		ug/L		109	70 - 130
Ethylbenzene	5.00	4.807		ug/L		96	70 - 130
Isopropylbenzene	5.00	4.706		ug/L		94	70 - 130
Methylene Chloride	5.00	5.587		ug/L		112	70 - 130
Methyl tert-butyl ether	5.00	4.798		ug/L		96	70 - 130
Naphthalene	5.00	4.263	J	ug/L		85	70 - 130
n-Butylbenzene	5.00	4.613		ug/L		92	70 - 130
N-Propylbenzene	5.00	5.139		ug/L		103	70 - 130
p-Isopropyltoluene	5.00	4.650		ug/L		93	70 - 130
sec-Butylbenzene	5.00	4.667		ug/L		93	70 - 130
Styrene	5.00	4.981		ug/L		100	70 - 130
Tert-amyl methyl ether	5.00	4.893		ug/L		98	70 - 130
tert-Butyl alcohol	50.0	47.33		ug/L		95	70 - 130
tert-Butylbenzene	5.00	4.771		ug/L		95	70 - 130
Tert-butyl ethyl ether	5.00	5.099		ug/L		102	70 - 130
1,1,1,2-Tetrachloroethane	5.00	4.350		ug/L		87	70 - 130
1,1,2,2-Tetrachloroethane	5.00	4.984		ug/L		100	70 - 130
Tetrachloroethylene	5.00	3.705		ug/L		74	70 - 130
Toluene	5.00	4.182		ug/L		84	70 - 130
trans-1,2-Dichloroethene	5.00	5.318		ug/L		106	70 - 130
1,2,3-Trichlorobenzene	5.00	4.221		ug/L		84	70 - 130
1,2,4-Trichlorobenzene	5.00	3.778		ug/L		76	70 - 130
1,1,1-Trichloroethane	5.00	4.751		ug/L		95	70 - 130
1,1,2-Trichloroethane	5.00	3.909		ug/L		78	70 - 130
Trichloroethene	5.00	4.947		ug/L		99	70 - 130
1,2,3-Trichloropropane	5.00	4.690		ug/L		94	70 - 130
1,2,4-Trimethylbenzene	5.00	4.876		ug/L		98	70 - 130
1,3,5-Trimethylbenzene	5.00	4.819		ug/L		96	70 - 130
Vinyl chloride	5.00	5.902		ug/L		118	70 - 130
m,p-Xylene	5.00	4.995		ug/L		100	70 - 130
o-Xylene	5.00	4.718		ug/L		94	70 - 130
Xylenes, Total	10.0	9.713		ug/L		97	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*
Toluene-d8 (Surr)	*82*		*70 - 130*

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-375592/4
Matrix: Water
Analysis Batch: 375592

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	5.00	5.318		ug/L		106	70 - 130	1	20
Bromobenzene	5.00	4.587		ug/L		92	70 - 130	2	20
Bromochloromethane	5.00	4.782		ug/L		96	70 - 130	3	20
Bromodichloromethane	5.00	4.616		ug/L		92	70 - 130	4	20
Bromoform	5.00	4.751		ug/L		95	70 - 130	7	20
Bromomethane	5.00	3.893		ug/L		78	70 - 130	1	20
Carbon tetrachloride	5.00	4.483		ug/L		90	70 - 130	2	20
Chlorobenzene	5.00	4.706		ug/L		94	70 - 130	2	20
Chloroethane	5.00	5.761		ug/L		115	70 - 130	7	20
Chloroform	5.00	4.790		ug/L		96	70 - 130	2	20
Chloromethane	5.00	5.883		ug/L		118	70 - 130	1	20
2-Chlorotoluene	5.00	5.471		ug/L		109	70 - 130	0	20
4-Chlorotoluene	5.00	4.659		ug/L		93	70 - 130	4	20
cis-1,2-Dichloroethene	5.00	5.260		ug/L		105	70 - 130	4	20
cis-1,3-Dichloropropene	5.00	4.042		ug/L		81	70 - 130	1	20
Dibromochloromethane	5.00	4.596		ug/L		92	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	5.00	4.799		ug/L		96	70 - 130	4	20
1,2-Dibromoethane (EDB)	5.00	4.633		ug/L		93	70 - 130	5	20
Dibromomethane	5.00	4.862		ug/L		97	70 - 130	2	20
1,2-Dichlorobenzene	5.00	4.416		ug/L		88	70 - 130	1	20
1,3-Dichlorobenzene	5.00	4.492		ug/L		90	70 - 130	0	20
1,4-Dichlorobenzene	5.00	4.613		ug/L		92	70 - 130	3	20
Dichlorodifluoromethane	5.00	5.058		ug/L		101	70 - 130	0	20
1,1-Dichloroethane	5.00	5.251		ug/L		105	70 - 130	6	20
1,2-Dichloroethane	5.00	4.637		ug/L		93	70 - 130	5	20
1,1-Dichloroethene	5.00	5.348		ug/L		107	70 - 130	1	20
1,2-Dichloropropane	5.00	5.288		ug/L		106	70 - 130	6	20
1,3-Dichloropropane	5.00	4.134		ug/L		83	70 - 130	4	20
2,2-Dichloropropane	5.00	4.770		ug/L		95	70 - 130	3	20
1,1-Dichloropropene	5.00	4.875		ug/L		97	70 - 130	4	20
Diisopropyl ether	5.00	5.524		ug/L		110	70 - 130	1	20
Ethylbenzene	5.00	4.808		ug/L		96	70 - 130	0	20
Isopropylbenzene	5.00	4.786		ug/L		96	70 - 130	2	20
Methylene Chloride	5.00	5.514		ug/L		110	70 - 130	1	20
Methyl tert-butyl ether	5.00	4.713		ug/L		94	70 - 130	2	20
Naphthalene	5.00	3.971	J	ug/L		79	70 - 130	7	20
n-Butylbenzene	5.00	4.775		ug/L		95	70 - 130	3	20
N-Propylbenzene	5.00	5.090		ug/L		102	70 - 130	1	20
p-Isopropyltoluene	5.00	4.674		ug/L		93	70 - 130	1	20
sec-Butylbenzene	5.00	4.840		ug/L		97	70 - 130	4	20
Styrene	5.00	4.840		ug/L		97	70 - 130	3	20
Tert-amyl methyl ether	5.00	4.855		ug/L		97	70 - 130	1	20
tert-Butyl alcohol	50.0	48.42		ug/L		97	70 - 130	2	20
tert-Butylbenzene	5.00	4.711		ug/L		94	70 - 130	1	20
Tert-butyl ethyl ether	5.00	5.102		ug/L		102	70 - 130	0	20
1,1,1,2-Tetrachloroethane	5.00	4.435		ug/L		89	70 - 130	2	20
1,1,2,2-Tetrachloroethane	5.00	5.016		ug/L		100	70 - 130	1	20
Tetrachloroethylene	5.00	3.829		ug/L		77	70 - 130	3	20

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-375592/4
Matrix: Water
Analysis Batch: 375592

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene			5.00	4.183		ug/L		84	70 - 130	0	20
trans-1,2-Dichloroethene			5.00	5.308		ug/L		106	70 - 130	0	20
1,2,3-Trichlorobenzene			5.00	4.209		ug/L		84	70 - 130	0	20
1,2,4-Trichlorobenzene			5.00	4.062		ug/L		81	70 - 130	7	20
1,1,1-Trichloroethane			5.00	4.695		ug/L		94	70 - 130	1	20
1,1,2-Trichloroethane			5.00	4.145		ug/L		83	70 - 130	6	20
Trichloroethene			5.00	4.747		ug/L		95	70 - 130	4	20
1,2,3-Trichloropropane			5.00	4.723		ug/L		94	70 - 130	1	20
1,2,4-Trimethylbenzene			5.00	4.911		ug/L		98	70 - 130	1	20
1,3,5-Trimethylbenzene			5.00	4.822		ug/L		96	70 - 130	0	20
Vinyl chloride			5.00	5.928		ug/L		119	70 - 130	0	20
m,p-Xylene			5.00	4.884		ug/L		98	70 - 130	2	20
o-Xylene			5.00	4.634		ug/L		93	70 - 130	2	20
Xylenes, Total			10.0	9.517		ug/L		95	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
Dibromofluoromethane (Surr)	*94*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*
Toluene-d8 (Surr)	*82*		*70 - 130*

QC Association Summary

Client: AECOM
Project/Site: 32785. Hampstead.EL

TestAmerica Job ID: 490-112878-1
SDG: 125 Hanover Pike, Hampstead, MD

GC/MS VOA

Analysis Batch: 375592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-112878-1	7-11 Potable	Total/NA	Drinking Water	524.2	
MB 490-375592/8	Method Blank	Total/NA	Water	524.2	
LCS 490-375592/3	Lab Control Sample	Total/NA	Water	524.2	
LCSD 490-375592/4	Lab Control Sample Dup	Total/NA	Water	524.2	

Lab Chronicle

Client: AECOM
Project/Site: 32785. Hampstead.EL

TestAmerica Job ID: 490-112878-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: 7-11 Potable

Date Collected: 09/27/16 16:15
Date Received: 09/29/16 10:00

Lab Sample ID: 490-112878-1

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	10 mL	10 mL	375592	10/05/16 14:27	EML	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: AECOM
Project/Site: 32785. Hampstead.EL

TestAmerica Job ID: 490-112878-1
SDG: 125 Hanover Pike, Hampstead, MD

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	TAL NSH

Protocol References:

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: AECOM
Project/Site: 32785. Hampstead.EL

TestAmerica Job ID: 490-112878-1
SDG: 125 Hanover Pike, Hampstead, MD

Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Maryland	State Program	3	316	03-31-17

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

490-112878 Chain of Custody

COOLER RECEIPT FORM

Cooler Received/Opened On 9/29/2016 @1000

Time Samples Removed From Cooler 1745 Time Samples Placed In Storage 1856 (2 Hour Window)

1. Tracking # 5411 (last 4 digits, FedEx) Courier: __

   IR Gun ID 17610176_ pH Strip Lot HC581117 Chlorine Strip Lot 041416F

2. Temperature of rep. sample or temp blank when opened: 0.7 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

   If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) D

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

   Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

   b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) PM

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA

   b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) PM

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) PM

I certify that I attached a label with the unique LIMS number to each container (intial) PM

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 12/15/15

10/6/2016

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

180325

BALTIMORE

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: M. Parsons	Lab PM: Salomon, Sherry	Carrier Tracking No(s):	COC No: 490-45557-12528.1
Client Contact: Mr. John Canzeri	Phone: 443-286-2673	E-Mail: sherry.salomon@testamericainc.com		Page: Page 1 of 1
Company: AECOM				Job #: 60335398
Address: 8000 Virginia Manor Road Suite 110	Due Date Requested:			
City: Beltsville	TAT Requested (days): STD			
State, Zip: MD, 20705				
Phone: 301-289-3805(Tel) 301-289-3901(Fax)	PO #: Purchase Order Requested			
Email: John.Canzeri@aecom.com	WO #: PENDING			
Project Name: 32785.Hampstead.EL	Project #: 49008398 (ENFOS)			
Site: 125 Hanover Pike, Hampstead, MD	ENFOS PROJECT#: 102537-FPPS			

Analysis Requested

Loc: 490 112878

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	624.2 - Revision 3 Standard List + Oxygenates	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
7-11 Potable	9/27/16	1615	G	W	N	N	✓	3	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: 7-Eleven

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by: Parsons	Date/Time:	Company: AECOM	Received by:	Date/Time: 9/28/16 1155	Company: TA	
Relinquished by:	Date/Time: 9-28-2016/1548	Company: TestAmerica	Received by: O.T.	Date/Time: 9/29/16 1000	Company: TAN	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: AECOM

Job Number: 490-112878-1
SDG Number: 125 Hanover Pike, Hampstead, MD

Login Number: 112878
List Number: 1
Creator: Ngo, Phiet

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ATTACHMENT D

Residential Treatment Potable Well Laboratory Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-107727-1
TestAmerica SDG: 125 Hanover Pike, Hampstead, MD
Client Project/Site: 32785.Hampstead.EL (MD)

For:
AECOM
8000 Virginia Manor Road
Suite 110
Beltsville, Maryland 20705

Attn: Mr. John Canzeri

Sherry M Salomon

Authorized for release by:
7/19/2016 5:40:02 PM

Sherry Salomon, Manager of Project Management Assistants
(615)301-5033
sherry.salomon@testamericainc.com

LINKS

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Have a Question? Ask The Expert

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107727-1
SDG: 125 Hanover Pike, Hampstead, MD

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-107727-1	124 Hanover INF	Water	07/13/16 12:24	07/15/16 10:05
490-107727-2	124 Hanover GAC-1	Water	07/13/16 12:21	07/15/16 10:05
490-107727-3	124 Hanover GAC-2	Water	07/13/16 12:18	07/15/16 10:05
490-107727-4	124 Hanover Final GAC	Water	07/13/16 12:15	07/15/16 10:05

Case Narrative

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107727-1
SDG: 125 Hanover Pike, Hampstead, MD

Job ID: 490-107727-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-107727-1

Comments
No additional comments.

Receipt
The samples were received on 7/15/2016 at 10:05 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.9º C.

Receipt Exceptions
The sample collection times are not written on the labels for the following samples: 124 Hanover INF (490-107727-1), 124 Hanover GAC-1 (490-107727-2), 124 Hanover GAC-2 (490-107727-3) and 124 Hanover Final GAC (490-107727-4). The sample collection times were logged per the COC.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107727-1
SDG: 125 Hanover Pike, Hampstead, MD

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107727-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: 124 Hanover INF

Date Collected: 07/13/16 12:24
Date Received: 07/15/16 10:05

Lab Sample ID: 490-107727-1

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L			07/16/16 13:27	1
Bromobenzene	ND		0.500		ug/L			07/16/16 13:27	1
Bromochloromethane	ND		0.500		ug/L			07/16/16 13:27	1
Bromodichloromethane	ND		0.500		ug/L			07/16/16 13:27	1
Bromoform	ND		0.500		ug/L			07/16/16 13:27	1
Bromomethane	ND		0.500		ug/L			07/16/16 13:27	1
Carbon tetrachloride	ND		0.500		ug/L			07/16/16 13:27	1
Chlorobenzene	ND		0.500		ug/L			07/16/16 13:27	1
Chloroethane	ND		0.500		ug/L			07/16/16 13:27	1
Chloroform	ND		0.500		ug/L			07/16/16 13:27	1
Chloromethane	ND		0.500		ug/L			07/16/16 13:27	1
2-Chlorotoluene	ND		0.500		ug/L			07/16/16 13:27	1
4-Chlorotoluene	ND		0.500		ug/L			07/16/16 13:27	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			07/16/16 13:27	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			07/16/16 13:27	1
Dibromochloromethane	ND		0.500		ug/L			07/16/16 13:27	1
1,2-Dibromo-3-Chloropropane	ND		2.00		ug/L			07/16/16 13:27	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			07/16/16 13:27	1
Dibromomethane	ND		0.500		ug/L			07/16/16 13:27	1
1,2-Dichlorobenzene	ND		0.500		ug/L			07/16/16 13:27	1
1,3-Dichlorobenzene	ND		0.500		ug/L			07/16/16 13:27	1
1,4-Dichlorobenzene	ND		0.500		ug/L			07/16/16 13:27	1
Dichlorodifluoromethane	ND		0.500		ug/L			07/16/16 13:27	1
1,1-Dichloroethane	ND		0.500		ug/L			07/16/16 13:27	1
1,2-Dichloroethane	ND		0.500		ug/L			07/16/16 13:27	1
1,1-Dichloroethene	ND		0.500		ug/L			07/16/16 13:27	1
1,2-Dichloropropane	ND		0.500		ug/L			07/16/16 13:27	1
1,3-Dichloropropane	ND		0.500		ug/L			07/16/16 13:27	1
2,2-Dichloropropane	ND		0.500		ug/L			07/16/16 13:27	1
1,1-Dichloropropene	ND		0.500		ug/L			07/16/16 13:27	1
Diisopropyl ether	ND		0.500		ug/L			07/16/16 13:27	1
Ethylbenzene	ND		0.500		ug/L			07/16/16 13:27	1
Isopropylbenzene	ND		0.500		ug/L			07/16/16 13:27	1
Methylene Chloride	ND		5.00		ug/L			07/16/16 13:27	1
Methyl tert-butyl ether	ND		0.500		ug/L			07/16/16 13:27	1
Naphthalene	ND		5.00		ug/L			07/16/16 13:27	1
n-Butylbenzene	ND		0.500		ug/L			07/16/16 13:27	1
N-Propylbenzene	ND		0.500		ug/L			07/16/16 13:27	1
p-Isopropyltoluene	ND		0.500		ug/L			07/16/16 13:27	1
sec-Butylbenzene	ND		0.500		ug/L			07/16/16 13:27	1
Styrene	ND		0.500		ug/L			07/16/16 13:27	1
Tert-amyl methyl ether	ND		0.500		ug/L			07/16/16 13:27	1
tert-Butyl alcohol	ND		10.0		ug/L			07/16/16 13:27	1
tert-Butylbenzene	ND		0.500		ug/L			07/16/16 13:27	1
Tert-butyl ethyl ether	ND		0.500		ug/L			07/16/16 13:27	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			07/16/16 13:27	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			07/16/16 13:27	1
Tetrachloroethylene	ND		0.500		ug/L			07/16/16 13:27	1
Toluene	ND		0.500		ug/L			07/16/16 13:27	1

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107727-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: 124 Hanover INF

Date Collected: 07/13/16 12:24
Date Received: 07/15/16 10:05

Lab Sample ID: 490-107727-1

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		0.500		ug/L			07/16/16 13:27	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			07/16/16 13:27	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			07/16/16 13:27	1
1,1,1-Trichloroethane	ND		0.500		ug/L			07/16/16 13:27	1
1,1,2-Trichloroethane	ND		0.500		ug/L			07/16/16 13:27	1
Trichloroethene	ND		0.500		ug/L			07/16/16 13:27	1
1,2,3-Trichloropropane	ND		0.500		ug/L			07/16/16 13:27	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			07/16/16 13:27	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			07/16/16 13:27	1
Vinyl chloride	ND		0.500		ug/L			07/16/16 13:27	1
m,p-Xylene	ND		0.500		ug/L			07/16/16 13:27	1
o-Xylene	ND		0.500		ug/L			07/16/16 13:27	1
Xylenes, Total	ND		1.00		ug/L			07/16/16 13:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*07/16/16 13:27*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*07/16/16 13:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*07/16/16 13:27*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*07/16/16 13:27*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107727-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: 124 Hanover GAC-1

Lab Sample ID: 490-107727-2

Date Collected: 07/13/16 12:21
Matrix: Water
Date Received: 07/15/16 10:05

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L			07/16/16 12:59	1
Bromobenzene	ND		0.500		ug/L			07/16/16 12:59	1
Bromochloromethane	ND		0.500		ug/L			07/16/16 12:59	1
Bromodichloromethane	ND		0.500		ug/L			07/16/16 12:59	1
Bromoform	ND		0.500		ug/L			07/16/16 12:59	1
Bromomethane	ND		0.500		ug/L			07/16/16 12:59	1
Carbon tetrachloride	ND		0.500		ug/L			07/16/16 12:59	1
Chlorobenzene	ND		0.500		ug/L			07/16/16 12:59	1
Chloroethane	ND		0.500		ug/L			07/16/16 12:59	1
Chloroform	ND		0.500		ug/L			07/16/16 12:59	1
Chloromethane	ND		0.500		ug/L			07/16/16 12:59	1
2-Chlorotoluene	ND		0.500		ug/L			07/16/16 12:59	1
4-Chlorotoluene	ND		0.500		ug/L			07/16/16 12:59	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			07/16/16 12:59	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			07/16/16 12:59	1
Dibromochloromethane	ND		0.500		ug/L			07/16/16 12:59	1
1,2-Dibromo-3-Chloropropane	ND		2.00		ug/L			07/16/16 12:59	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			07/16/16 12:59	1
Dibromomethane	ND		0.500		ug/L			07/16/16 12:59	1
1,2-Dichlorobenzene	ND		0.500		ug/L			07/16/16 12:59	1
1,3-Dichlorobenzene	ND		0.500		ug/L			07/16/16 12:59	1
1,4-Dichlorobenzene	ND		0.500		ug/L			07/16/16 12:59	1
Dichlorodifluoromethane	ND		0.500		ug/L			07/16/16 12:59	1
1,1-Dichloroethane	ND		0.500		ug/L			07/16/16 12:59	1
1,2-Dichloroethane	ND		0.500		ug/L			07/16/16 12:59	1
1,1-Dichloroethene	ND		0.500		ug/L			07/16/16 12:59	1
1,2-Dichloropropane	ND		0.500		ug/L			07/16/16 12:59	1
1,3-Dichloropropane	ND		0.500		ug/L			07/16/16 12:59	1
2,2-Dichloropropane	ND		0.500		ug/L			07/16/16 12:59	1
1,1-Dichloropropene	ND		0.500		ug/L			07/16/16 12:59	1
Diisopropyl ether	ND		0.500		ug/L			07/16/16 12:59	1
Ethylbenzene	ND		0.500		ug/L			07/16/16 12:59	1
Isopropylbenzene	ND		0.500		ug/L			07/16/16 12:59	1
Methylene Chloride	ND		5.00		ug/L			07/16/16 12:59	1
Methyl tert-butyl ether	**0.547**		0.500		ug/L			07/16/16 12:59	1
Naphthalene	ND		5.00		ug/L			07/16/16 12:59	1
n-Butylbenzene	ND		0.500		ug/L			07/16/16 12:59	1
N-Propylbenzene	ND		0.500		ug/L			07/16/16 12:59	1
p-Isopropyltoluene	ND		0.500		ug/L			07/16/16 12:59	1
sec-Butylbenzene	ND		0.500		ug/L			07/16/16 12:59	1
Styrene	ND		0.500		ug/L			07/16/16 12:59	1
Tert-amyl methyl ether	ND		0.500		ug/L			07/16/16 12:59	1
tert-Butyl alcohol	ND		10.0		ug/L			07/16/16 12:59	1
tert-Butylbenzene	ND		0.500		ug/L			07/16/16 12:59	1
Tert-butyl ethyl ether	ND		0.500		ug/L			07/16/16 12:59	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			07/16/16 12:59	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			07/16/16 12:59	1
Tetrachloroethylene	ND		0.500		ug/L			07/16/16 12:59	1
Toluene	ND		0.500		ug/L			07/16/16 12:59	1

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107727-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: 124 Hanover GAC-1

Lab Sample ID: 490-107727-2

Date Collected: 07/13/16 12:21
Matrix: Water
Date Received: 07/15/16 10:05

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		0.500		ug/L			07/16/16 12:59	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			07/16/16 12:59	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			07/16/16 12:59	1
1,1,1-Trichloroethane	ND		0.500		ug/L			07/16/16 12:59	1
1,1,2-Trichloroethane	ND		0.500		ug/L			07/16/16 12:59	1
Trichloroethene	ND		0.500		ug/L			07/16/16 12:59	1
1,2,3-Trichloropropane	ND		0.500		ug/L			07/16/16 12:59	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			07/16/16 12:59	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			07/16/16 12:59	1
Vinyl chloride	ND		0.500		ug/L			07/16/16 12:59	1
m,p-Xylene	ND		0.500		ug/L			07/16/16 12:59	1
o-Xylene	ND		0.500		ug/L			07/16/16 12:59	1
Xylenes, Total	ND		1.00		ug/L			07/16/16 12:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*07/16/16 12:59*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*07/16/16 12:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*07/16/16 12:59*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*07/16/16 12:59*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107727-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: 124 Hanover GAC-2

Lab Sample ID: 490-107727-3

Date Collected: 07/13/16 12:18
Matrix: Water
Date Received: 07/15/16 10:05

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L			07/16/16 12:32	1
Bromobenzene	ND		0.500		ug/L			07/16/16 12:32	1
Bromochloromethane	ND		0.500		ug/L			07/16/16 12:32	1
Bromodichloromethane	ND		0.500		ug/L			07/16/16 12:32	1
Bromoform	ND		0.500		ug/L			07/16/16 12:32	1
Bromomethane	ND		0.500		ug/L			07/16/16 12:32	1
Carbon tetrachloride	ND		0.500		ug/L			07/16/16 12:32	1
Chlorobenzene	ND		0.500		ug/L			07/16/16 12:32	1
Chloroethane	ND		0.500		ug/L			07/16/16 12:32	1
Chloroform	ND		0.500		ug/L			07/16/16 12:32	1
Chloromethane	ND		0.500		ug/L			07/16/16 12:32	1
2-Chlorotoluene	ND		0.500		ug/L			07/16/16 12:32	1
4-Chlorotoluene	ND		0.500		ug/L			07/16/16 12:32	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			07/16/16 12:32	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			07/16/16 12:32	1
Dibromochloromethane	ND		0.500		ug/L			07/16/16 12:32	1
1,2-Dibromo-3-Chloropropane	ND		2.00		ug/L			07/16/16 12:32	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			07/16/16 12:32	1
Dibromomethane	ND		0.500		ug/L			07/16/16 12:32	1
1,2-Dichlorobenzene	ND		0.500		ug/L			07/16/16 12:32	1
1,3-Dichlorobenzene	ND		0.500		ug/L			07/16/16 12:32	1
1,4-Dichlorobenzene	ND		0.500		ug/L			07/16/16 12:32	1
Dichlorodifluoromethane	ND		0.500		ug/L			07/16/16 12:32	1
1,1-Dichloroethane	ND		0.500		ug/L			07/16/16 12:32	1
1,2-Dichloroethane	ND		0.500		ug/L			07/16/16 12:32	1
1,1-Dichloroethene	ND		0.500		ug/L			07/16/16 12:32	1
1,2-Dichloropropane	ND		0.500		ug/L			07/16/16 12:32	1
1,3-Dichloropropane	ND		0.500		ug/L			07/16/16 12:32	1
2,2-Dichloropropane	ND		0.500		ug/L			07/16/16 12:32	1
1,1-Dichloropropene	ND		0.500		ug/L			07/16/16 12:32	1
Diisopropyl ether	ND		0.500		ug/L			07/16/16 12:32	1
Ethylbenzene	ND		0.500		ug/L			07/16/16 12:32	1
Isopropylbenzene	ND		0.500		ug/L			07/16/16 12:32	1
Methylene Chloride	ND		5.00		ug/L			07/16/16 12:32	1
Methyl tert-butyl ether	ND		0.500		ug/L			07/16/16 12:32	1
Naphthalene	ND		5.00		ug/L			07/16/16 12:32	1
n-Butylbenzene	ND		0.500		ug/L			07/16/16 12:32	1
N-Propylbenzene	ND		0.500		ug/L			07/16/16 12:32	1
p-Isopropyltoluene	ND		0.500		ug/L			07/16/16 12:32	1
sec-Butylbenzene	ND		0.500		ug/L			07/16/16 12:32	1
Styrene	ND		0.500		ug/L			07/16/16 12:32	1
Tert-amyl methyl ether	ND		0.500		ug/L			07/16/16 12:32	1
tert-Butyl alcohol	ND		10.0		ug/L			07/16/16 12:32	1
tert-Butylbenzene	ND		0.500		ug/L			07/16/16 12:32	1
Tert-butyl ethyl ether	ND		0.500		ug/L			07/16/16 12:32	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			07/16/16 12:32	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			07/16/16 12:32	1
Tetrachloroethylene	ND		0.500		ug/L			07/16/16 12:32	1
Toluene	ND		0.500		ug/L			07/16/16 12:32	1

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107727-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: 124 Hanover GAC-2

Date Collected: 07/13/16 12:18
Date Received: 07/15/16 10:05

Lab Sample ID: 490-107727-3

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		0.500		ug/L			07/16/16 12:32	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			07/16/16 12:32	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			07/16/16 12:32	1
1,1,1-Trichloroethane	ND		0.500		ug/L			07/16/16 12:32	1
1,1,2-Trichloroethane	ND		0.500		ug/L			07/16/16 12:32	1
Trichloroethene	ND		0.500		ug/L			07/16/16 12:32	1
1,2,3-Trichloropropane	ND		0.500		ug/L			07/16/16 12:32	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			07/16/16 12:32	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			07/16/16 12:32	1
Vinyl chloride	ND		0.500		ug/L			07/16/16 12:32	1
m,p-Xylene	ND		0.500		ug/L			07/16/16 12:32	1
o-Xylene	ND		0.500		ug/L			07/16/16 12:32	1
Xylenes, Total	ND		1.00		ug/L			07/16/16 12:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*07/16/16 12:32*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*07/16/16 12:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*07/16/16 12:32*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*07/16/16 12:32*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107727-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: 124 Hanover Final GAC

Lab Sample ID: 490-107727-4

Date Collected: 07/13/16 12:15
Matrix: Water
Date Received: 07/15/16 10:05

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L			07/16/16 12:05	1
Bromobenzene	ND		0.500		ug/L			07/16/16 12:05	1
Bromochloromethane	ND		0.500		ug/L			07/16/16 12:05	1
Bromodichloromethane	ND		0.500		ug/L			07/16/16 12:05	1
Bromoform	ND		0.500		ug/L			07/16/16 12:05	1
Bromomethane	ND		0.500		ug/L			07/16/16 12:05	1
Carbon tetrachloride	ND		0.500		ug/L			07/16/16 12:05	1
Chlorobenzene	ND		0.500		ug/L			07/16/16 12:05	1
Chloroethane	ND		0.500		ug/L			07/16/16 12:05	1
Chloroform	ND		0.500		ug/L			07/16/16 12:05	1
Chloromethane	ND		0.500		ug/L			07/16/16 12:05	1
2-Chlorotoluene	ND		0.500		ug/L			07/16/16 12:05	1
4-Chlorotoluene	ND		0.500		ug/L			07/16/16 12:05	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			07/16/16 12:05	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			07/16/16 12:05	1
Dibromochloromethane	ND		0.500		ug/L			07/16/16 12:05	1
1,2-Dibromo-3-Chloropropane	ND		2.00		ug/L			07/16/16 12:05	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			07/16/16 12:05	1
Dibromomethane	ND		0.500		ug/L			07/16/16 12:05	1
1,2-Dichlorobenzene	ND		0.500		ug/L			07/16/16 12:05	1
1,3-Dichlorobenzene	ND		0.500		ug/L			07/16/16 12:05	1
1,4-Dichlorobenzene	ND		0.500		ug/L			07/16/16 12:05	1
Dichlorodifluoromethane	ND		0.500		ug/L			07/16/16 12:05	1
1,1-Dichloroethane	ND		0.500		ug/L			07/16/16 12:05	1
1,2-Dichloroethane	ND		0.500		ug/L			07/16/16 12:05	1
1,1-Dichloroethene	ND		0.500		ug/L			07/16/16 12:05	1
1,2-Dichloropropane	ND		0.500		ug/L			07/16/16 12:05	1
1,3-Dichloropropane	ND		0.500		ug/L			07/16/16 12:05	1
2,2-Dichloropropane	ND		0.500		ug/L			07/16/16 12:05	1
1,1-Dichloropropene	ND		0.500		ug/L			07/16/16 12:05	1
Diisopropyl ether	ND		0.500		ug/L			07/16/16 12:05	1
Ethylbenzene	ND		0.500		ug/L			07/16/16 12:05	1
Isopropylbenzene	ND		0.500		ug/L			07/16/16 12:05	1
Methylene Chloride	ND		5.00		ug/L			07/16/16 12:05	1
Methyl tert-butyl ether	ND		0.500		ug/L			07/16/16 12:05	1
Naphthalene	ND		5.00		ug/L			07/16/16 12:05	1
n-Butylbenzene	ND		0.500		ug/L			07/16/16 12:05	1
N-Propylbenzene	ND		0.500		ug/L			07/16/16 12:05	1
p-Isopropyltoluene	ND		0.500		ug/L			07/16/16 12:05	1
sec-Butylbenzene	ND		0.500		ug/L			07/16/16 12:05	1
Styrene	ND		0.500		ug/L			07/16/16 12:05	1
Tert-amyl methyl ether	ND		0.500		ug/L			07/16/16 12:05	1
tert-Butyl alcohol	ND		10.0		ug/L			07/16/16 12:05	1
tert-Butylbenzene	ND		0.500		ug/L			07/16/16 12:05	1
Tert-butyl ethyl ether	ND		0.500		ug/L			07/16/16 12:05	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			07/16/16 12:05	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			07/16/16 12:05	1
Tetrachloroethylene	ND		0.500		ug/L			07/16/16 12:05	1
Toluene	ND		0.500		ug/L			07/16/16 12:05	1

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107727-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: 124 Hanover Final GAC

Lab Sample ID: 490-107727-4

Date Collected: 07/13/16 12:15
Matrix: Water
Date Received: 07/15/16 10:05

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		0.500		ug/L			07/16/16 12:05	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			07/16/16 12:05	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			07/16/16 12:05	1
1,1,1-Trichloroethane	ND		0.500		ug/L			07/16/16 12:05	1
1,1,2-Trichloroethane	ND		0.500		ug/L			07/16/16 12:05	1
Trichloroethene	ND		0.500		ug/L			07/16/16 12:05	1
1,2,3-Trichloropropane	ND		0.500		ug/L			07/16/16 12:05	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			07/16/16 12:05	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			07/16/16 12:05	1
Vinyl chloride	ND		0.500		ug/L			07/16/16 12:05	1
m,p-Xylene	ND		0.500		ug/L			07/16/16 12:05	1
o-Xylene	ND		0.500		ug/L			07/16/16 12:05	1
Xylenes, Total	ND		1.00		ug/L			07/16/16 12:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*07/16/16 12:05*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*07/16/16 12:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*07/16/16 12:05*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*07/16/16 12:05*	*1*

QC Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107727-1
SDG: 125 Hanover Pike, Hampstead, MD

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-355673/6
Matrix: Water
Analysis Batch: 355673

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L			07/16/16 11:38	1
Bromobenzene	ND		0.500		ug/L			07/16/16 11:38	1
Bromochloromethane	ND		0.500		ug/L			07/16/16 11:38	1
Bromodichloromethane	ND		0.500		ug/L			07/16/16 11:38	1
Bromoform	ND		0.500		ug/L			07/16/16 11:38	1
Bromomethane	ND		0.500		ug/L			07/16/16 11:38	1
Carbon tetrachloride	ND		0.500		ug/L			07/16/16 11:38	1
Chlorobenzene	ND		0.500		ug/L			07/16/16 11:38	1
Chloroethane	ND		0.500		ug/L			07/16/16 11:38	1
Chloroform	ND		0.500		ug/L			07/16/16 11:38	1
Chloromethane	ND		0.500		ug/L			07/16/16 11:38	1
2-Chlorotoluene	ND		0.500		ug/L			07/16/16 11:38	1
4-Chlorotoluene	ND		0.500		ug/L			07/16/16 11:38	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			07/16/16 11:38	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			07/16/16 11:38	1
Dibromochloromethane	ND		0.500		ug/L			07/16/16 11:38	1
1,2-Dibromo-3-Chloropropane	ND		2.00		ug/L			07/16/16 11:38	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			07/16/16 11:38	1
Dibromomethane	ND		0.500		ug/L			07/16/16 11:38	1
1,2-Dichlorobenzene	ND		0.500		ug/L			07/16/16 11:38	1
1,3-Dichlorobenzene	ND		0.500		ug/L			07/16/16 11:38	1
1,4-Dichlorobenzene	ND		0.500		ug/L			07/16/16 11:38	1
Dichlorodifluoromethane	ND		0.500		ug/L			07/16/16 11:38	1
1,1-Dichloroethane	ND		0.500		ug/L			07/16/16 11:38	1
1,2-Dichloroethane	ND		0.500		ug/L			07/16/16 11:38	1
1,1-Dichloroethene	ND		0.500		ug/L			07/16/16 11:38	1
1,2-Dichloropropane	ND		0.500		ug/L			07/16/16 11:38	1
1,3-Dichloropropane	ND		0.500		ug/L			07/16/16 11:38	1
2,2-Dichloropropane	ND		0.500		ug/L			07/16/16 11:38	1
1,1-Dichloropropene	ND		0.500		ug/L			07/16/16 11:38	1
Diisopropyl ether	ND		0.500		ug/L			07/16/16 11:38	1
Ethylbenzene	ND		0.500		ug/L			07/16/16 11:38	1
Isopropylbenzene	ND		0.500		ug/L			07/16/16 11:38	1
Methylene Chloride	ND		5.00		ug/L			07/16/16 11:38	1
Methyl tert-butyl ether	ND		0.500		ug/L			07/16/16 11:38	1
Naphthalene	ND		5.00		ug/L			07/16/16 11:38	1
n-Butylbenzene	ND		0.500		ug/L			07/16/16 11:38	1
N-Propylbenzene	ND		0.500		ug/L			07/16/16 11:38	1
p-Isopropyltoluene	ND		0.500		ug/L			07/16/16 11:38	1
sec-Butylbenzene	ND		0.500		ug/L			07/16/16 11:38	1
Styrene	ND		0.500		ug/L			07/16/16 11:38	1
Tert-amyl methyl ether	ND		0.500		ug/L			07/16/16 11:38	1
tert-Butyl alcohol	ND		10.0		ug/L			07/16/16 11:38	1
tert-Butylbenzene	ND		0.500		ug/L			07/16/16 11:38	1
Tert-butyl ethyl ether	ND		0.500		ug/L			07/16/16 11:38	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			07/16/16 11:38	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			07/16/16 11:38	1
Tetrachloroethylene	ND		0.500		ug/L			07/16/16 11:38	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-355673/6
Matrix: Water
Analysis Batch: 355673

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.500		ug/L			07/16/16 11:38	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			07/16/16 11:38	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			07/16/16 11:38	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			07/16/16 11:38	1
1,1,1-Trichloroethane	ND		0.500		ug/L			07/16/16 11:38	1
1,1,2-Trichloroethane	ND		0.500		ug/L			07/16/16 11:38	1
Trichloroethene	ND		0.500		ug/L			07/16/16 11:38	1
1,2,3-Trichloropropane	ND		0.500		ug/L			07/16/16 11:38	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			07/16/16 11:38	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			07/16/16 11:38	1
Vinyl chloride	ND		0.500		ug/L			07/16/16 11:38	1
m,p-Xylene	ND		0.500		ug/L			07/16/16 11:38	1
o-Xylene	ND		0.500		ug/L			07/16/16 11:38	1
Xylenes, Total	ND		1.00		ug/L			07/16/16 11:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*07/16/16 11:38*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*07/16/16 11:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*07/16/16 11:38*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*07/16/16 11:38*	*1*

Lab Sample ID: LCS 490-355673/3
Matrix: Water
Analysis Batch: 355673

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	5.00	5.389		ug/L		108	70 - 130
Bromobenzene	5.00	5.315		ug/L		106	70 - 130
Bromochloromethane	5.00	5.455		ug/L		109	70 - 130
Bromodichloromethane	5.00	5.200		ug/L		104	70 - 130
Bromoform	5.00	4.830		ug/L		97	70 - 130
Bromomethane	5.00	5.119		ug/L		102	70 - 130
Carbon tetrachloride	5.00	5.074		ug/L		101	70 - 130
Chlorobenzene	5.00	5.263		ug/L		105	70 - 130
Chloroethane	5.00	4.611		ug/L		92	70 - 130
Chloroform	5.00	5.236		ug/L		105	70 - 130
Chloromethane	5.00	4.789		ug/L		96	70 - 130
2-Chlorotoluene	5.00	5.295		ug/L		106	70 - 130
4-Chlorotoluene	5.00	4.990		ug/L		100	70 - 130
cis-1,2-Dichloroethene	5.00	5.183		ug/L		104	70 - 130
cis-1,3-Dichloropropene	5.00	5.340		ug/L		107	70 - 130
Dibromochloromethane	5.00	4.863		ug/L		97	70 - 130
1,2-Dibromo-3-Chloropropane	5.00	5.127		ug/L		103	70 - 130
1,2-Dibromoethane (EDB)	5.00	5.158		ug/L		103	70 - 130
Dibromomethane	5.00	5.285		ug/L		106	70 - 130
1,2-Dichlorobenzene	5.00	5.107		ug/L		102	70 - 130
1,3-Dichlorobenzene	5.00	5.177		ug/L		104	70 - 130
1,4-Dichlorobenzene	5.00	5.248		ug/L		105	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-355673/3
Matrix: Water
Analysis Batch: 355673

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	5.00	5.527		ug/L		111	70 - 130
1,1-Dichloroethane	5.00	5.295		ug/L		106	70 - 130
1,2-Dichloroethane	5.00	5.385		ug/L		108	70 - 130
1,1-Dichloroethene	5.00	5.336		ug/L		107	70 - 130
1,2-Dichloropropane	5.00	5.425		ug/L		108	70 - 130
1,3-Dichloropropane	5.00	5.531		ug/L		111	70 - 130
2,2-Dichloropropane	5.00	5.327		ug/L		107	70 - 130
1,1-Dichloropropene	5.00	5.240		ug/L		105	70 - 130
Diisopropyl ether	5.00	5.264		ug/L		105	70 - 130
Ethylbenzene	5.00	5.165		ug/L		103	70 - 130
Isopropylbenzene	5.00	5.115		ug/L		102	70 - 130
Methylene Chloride	5.00	5.240		ug/L		105	70 - 130
Methyl tert-butyl ether	5.00	5.349		ug/L		107	70 - 130
Naphthalene	5.00	5.371		ug/L		107	70 - 130
n-Butylbenzene	5.00	5.162		ug/L		103	70 - 130
N-Propylbenzene	5.00	5.234		ug/L		105	70 - 130
p-Isopropyltoluene	5.00	5.124		ug/L		102	70 - 130
sec-Butylbenzene	5.00	5.095		ug/L		102	70 - 130
Styrene	5.00	5.048		ug/L		101	70 - 130
Tert-amyl methyl ether	5.00	5.521		ug/L		110	70 - 130
tert-Butyl alcohol	50.0	57.47		ug/L		115	70 - 130
tert-Butylbenzene	5.00	5.229		ug/L		105	70 - 130
Tert-butyl ethyl ether	5.00	5.316		ug/L		106	70 - 130
1,1,1,2-Tetrachloroethane	5.00	5.098		ug/L		102	70 - 130
1,1,2,2-Tetrachloroethane	5.00	5.354		ug/L		107	70 - 130
Tetrachloroethylene	5.00	5.353		ug/L		107	70 - 130
Toluene	5.00	5.276		ug/L		106	70 - 130
trans-1,2-Dichloroethene	5.00	5.219		ug/L		104	70 - 130
1,2,3-Trichlorobenzene	5.00	5.413		ug/L		108	70 - 130
1,2,4-Trichlorobenzene	5.00	5.361		ug/L		107	70 - 130
1,1,1-Trichloroethane	5.00	5.220		ug/L		104	70 - 130
1,1,2-Trichloroethane	5.00	5.427		ug/L		109	70 - 130
Trichloroethene	5.00	5.283		ug/L		106	70 - 130
1,2,3-Trichloropropane	5.00	5.385		ug/L		108	70 - 130
1,2,4-Trimethylbenzene	5.00	5.165		ug/L		103	70 - 130
1,3,5-Trimethylbenzene	5.00	5.004		ug/L		100	70 - 130
Vinyl chloride	5.00	4.623		ug/L		92	70 - 130
m,p-Xylene	5.00	5.318		ug/L		106	70 - 130
o-Xylene	5.00	5.197		ug/L		104	70 - 130
Xylenes, Total	10.0	10.52		ug/L		105	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-355673/4
Matrix: Water
Analysis Batch: 355673

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	5.00	5.382		ug/L		108	70 - 130	0	20
Bromobenzene	5.00	5.551		ug/L		111	70 - 130	4	20
Bromochloromethane	5.00	5.436		ug/L		109	70 - 130	0	20
Bromodichloromethane	5.00	5.128		ug/L		103	70 - 130	1	20
Bromoform	5.00	5.027		ug/L		101	70 - 130	4	20
Bromomethane	5.00	5.248		ug/L		105	70 - 130	2	20
Carbon tetrachloride	5.00	5.318		ug/L		106	70 - 130	5	20
Chlorobenzene	5.00	5.265		ug/L		105	70 - 130	0	20
Chloroethane	5.00	4.795		ug/L		96	70 - 130	4	20
Chloroform	5.00	5.411		ug/L		108	70 - 130	3	20
Chloromethane	5.00	5.037		ug/L		101	70 - 130	5	20
2-Chlorotoluene	5.00	5.651		ug/L		113	70 - 130	7	20
4-Chlorotoluene	5.00	5.471		ug/L		109	70 - 130	9	20
cis-1,2-Dichloroethene	5.00	5.384		ug/L		108	70 - 130	4	20
cis-1,3-Dichloropropene	5.00	5.047		ug/L		101	70 - 130	6	20
Dibromochloromethane	5.00	4.951		ug/L		99	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	5.00	5.295		ug/L		106	70 - 130	3	20
1,2-Dibromoethane (EDB)	5.00	5.360		ug/L		107	70 - 130	4	20
Dibromomethane	5.00	5.383		ug/L		108	70 - 130	2	20
1,2-Dichlorobenzene	5.00	5.300		ug/L		106	70 - 130	4	20
1,3-Dichlorobenzene	5.00	5.285		ug/L		106	70 - 130	2	20
1,4-Dichlorobenzene	5.00	5.305		ug/L		106	70 - 130	1	20
Dichlorodifluoromethane	5.00	5.740		ug/L		115	70 - 130	4	20
1,1-Dichloroethane	5.00	5.442		ug/L		109	70 - 130	3	20
1,2-Dichloroethane	5.00	5.477		ug/L		110	70 - 130	2	20
1,1-Dichloroethene	5.00	5.543		ug/L		111	70 - 130	4	20
1,2-Dichloropropane	5.00	5.030		ug/L		101	70 - 130	8	20
1,3-Dichloropropane	5.00	5.157		ug/L		103	70 - 130	7	20
2,2-Dichloropropane	5.00	5.504		ug/L		110	70 - 130	3	20
1,1-Dichloropropene	5.00	5.483		ug/L		110	70 - 130	5	20
Diisopropyl ether	5.00	5.439		ug/L		109	70 - 130	3	20
Ethylbenzene	5.00	5.345		ug/L		107	70 - 130	3	20
Isopropylbenzene	5.00	5.311		ug/L		106	70 - 130	4	20
Methylene Chloride	5.00	5.366		ug/L		107	70 - 130	2	20
Methyl tert-butyl ether	5.00	5.414		ug/L		108	70 - 130	1	20
Naphthalene	5.00	5.261		ug/L		105	70 - 130	2	20
n-Butylbenzene	5.00	5.295		ug/L		106	70 - 130	3	20
N-Propylbenzene	5.00	5.427		ug/L		109	70 - 130	4	20
p-Isopropyltoluene	5.00	5.342		ug/L		107	70 - 130	4	20
sec-Butylbenzene	5.00	5.282		ug/L		106	70 - 130	4	20
Styrene	5.00	5.325		ug/L		107	70 - 130	5	20
Tert-amyl methyl ether	5.00	5.428		ug/L		109	70 - 130	2	20
tert-Butyl alcohol	50.0	57.16		ug/L		114	70 - 130	1	20
tert-Butylbenzene	5.00	5.420		ug/L		108	70 - 130	4	20
Tert-butyl ethyl ether	5.00	5.459		ug/L		109	70 - 130	3	20
1,1,1,2-Tetrachloroethane	5.00	5.161		ug/L		103	70 - 130	1	20
1,1,2,2-Tetrachloroethane	5.00	5.654		ug/L		113	70 - 130	5	20
Tetrachloroethylene	5.00	5.288		ug/L		106	70 - 130	1	20

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-355673/4
Matrix: Water
Analysis Batch: 355673

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene			5.00	5.138		ug/L		103	70 - 130	3	20
trans-1,2-Dichloroethene			5.00	5.348		ug/L		107	70 - 130	2	20
1,2,3-Trichlorobenzene			5.00	5.431		ug/L		109	70 - 130	0	20
1,2,4-Trichlorobenzene			5.00	5.300		ug/L		106	70 - 130	1	20
1,1,1-Trichloroethane			5.00	5.374		ug/L		107	70 - 130	3	20
1,1,2-Trichloroethane			5.00	5.344		ug/L		107	70 - 130	2	20
Trichloroethene			5.00	5.408		ug/L		108	70 - 130	2	20
1,2,3-Trichloropropane			5.00	5.627		ug/L		113	70 - 130	4	20
1,2,4-Trimethylbenzene			5.00	5.315		ug/L		106	70 - 130	3	20
1,3,5-Trimethylbenzene			5.00	5.279		ug/L		106	70 - 130	5	20
Vinyl chloride			5.00	4.863		ug/L		97	70 - 130	5	20
m,p-Xylene			5.00	5.750		ug/L		115	70 - 130	8	20
o-Xylene			5.00	5.384		ug/L		108	70 - 130	4	20
Xylenes, Total			10.0	11.13		ug/L		111	70 - 130	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

QC Association Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107727-1
SDG: 125 Hanover Pike, Hampstead, MD

GC/MS VOA

Analysis Batch: 355673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-107727-1	124 Hanover INF	Total/NA	Water	524.2	
490-107727-2	124 Hanover GAC-1	Total/NA	Water	524.2	
490-107727-3	124 Hanover GAC-2	Total/NA	Water	524.2	
490-107727-4	124 Hanover Final GAC	Total/NA	Water	524.2	
MB 490-355673/6	Method Blank	Total/NA	Water	524.2	
LCS 490-355673/3	Lab Control Sample	Total/NA	Water	524.2	
LCSD 490-355673/4	Lab Control Sample Dup	Total/NA	Water	524.2	

Lab Chronicle

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107727-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: 124 Hanover INF

Lab Sample ID: 490-107727-1
Date Collected: 07/13/16 12:24
Matrix: Water
Date Received: 07/15/16 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	10 mL	10 mL	355673	07/16/16 13:27	JJR	TAL NSH

Client Sample ID: 124 Hanover GAC-1

Lab Sample ID: 490-107727-2
Date Collected: 07/13/16 12:21
Matrix: Water
Date Received: 07/15/16 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	10 mL	10 mL	355673	07/16/16 12:59	JJR	TAL NSH

Client Sample ID: 124 Hanover GAC-2

Lab Sample ID: 490-107727-3
Date Collected: 07/13/16 12:18
Matrix: Water
Date Received: 07/15/16 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	10 mL	10 mL	355673	07/16/16 12:32	JJR	TAL NSH

Client Sample ID: 124 Hanover Final GAC

Lab Sample ID: 490-107727-4
Date Collected: 07/13/16 12:15
Matrix: Water
Date Received: 07/15/16 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	10 mL	10 mL	355673	07/16/16 12:05	JJR	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107727-1
SDG: 125 Hanover Pike, Hampstead, MD

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	TAL NSH

Protocol References:

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107727-1
SDG: 125 Hanover Pike, Hampstead, MD

Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Maryland	State Program	3	316	03-31-17

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FOR

490-107727 Chain of Custody

Cooler Received/Opened On 7/15/2016 @ 1005

Time Samples Removed From Cooler_____ Time Samples Placed In Storage_____ (2 Hour Window)

1. Tracking # 4851 (last 4 digits, FedEx) Courier: _FedEx_

   IR Gun ID 97310166 pH Strip Lot HC564992 Chlorine Strip Lot 012516A

2. Temperature of rep. sample or temp blank when opened: 5.9 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

   If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

   Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA PM 7/15/16

   b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) PM

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

   b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) PM

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) PM

I certify that I attached a label with the unique LIMS number to each container (intial) PM

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#_____

BIS = Broken in shipment

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

180325

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: M. Parsons	Lab PM: Salomon, Sherry	Carrier Tracking No(s): BALTIMORE	COC No: 490-37605-12209.1
Client Contact: Mr. John Canzeri	Phone: 443-280-2673	E-Mail: sherry.salomon@testamericainc.com		Page: Page 1 of 1
Company: AECOM				Job #: 60338398
Address: 8000 Virginia Manor Road Suite 110	Due Date Requested:			
City: Beltsville	TAT Requested (days): STD			
State, Zip: MD, 20705				
Phone: 301-289-3805(Tel) 301-289-3901(Fax)	PO #: Purchase Order Requested			
Email: John.Canzeri@aecom.com	WO #: PENDING			
Project Name: 32785.Hampstead.EL (MD)	Project #: 49008398 (ENFOS)			
Site: 125 Hanover Pike, Hampstead, MD	ENFOS PROJECT #: 102537-FPPS			

Analysis Requested

Loc: 490
107727

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - Standard 8260 List + Oxygenates	8015C_GRO - Standard GRO Range (C6-C10)	524.2 + Oxy	Total Number of containers	Special Instructions/Note:
				Preservation Code:						A		
1	124 Hanover INF	7/13/16	1224	G	W	N	N			✓	3	
2	124 Hanover GAC-1		1221							✓	3	
3	124 Hanover GAC-2		1218							✓	3	
4	124 Hanover FINAL GAC		1215							✓	3	

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Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: 7-Eleven

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
(Parsons)	7-14-2016/1005	AECOM		7-14-2016/1005	TestAmerica
	7-14-2016/1304		5.9	7/15/16 1005	TAN

Custody Seals Intact:	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
Δ Yes Δ No		

7/19/2016

Login Sample Receipt Checklist

Client: AECOM

Job Number: 490-107727-1
SDG Number: 125 Hanover Pike, Hampstead, MD

Login Number: 107727
List Number: 1
Creator: Ngo, Phiet

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-112875-1
TestAmerica SDG: 125 Hanover Pike, Hampstead, MD
Client Project/Site: 32785. Hampstead.EL

For:
AECOM
8000 Virginia Manor Road
Suite 110
Beltsville, Maryland 20705

Attn: Mr. John Canzeri

Authorized for release by:
10/6/2016 2:17:12 PM
Leah Klingensmith, Senior Project Manager
(615)301-5038
leah.klingensmith@testamericainc.com

Designee for

Sherry Salomon, Manager of Project Management Assistants
(615)301-5033
sherry.salomon@testamericainc.com

LINKS

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Have a Question? Ask The Expert

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: AECOM
Project/Site: 32785. Hampstead.EL

TestAmerica Job ID: 490-112875-1
SDG: 125 Hanover Pike, Hampstead, MD

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-112875-1	124 Hanover INF	Drinking Water	09/27/16 15:43	09/29/16 10:00
490-112875-2	124 Hanover GAC-1	Drinking Water	09/27/16 15:40	09/29/16 10:00
490-112875-3	124 Hanover GAC-2	Drinking Water	09/27/16 15:38	09/29/16 10:00
490-112875-4	124 Hanover Final GAC	Drinking Water	09/27/16 15:35	09/29/16 10:00

Case Narrative

Client: AECOM
Project/Site: 32785. Hampstead.EL

TestAmerica Job ID: 490-112875-1
SDG: 125 Hanover Pike, Hampstead, MD

Job ID: 490-112875-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-112875-1

Comments
No additional comments.

Receipt
The samples were received on 9/29/2016 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.7º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: AECOM
Project/Site: 32785. Hampstead.EL

TestAmerica Job ID: 490-112875-1
SDG: 125 Hanover Pike, Hampstead, MD

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: AECOM
Project/Site: 32785. Hampstead.EL

TestAmerica Job ID: 490-112875-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: 124 Hanover INF

Date Collected: 09/27/16 15:43
Date Received: 09/29/16 10:00

Lab Sample ID: 490-112875-1

Matrix: Drinking Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L			10/05/16 16:15	1
Bromobenzene	ND		0.500		ug/L			10/05/16 16:15	1
Bromochloromethane	ND		0.500		ug/L			10/05/16 16:15	1
Bromodichloromethane	ND		0.500		ug/L			10/05/16 16:15	1
Bromoform	ND		0.500		ug/L			10/05/16 16:15	1
Bromomethane	ND		0.500		ug/L			10/05/16 16:15	1
Carbon tetrachloride	ND		0.500		ug/L			10/05/16 16:15	1
Chlorobenzene	ND		0.500		ug/L			10/05/16 16:15	1
Chloroethane	ND		0.500		ug/L			10/05/16 16:15	1
Chloroform	ND		0.500		ug/L			10/05/16 16:15	1
Chloromethane	ND		0.500		ug/L			10/05/16 16:15	1
2-Chlorotoluene	ND		0.500		ug/L			10/05/16 16:15	1
4-Chlorotoluene	ND		0.500		ug/L			10/05/16 16:15	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			10/05/16 16:15	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			10/05/16 16:15	1
Dibromochloromethane	ND		0.500		ug/L			10/05/16 16:15	1
1,2-Dibromo-3-Chloropropane	ND		2.00		ug/L			10/05/16 16:15	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			10/05/16 16:15	1
Dibromomethane	ND		0.500		ug/L			10/05/16 16:15	1
1,2-Dichlorobenzene	ND		0.500		ug/L			10/05/16 16:15	1
1,3-Dichlorobenzene	ND		0.500		ug/L			10/05/16 16:15	1
1,4-Dichlorobenzene	ND		0.500		ug/L			10/05/16 16:15	1
Dichlorodifluoromethane	ND		0.500		ug/L			10/05/16 16:15	1
1,1-Dichloroethane	ND		0.500		ug/L			10/05/16 16:15	1
1,2-Dichloroethane	ND		0.500		ug/L			10/05/16 16:15	1
1,1-Dichloroethene	ND		0.500		ug/L			10/05/16 16:15	1
1,2-Dichloropropane	ND		0.500		ug/L			10/05/16 16:15	1
1,3-Dichloropropane	ND		0.500		ug/L			10/05/16 16:15	1
2,2-Dichloropropane	ND		0.500		ug/L			10/05/16 16:15	1
1,1-Dichloropropene	ND		0.500		ug/L			10/05/16 16:15	1
Diisopropyl ether	ND		0.500		ug/L			10/05/16 16:15	1
Ethylbenzene	ND		0.500		ug/L			10/05/16 16:15	1
Isopropylbenzene	ND		0.500		ug/L			10/05/16 16:15	1
Methylene Chloride	ND		5.00		ug/L			10/05/16 16:15	1
Methyl tert-butyl ether	ND		0.500		ug/L			10/05/16 16:15	1
Naphthalene	ND		5.00		ug/L			10/05/16 16:15	1
n-Butylbenzene	ND		0.500		ug/L			10/05/16 16:15	1
N-Propylbenzene	ND		0.500		ug/L			10/05/16 16:15	1
p-Isopropyltoluene	ND		0.500		ug/L			10/05/16 16:15	1
sec-Butylbenzene	ND		0.500		ug/L			10/05/16 16:15	1
Styrene	ND		0.500		ug/L			10/05/16 16:15	1
Tert-amyl methyl ether	ND		0.500		ug/L			10/05/16 16:15	1
tert-Butyl alcohol	ND		10.0		ug/L			10/05/16 16:15	1
tert-Butylbenzene	ND		0.500		ug/L			10/05/16 16:15	1
Tert-butyl ethyl ether	ND		0.500		ug/L			10/05/16 16:15	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			10/05/16 16:15	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			10/05/16 16:15	1
Tetrachloroethylene	ND		0.500		ug/L			10/05/16 16:15	1
Toluene	ND		0.500		ug/L			10/05/16 16:15	1

Client Sample Results

Client: AECOM
Project/Site: 32785. Hampstead.EL

TestAmerica Job ID: 490-112875-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: 124 Hanover INF

Date Collected: 09/27/16 15:43
Date Received: 09/29/16 10:00

Lab Sample ID: 490-112875-1

Matrix: Drinking Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		0.500		ug/L			10/05/16 16:15	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			10/05/16 16:15	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			10/05/16 16:15	1
1,1,1-Trichloroethane	ND		0.500		ug/L			10/05/16 16:15	1
1,1,2-Trichloroethane	ND		0.500		ug/L			10/05/16 16:15	1
Trichloroethene	ND		0.500		ug/L			10/05/16 16:15	1
1,2,3-Trichloropropane	ND		0.500		ug/L			10/05/16 16:15	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			10/05/16 16:15	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			10/05/16 16:15	1
Vinyl chloride	ND		0.500		ug/L			10/05/16 16:15	1
m,p-Xylene	ND		0.500		ug/L			10/05/16 16:15	1
o-Xylene	ND		0.500		ug/L			10/05/16 16:15	1
Xylenes, Total	ND		1.00		ug/L			10/05/16 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*10/05/16 16:15*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*10/05/16 16:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*		*10/05/16 16:15*	*1*
Toluene-d8 (Surr)	*79*		*70 - 130*		*10/05/16 16:15*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785. Hampstead.EL

TestAmerica Job ID: 490-112875-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: 124 Hanover GAC-1

Date Collected: 09/27/16 15:40
Date Received: 09/29/16 10:00

Lab Sample ID: 490-112875-2

Matrix: Drinking Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L			10/05/16 15:48	1
Bromobenzene	ND		0.500		ug/L			10/05/16 15:48	1
Bromochloromethane	ND		0.500		ug/L			10/05/16 15:48	1
Bromodichloromethane	ND		0.500		ug/L			10/05/16 15:48	1
Bromoform	ND		0.500		ug/L			10/05/16 15:48	1
Bromomethane	ND		0.500		ug/L			10/05/16 15:48	1
Carbon tetrachloride	ND		0.500		ug/L			10/05/16 15:48	1
Chlorobenzene	ND		0.500		ug/L			10/05/16 15:48	1
Chloroethane	ND		0.500		ug/L			10/05/16 15:48	1
Chloroform	ND		0.500		ug/L			10/05/16 15:48	1
Chloromethane	ND		0.500		ug/L			10/05/16 15:48	1
2-Chlorotoluene	ND		0.500		ug/L			10/05/16 15:48	1
4-Chlorotoluene	ND		0.500		ug/L			10/05/16 15:48	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			10/05/16 15:48	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			10/05/16 15:48	1
Dibromochloromethane	ND		0.500		ug/L			10/05/16 15:48	1
1,2-Dibromo-3-Chloropropane	ND		2.00		ug/L			10/05/16 15:48	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			10/05/16 15:48	1
Dibromomethane	ND		0.500		ug/L			10/05/16 15:48	1
1,2-Dichlorobenzene	ND		0.500		ug/L			10/05/16 15:48	1
1,3-Dichlorobenzene	ND		0.500		ug/L			10/05/16 15:48	1
1,4-Dichlorobenzene	ND		0.500		ug/L			10/05/16 15:48	1
Dichlorodifluoromethane	ND		0.500		ug/L			10/05/16 15:48	1
1,1-Dichloroethane	ND		0.500		ug/L			10/05/16 15:48	1
1,2-Dichloroethane	ND		0.500		ug/L			10/05/16 15:48	1
1,1-Dichloroethene	ND		0.500		ug/L			10/05/16 15:48	1
1,2-Dichloropropane	ND		0.500		ug/L			10/05/16 15:48	1
1,3-Dichloropropane	ND		0.500		ug/L			10/05/16 15:48	1
2,2-Dichloropropane	ND		0.500		ug/L			10/05/16 15:48	1
1,1-Dichloropropene	ND		0.500		ug/L			10/05/16 15:48	1
Diisopropyl ether	ND		0.500		ug/L			10/05/16 15:48	1
Ethylbenzene	ND		0.500		ug/L			10/05/16 15:48	1
Isopropylbenzene	ND		0.500		ug/L			10/05/16 15:48	1
Methylene Chloride	ND		5.00		ug/L			10/05/16 15:48	1
Methyl tert-butyl ether	**0.608**		0.500		ug/L			10/05/16 15:48	1
Naphthalene	ND		5.00		ug/L			10/05/16 15:48	1
n-Butylbenzene	ND		0.500		ug/L			10/05/16 15:48	1
N-Propylbenzene	ND		0.500		ug/L			10/05/16 15:48	1
p-Isopropyltoluene	ND		0.500		ug/L			10/05/16 15:48	1
sec-Butylbenzene	ND		0.500		ug/L			10/05/16 15:48	1
Styrene	ND		0.500		ug/L			10/05/16 15:48	1
Tert-amyl methyl ether	ND		0.500		ug/L			10/05/16 15:48	1
tert-Butyl alcohol	ND		10.0		ug/L			10/05/16 15:48	1
tert-Butylbenzene	ND		0.500		ug/L			10/05/16 15:48	1
Tert-butyl ethyl ether	ND		0.500		ug/L			10/05/16 15:48	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			10/05/16 15:48	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			10/05/16 15:48	1
Tetrachloroethylene	ND		0.500		ug/L			10/05/16 15:48	1
Toluene	ND		0.500		ug/L			10/05/16 15:48	1

Client Sample Results

Client: AECOM
Project/Site: 32785. Hampstead.EL

TestAmerica Job ID: 490-112875-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: 124 Hanover GAC-1

Date Collected: 09/27/16 15:40
Date Received: 09/29/16 10:00

Lab Sample ID: 490-112875-2

Matrix: Drinking Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		0.500		ug/L			10/05/16 15:48	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			10/05/16 15:48	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			10/05/16 15:48	1
1,1,1-Trichloroethane	ND		0.500		ug/L			10/05/16 15:48	1
1,1,2-Trichloroethane	ND		0.500		ug/L			10/05/16 15:48	1
Trichloroethene	ND		0.500		ug/L			10/05/16 15:48	1
1,2,3-Trichloropropane	ND		0.500		ug/L			10/05/16 15:48	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			10/05/16 15:48	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			10/05/16 15:48	1
Vinyl chloride	ND		0.500		ug/L			10/05/16 15:48	1
m,p-Xylene	ND		0.500		ug/L			10/05/16 15:48	1
o-Xylene	ND		0.500		ug/L			10/05/16 15:48	1
Xylenes, Total	ND		1.00		ug/L			10/05/16 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*10/05/16 15:48*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/05/16 15:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*		*10/05/16 15:48*	*1*
Toluene-d8 (Surr)	*79*		*70 - 130*		*10/05/16 15:48*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785. Hampstead.EL

TestAmerica Job ID: 490-112875-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: 124 Hanover GAC-2

Date Collected: 09/27/16 15:38
Date Received: 09/29/16 10:00

Lab Sample ID: 490-112875-3

Matrix: Drinking Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L			10/05/16 15:21	1
Bromobenzene	ND		0.500		ug/L			10/05/16 15:21	1
Bromochloromethane	ND		0.500		ug/L			10/05/16 15:21	1
Bromodichloromethane	ND		0.500		ug/L			10/05/16 15:21	1
Bromoform	ND		0.500		ug/L			10/05/16 15:21	1
Bromomethane	ND		0.500		ug/L			10/05/16 15:21	1
Carbon tetrachloride	ND		0.500		ug/L			10/05/16 15:21	1
Chlorobenzene	ND		0.500		ug/L			10/05/16 15:21	1
Chloroethane	ND		0.500		ug/L			10/05/16 15:21	1
Chloroform	ND		0.500		ug/L			10/05/16 15:21	1
Chloromethane	ND		0.500		ug/L			10/05/16 15:21	1
2-Chlorotoluene	ND		0.500		ug/L			10/05/16 15:21	1
4-Chlorotoluene	ND		0.500		ug/L			10/05/16 15:21	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			10/05/16 15:21	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			10/05/16 15:21	1
Dibromochloromethane	ND		0.500		ug/L			10/05/16 15:21	1
1,2-Dibromo-3-Chloropropane	ND		2.00		ug/L			10/05/16 15:21	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			10/05/16 15:21	1
Dibromomethane	ND		0.500		ug/L			10/05/16 15:21	1
1,2-Dichlorobenzene	ND		0.500		ug/L			10/05/16 15:21	1
1,3-Dichlorobenzene	ND		0.500		ug/L			10/05/16 15:21	1
1,4-Dichlorobenzene	ND		0.500		ug/L			10/05/16 15:21	1
Dichlorodifluoromethane	ND		0.500		ug/L			10/05/16 15:21	1
1,1-Dichloroethane	ND		0.500		ug/L			10/05/16 15:21	1
1,2-Dichloroethane	ND		0.500		ug/L			10/05/16 15:21	1
1,1-Dichloroethene	ND		0.500		ug/L			10/05/16 15:21	1
1,2-Dichloropropane	ND		0.500		ug/L			10/05/16 15:21	1
1,3-Dichloropropane	ND		0.500		ug/L			10/05/16 15:21	1
2,2-Dichloropropane	ND		0.500		ug/L			10/05/16 15:21	1
1,1-Dichloropropene	ND		0.500		ug/L			10/05/16 15:21	1
Diisopropyl ether	ND		0.500		ug/L			10/05/16 15:21	1
Ethylbenzene	ND		0.500		ug/L			10/05/16 15:21	1
Isopropylbenzene	ND		0.500		ug/L			10/05/16 15:21	1
Methylene Chloride	ND		5.00		ug/L			10/05/16 15:21	1
Methyl tert-butyl ether	ND		0.500		ug/L			10/05/16 15:21	1
Naphthalene	ND		5.00		ug/L			10/05/16 15:21	1
n-Butylbenzene	ND		0.500		ug/L			10/05/16 15:21	1
N-Propylbenzene	ND		0.500		ug/L			10/05/16 15:21	1
p-Isopropyltoluene	ND		0.500		ug/L			10/05/16 15:21	1
sec-Butylbenzene	ND		0.500		ug/L			10/05/16 15:21	1
Styrene	ND		0.500		ug/L			10/05/16 15:21	1
Tert-amyl methyl ether	ND		0.500		ug/L			10/05/16 15:21	1
tert-Butyl alcohol	ND		10.0		ug/L			10/05/16 15:21	1
tert-Butylbenzene	ND		0.500		ug/L			10/05/16 15:21	1
Tert-butyl ethyl ether	ND		0.500		ug/L			10/05/16 15:21	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			10/05/16 15:21	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			10/05/16 15:21	1
Tetrachloroethylene	ND		0.500		ug/L			10/05/16 15:21	1
Toluene	ND		0.500		ug/L			10/05/16 15:21	1

Client Sample Results

Client: AECOM
Project/Site: 32785. Hampstead.EL

TestAmerica Job ID: 490-112875-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: 124 Hanover GAC-2

Date Collected: 09/27/16 15:38
Date Received: 09/29/16 10:00

Lab Sample ID: 490-112875-3

Matrix: Drinking Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		0.500		ug/L			10/05/16 15:21	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			10/05/16 15:21	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			10/05/16 15:21	1
1,1,1-Trichloroethane	ND		0.500		ug/L			10/05/16 15:21	1
1,1,2-Trichloroethane	ND		0.500		ug/L			10/05/16 15:21	1
Trichloroethene	ND		0.500		ug/L			10/05/16 15:21	1
1,2,3-Trichloropropane	ND		0.500		ug/L			10/05/16 15:21	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			10/05/16 15:21	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			10/05/16 15:21	1
Vinyl chloride	ND		0.500		ug/L			10/05/16 15:21	1
m,p-Xylene	ND		0.500		ug/L			10/05/16 15:21	1
o-Xylene	ND		0.500		ug/L			10/05/16 15:21	1
Xylenes, Total	ND		1.00		ug/L			10/05/16 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/05/16 15:21*	*1*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*10/05/16 15:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*		*10/05/16 15:21*	*1*
Toluene-d8 (Surr)	*80*		*70 - 130*		*10/05/16 15:21*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785. Hampstead.EL

TestAmerica Job ID: 490-112875-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: 124 Hanover Final GAC

Date Collected: 09/27/16 15:35
Date Received: 09/29/16 10:00

Lab Sample ID: 490-112875-4

Matrix: Drinking Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L			10/05/16 14:54	1
Bromobenzene	ND		0.500		ug/L			10/05/16 14:54	1
Bromochloromethane	ND		0.500		ug/L			10/05/16 14:54	1
Bromodichloromethane	ND		0.500		ug/L			10/05/16 14:54	1
Bromoform	ND		0.500		ug/L			10/05/16 14:54	1
Bromomethane	ND		0.500		ug/L			10/05/16 14:54	1
Carbon tetrachloride	ND		0.500		ug/L			10/05/16 14:54	1
Chlorobenzene	ND		0.500		ug/L			10/05/16 14:54	1
Chloroethane	ND		0.500		ug/L			10/05/16 14:54	1
Chloroform	ND		0.500		ug/L			10/05/16 14:54	1
Chloromethane	ND		0.500		ug/L			10/05/16 14:54	1
2-Chlorotoluene	ND		0.500		ug/L			10/05/16 14:54	1
4-Chlorotoluene	ND		0.500		ug/L			10/05/16 14:54	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			10/05/16 14:54	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			10/05/16 14:54	1
Dibromochloromethane	ND		0.500		ug/L			10/05/16 14:54	1
1,2-Dibromo-3-Chloropropane	ND		2.00		ug/L			10/05/16 14:54	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			10/05/16 14:54	1
Dibromomethane	ND		0.500		ug/L			10/05/16 14:54	1
1,2-Dichlorobenzene	ND		0.500		ug/L			10/05/16 14:54	1
1,3-Dichlorobenzene	ND		0.500		ug/L			10/05/16 14:54	1
1,4-Dichlorobenzene	ND		0.500		ug/L			10/05/16 14:54	1
Dichlorodifluoromethane	ND		0.500		ug/L			10/05/16 14:54	1
1,1-Dichloroethane	ND		0.500		ug/L			10/05/16 14:54	1
1,2-Dichloroethane	ND		0.500		ug/L			10/05/16 14:54	1
1,1-Dichloroethene	ND		0.500		ug/L			10/05/16 14:54	1
1,2-Dichloropropane	ND		0.500		ug/L			10/05/16 14:54	1
1,3-Dichloropropane	ND		0.500		ug/L			10/05/16 14:54	1
2,2-Dichloropropane	ND		0.500		ug/L			10/05/16 14:54	1
1,1-Dichloropropene	ND		0.500		ug/L			10/05/16 14:54	1
Diisopropyl ether	ND		0.500		ug/L			10/05/16 14:54	1
Ethylbenzene	ND		0.500		ug/L			10/05/16 14:54	1
Isopropylbenzene	ND		0.500		ug/L			10/05/16 14:54	1
Methylene Chloride	ND		5.00		ug/L			10/05/16 14:54	1
Methyl tert-butyl ether	ND		0.500		ug/L			10/05/16 14:54	1
Naphthalene	ND		5.00		ug/L			10/05/16 14:54	1
n-Butylbenzene	ND		0.500		ug/L			10/05/16 14:54	1
N-Propylbenzene	ND		0.500		ug/L			10/05/16 14:54	1
p-Isopropyltoluene	ND		0.500		ug/L			10/05/16 14:54	1
sec-Butylbenzene	ND		0.500		ug/L			10/05/16 14:54	1
Styrene	ND		0.500		ug/L			10/05/16 14:54	1
Tert-amyl methyl ether	ND		0.500		ug/L			10/05/16 14:54	1
tert-Butyl alcohol	ND		10.0		ug/L			10/05/16 14:54	1
tert-Butylbenzene	ND		0.500		ug/L			10/05/16 14:54	1
Tert-butyl ethyl ether	ND		0.500		ug/L			10/05/16 14:54	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			10/05/16 14:54	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			10/05/16 14:54	1
Tetrachloroethylene	ND		0.500		ug/L			10/05/16 14:54	1
Toluene	ND		0.500		ug/L			10/05/16 14:54	1

Client Sample Results

Client: AECOM
Project/Site: 32785. Hampstead.EL

TestAmerica Job ID: 490-112875-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: 124 Hanover Final GAC

Lab Sample ID: 490-112875-4

Date Collected: 09/27/16 15:35
Matrix: Drinking Water
Date Received: 09/29/16 10:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		0.500		ug/L			10/05/16 14:54	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			10/05/16 14:54	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			10/05/16 14:54	1
1,1,1-Trichloroethane	ND		0.500		ug/L			10/05/16 14:54	1
1,1,2-Trichloroethane	ND		0.500		ug/L			10/05/16 14:54	1
Trichloroethene	ND		0.500		ug/L			10/05/16 14:54	1
1,2,3-Trichloropropane	ND		0.500		ug/L			10/05/16 14:54	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			10/05/16 14:54	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			10/05/16 14:54	1
Vinyl chloride	ND		0.500		ug/L			10/05/16 14:54	1
m,p-Xylene	ND		0.500		ug/L			10/05/16 14:54	1
o-Xylene	ND		0.500		ug/L			10/05/16 14:54	1
Xylenes, Total	ND		1.00		ug/L			10/05/16 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*		*10/05/16 14:54*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*10/05/16 14:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 130*		*10/05/16 14:54*	*1*
Toluene-d8 (Surr)	*79*		*70 - 130*		*10/05/16 14:54*	*1*

QC Sample Results

Client: AECOM
Project/Site: 32785. Hampstead.EL

TestAmerica Job ID: 490-112875-1
SDG: 125 Hanover Pike, Hampstead, MD

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-375592/8
Matrix: Water
Analysis Batch: 375592

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L			10/05/16 14:00	1
Bromobenzene	ND		0.500		ug/L			10/05/16 14:00	1
Bromochloromethane	ND		0.500		ug/L			10/05/16 14:00	1
Bromodichloromethane	ND		0.500		ug/L			10/05/16 14:00	1
Bromoform	ND		0.500		ug/L			10/05/16 14:00	1
Bromomethane	ND		0.500		ug/L			10/05/16 14:00	1
Carbon tetrachloride	ND		0.500		ug/L			10/05/16 14:00	1
Chlorobenzene	ND		0.500		ug/L			10/05/16 14:00	1
Chloroethane	ND		0.500		ug/L			10/05/16 14:00	1
Chloroform	ND		0.500		ug/L			10/05/16 14:00	1
Chloromethane	ND		0.500		ug/L			10/05/16 14:00	1
2-Chlorotoluene	ND		0.500		ug/L			10/05/16 14:00	1
4-Chlorotoluene	ND		0.500		ug/L			10/05/16 14:00	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			10/05/16 14:00	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			10/05/16 14:00	1
Dibromochloromethane	ND		0.500		ug/L			10/05/16 14:00	1
1,2-Dibromo-3-Chloropropane	ND		2.00		ug/L			10/05/16 14:00	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			10/05/16 14:00	1
Dibromomethane	ND		0.500		ug/L			10/05/16 14:00	1
1,2-Dichlorobenzene	ND		0.500		ug/L			10/05/16 14:00	1
1,3-Dichlorobenzene	ND		0.500		ug/L			10/05/16 14:00	1
1,4-Dichlorobenzene	ND		0.500		ug/L			10/05/16 14:00	1
Dichlorodifluoromethane	ND		0.500		ug/L			10/05/16 14:00	1
1,1-Dichloroethane	ND		0.500		ug/L			10/05/16 14:00	1
1,2-Dichloroethane	ND		0.500		ug/L			10/05/16 14:00	1
1,1-Dichloroethene	ND		0.500		ug/L			10/05/16 14:00	1
1,2-Dichloropropane	ND		0.500		ug/L			10/05/16 14:00	1
1,3-Dichloropropane	ND		0.500		ug/L			10/05/16 14:00	1
2,2-Dichloropropane	ND		0.500		ug/L			10/05/16 14:00	1
1,1-Dichloropropene	ND		0.500		ug/L			10/05/16 14:00	1
Diisopropyl ether	ND		0.500		ug/L			10/05/16 14:00	1
Ethylbenzene	ND		0.500		ug/L			10/05/16 14:00	1
Isopropylbenzene	ND		0.500		ug/L			10/05/16 14:00	1
Methylene Chloride	ND		5.00		ug/L			10/05/16 14:00	1
Methyl tert-butyl ether	ND		0.500		ug/L			10/05/16 14:00	1
Naphthalene	ND		5.00		ug/L			10/05/16 14:00	1
n-Butylbenzene	ND		0.500		ug/L			10/05/16 14:00	1
N-Propylbenzene	ND		0.500		ug/L			10/05/16 14:00	1
p-Isopropyltoluene	ND		0.500		ug/L			10/05/16 14:00	1
sec-Butylbenzene	ND		0.500		ug/L			10/05/16 14:00	1
Styrene	ND		0.500		ug/L			10/05/16 14:00	1
Tert-amyl methyl ether	ND		0.500		ug/L			10/05/16 14:00	1
tert-Butyl alcohol	ND		10.0		ug/L			10/05/16 14:00	1
tert-Butylbenzene	ND		0.500		ug/L			10/05/16 14:00	1
Tert-butyl ethyl ether	ND		0.500		ug/L			10/05/16 14:00	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			10/05/16 14:00	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			10/05/16 14:00	1
Tetrachloroethylene	ND		0.500		ug/L			10/05/16 14:00	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-375592/8
Matrix: Water
Analysis Batch: 375592

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.500		ug/L			10/05/16 14:00	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			10/05/16 14:00	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			10/05/16 14:00	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			10/05/16 14:00	1
1,1,1-Trichloroethane	ND		0.500		ug/L			10/05/16 14:00	1
1,1,2-Trichloroethane	ND		0.500		ug/L			10/05/16 14:00	1
Trichloroethene	ND		0.500		ug/L			10/05/16 14:00	1
1,2,3-Trichloropropane	ND		0.500		ug/L			10/05/16 14:00	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			10/05/16 14:00	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			10/05/16 14:00	1
Vinyl chloride	ND		0.500		ug/L			10/05/16 14:00	1
m,p-Xylene	ND		0.500		ug/L			10/05/16 14:00	1
o-Xylene	ND		0.500		ug/L			10/05/16 14:00	1
Xylenes, Total	ND		1.00		ug/L			10/05/16 14:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*10/05/16 14:00*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*10/05/16 14:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*		*10/05/16 14:00*	*1*
Toluene-d8 (Surr)	*79*		*70 - 130*		*10/05/16 14:00*	*1*

Lab Sample ID: LCS 490-375592/3
Matrix: Water
Analysis Batch: 375592

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	5.00	5.346		ug/L		107	70 - 130
Bromobenzene	5.00	4.660		ug/L		93	70 - 130
Bromochloromethane	5.00	4.916		ug/L		98	70 - 130
Bromodichloromethane	5.00	4.782		ug/L		96	70 - 130
Bromoform	5.00	4.421		ug/L		88	70 - 130
Bromomethane	5.00	3.927		ug/L		79	70 - 130
Carbon tetrachloride	5.00	4.576		ug/L		92	70 - 130
Chlorobenzene	5.00	4.617		ug/L		92	70 - 130
Chloroethane	5.00	6.156		ug/L		123	70 - 130
Chloroform	5.00	4.870		ug/L		97	70 - 130
Chloromethane	5.00	5.938		ug/L		119	70 - 130
2-Chlorotoluene	5.00	5.485		ug/L		110	70 - 130
4-Chlorotoluene	5.00	4.842		ug/L		97	70 - 130
cis-1,2-Dichloroethene	5.00	5.486		ug/L		110	70 - 130
cis-1,3-Dichloropropene	5.00	4.093		ug/L		82	70 - 130
Dibromochloromethane	5.00	4.550		ug/L		91	70 - 130
1,2-Dibromo-3-Chloropropane	5.00	4.593		ug/L		92	70 - 130
1,2-Dibromoethane (EDB)	5.00	4.420		ug/L		88	70 - 130
Dibromomethane	5.00	4.785		ug/L		96	70 - 130
1,2-Dichlorobenzene	5.00	4.468		ug/L		89	70 - 130
1,3-Dichlorobenzene	5.00	4.502		ug/L		90	70 - 130
1,4-Dichlorobenzene	5.00	4.476		ug/L		90	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-375592/3
Matrix: Water
Analysis Batch: 375592

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	5.00	5.080		ug/L		102	70 - 130
1,1-Dichloroethane	5.00	5.550		ug/L		111	70 - 130
1,2-Dichloroethane	5.00	4.415		ug/L		88	70 - 130
1,1-Dichloroethene	5.00	5.268		ug/L		105	70 - 130
1,2-Dichloropropane	5.00	5.588		ug/L		112	70 - 130
1,3-Dichloropropane	5.00	3.987		ug/L		80	70 - 130
2,2-Dichloropropane	5.00	4.917		ug/L		98	70 - 130
1,1-Dichloropropene	5.00	5.050		ug/L		101	70 - 130
Diisopropyl ether	5.00	5.459		ug/L		109	70 - 130
Ethylbenzene	5.00	4.807		ug/L		96	70 - 130
Isopropylbenzene	5.00	4.706		ug/L		94	70 - 130
Methylene Chloride	5.00	5.587		ug/L		112	70 - 130
Methyl tert-butyl ether	5.00	4.798		ug/L		96	70 - 130
Naphthalene	5.00	4.263	J	ug/L		85	70 - 130
n-Butylbenzene	5.00	4.613		ug/L		92	70 - 130
N-Propylbenzene	5.00	5.139		ug/L		103	70 - 130
p-Isopropyltoluene	5.00	4.650		ug/L		93	70 - 130
sec-Butylbenzene	5.00	4.667		ug/L		93	70 - 130
Styrene	5.00	4.981		ug/L		100	70 - 130
Tert-amyl methyl ether	5.00	4.893		ug/L		98	70 - 130
tert-Butyl alcohol	50.0	47.33		ug/L		95	70 - 130
tert-Butylbenzene	5.00	4.771		ug/L		95	70 - 130
Tert-butyl ethyl ether	5.00	5.099		ug/L		102	70 - 130
1,1,1,2-Tetrachloroethane	5.00	4.350		ug/L		87	70 - 130
1,1,2,2-Tetrachloroethane	5.00	4.984		ug/L		100	70 - 130
Tetrachloroethylene	5.00	3.705		ug/L		74	70 - 130
Toluene	5.00	4.182		ug/L		84	70 - 130
trans-1,2-Dichloroethene	5.00	5.318		ug/L		106	70 - 130
1,2,3-Trichlorobenzene	5.00	4.221		ug/L		84	70 - 130
1,2,4-Trichlorobenzene	5.00	3.778		ug/L		76	70 - 130
1,1,1-Trichloroethane	5.00	4.751		ug/L		95	70 - 130
1,1,2-Trichloroethane	5.00	3.909		ug/L		78	70 - 130
Trichloroethene	5.00	4.947		ug/L		99	70 - 130
1,2,3-Trichloropropane	5.00	4.690		ug/L		94	70 - 130
1,2,4-Trimethylbenzene	5.00	4.876		ug/L		98	70 - 130
1,3,5-Trimethylbenzene	5.00	4.819		ug/L		96	70 - 130
Vinyl chloride	5.00	5.902		ug/L		118	70 - 130
m,p-Xylene	5.00	4.995		ug/L		100	70 - 130
o-Xylene	5.00	4.718		ug/L		94	70 - 130
Xylenes, Total	10.0	9.713		ug/L		97	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*
Toluene-d8 (Surr)	*82*		*70 - 130*

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-375592/4
Matrix: Water
Analysis Batch: 375592

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	5.00	5.318		ug/L		106	70 - 130	1	20
Bromobenzene	5.00	4.587		ug/L		92	70 - 130	2	20
Bromochloromethane	5.00	4.782		ug/L		96	70 - 130	3	20
Bromodichloromethane	5.00	4.616		ug/L		92	70 - 130	4	20
Bromoform	5.00	4.751		ug/L		95	70 - 130	7	20
Bromomethane	5.00	3.893		ug/L		78	70 - 130	1	20
Carbon tetrachloride	5.00	4.483		ug/L		90	70 - 130	2	20
Chlorobenzene	5.00	4.706		ug/L		94	70 - 130	2	20
Chloroethane	5.00	5.761		ug/L		115	70 - 130	7	20
Chloroform	5.00	4.790		ug/L		96	70 - 130	2	20
Chloromethane	5.00	5.883		ug/L		118	70 - 130	1	20
2-Chlorotoluene	5.00	5.471		ug/L		109	70 - 130	0	20
4-Chlorotoluene	5.00	4.659		ug/L		93	70 - 130	4	20
cis-1,2-Dichloroethene	5.00	5.260		ug/L		105	70 - 130	4	20
cis-1,3-Dichloropropene	5.00	4.042		ug/L		81	70 - 130	1	20
Dibromochloromethane	5.00	4.596		ug/L		92	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	5.00	4.799		ug/L		96	70 - 130	4	20
1,2-Dibromoethane (EDB)	5.00	4.633		ug/L		93	70 - 130	5	20
Dibromomethane	5.00	4.862		ug/L		97	70 - 130	2	20
1,2-Dichlorobenzene	5.00	4.416		ug/L		88	70 - 130	1	20
1,3-Dichlorobenzene	5.00	4.492		ug/L		90	70 - 130	0	20
1,4-Dichlorobenzene	5.00	4.613		ug/L		92	70 - 130	3	20
Dichlorodifluoromethane	5.00	5.058		ug/L		101	70 - 130	0	20
1,1-Dichloroethane	5.00	5.251		ug/L		105	70 - 130	6	20
1,2-Dichloroethane	5.00	4.637		ug/L		93	70 - 130	5	20
1,1-Dichloroethene	5.00	5.348		ug/L		107	70 - 130	1	20
1,2-Dichloropropane	5.00	5.288		ug/L		106	70 - 130	6	20
1,3-Dichloropropane	5.00	4.134		ug/L		83	70 - 130	4	20
2,2-Dichloropropane	5.00	4.770		ug/L		95	70 - 130	3	20
1,1-Dichloropropene	5.00	4.875		ug/L		97	70 - 130	4	20
Diisopropyl ether	5.00	5.524		ug/L		110	70 - 130	1	20
Ethylbenzene	5.00	4.808		ug/L		96	70 - 130	0	20
Isopropylbenzene	5.00	4.786		ug/L		96	70 - 130	2	20
Methylene Chloride	5.00	5.514		ug/L		110	70 - 130	1	20
Methyl tert-butyl ether	5.00	4.713		ug/L		94	70 - 130	2	20
Naphthalene	5.00	3.971	J	ug/L		79	70 - 130	7	20
n-Butylbenzene	5.00	4.775		ug/L		95	70 - 130	3	20
N-Propylbenzene	5.00	5.090		ug/L		102	70 - 130	1	20
p-Isopropyltoluene	5.00	4.674		ug/L		93	70 - 130	1	20
sec-Butylbenzene	5.00	4.840		ug/L		97	70 - 130	4	20
Styrene	5.00	4.840		ug/L		97	70 - 130	3	20
Tert-amyl methyl ether	5.00	4.855		ug/L		97	70 - 130	1	20
tert-Butyl alcohol	50.0	48.42		ug/L		97	70 - 130	2	20
tert-Butylbenzene	5.00	4.711		ug/L		94	70 - 130	1	20
Tert-butyl ethyl ether	5.00	5.102		ug/L		102	70 - 130	0	20
1,1,1,2-Tetrachloroethane	5.00	4.435		ug/L		89	70 - 130	2	20
1,1,2,2-Tetrachloroethane	5.00	5.016		ug/L		100	70 - 130	1	20
Tetrachloroethylene	5.00	3.829		ug/L		77	70 - 130	3	20

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-375592/4
Matrix: Water
Analysis Batch: 375592

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene			5.00	4.183		ug/L		84	70 - 130	0	20
trans-1,2-Dichloroethene			5.00	5.308		ug/L		106	70 - 130	0	20
1,2,3-Trichlorobenzene			5.00	4.209		ug/L		84	70 - 130	0	20
1,2,4-Trichlorobenzene			5.00	4.062		ug/L		81	70 - 130	7	20
1,1,1-Trichloroethane			5.00	4.695		ug/L		94	70 - 130	1	20
1,1,2-Trichloroethane			5.00	4.145		ug/L		83	70 - 130	6	20
Trichloroethene			5.00	4.747		ug/L		95	70 - 130	4	20
1,2,3-Trichloropropane			5.00	4.723		ug/L		94	70 - 130	1	20
1,2,4-Trimethylbenzene			5.00	4.911		ug/L		98	70 - 130	1	20
1,3,5-Trimethylbenzene			5.00	4.822		ug/L		96	70 - 130	0	20
Vinyl chloride			5.00	5.928		ug/L		119	70 - 130	0	20
m,p-Xylene			5.00	4.884		ug/L		98	70 - 130	2	20
o-Xylene			5.00	4.634		ug/L		93	70 - 130	2	20
Xylenes, Total			10.0	9.517		ug/L		95	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
Dibromofluoromethane (Surr)	*94*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*
Toluene-d8 (Surr)	*82*		*70 - 130*

QC Association Summary

Client: AECOM
Project/Site: 32785. Hampstead.EL

TestAmerica Job ID: 490-112875-1
SDG: 125 Hanover Pike, Hampstead, MD

GC/MS VOA

Analysis Batch: 375592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-112875-1	124 Hanover INF	Total/NA	Drinking Water	524.2	
490-112875-2	124 Hanover GAC-1	Total/NA	Drinking Water	524.2	
490-112875-3	124 Hanover GAC-2	Total/NA	Drinking Water	524.2	
490-112875-4	124 Hanover Final GAC	Total/NA	Drinking Water	524.2	
MB 490-375592/8	Method Blank	Total/NA	Water	524.2	
LCS 490-375592/3	Lab Control Sample	Total/NA	Water	524.2	
LCSD 490-375592/4	Lab Control Sample Dup	Total/NA	Water	524.2	

Lab Chronicle

Client: AECOM
Project/Site: 32785. Hampstead.EL

TestAmerica Job ID: 490-112875-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: 124 Hanover INF

Lab Sample ID: 490-112875-1
Date Collected: 09/27/16 15:43
Matrix: Drinking Water
Date Received: 09/29/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	10 mL	10 mL	375592	10/05/16 16:15	EML	TAL NSH

Client Sample ID: 124 Hanover GAC-1

Lab Sample ID: 490-112875-2
Date Collected: 09/27/16 15:40
Matrix: Drinking Water
Date Received: 09/29/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	10 mL	10 mL	375592	10/05/16 15:48	EML	TAL NSH

Client Sample ID: 124 Hanover GAC-2

Lab Sample ID: 490-112875-3
Date Collected: 09/27/16 15:38
Matrix: Drinking Water
Date Received: 09/29/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	10 mL	10 mL	375592	10/05/16 15:21	EML	TAL NSH

Client Sample ID: 124 Hanover Final GAC

Lab Sample ID: 490-112875-4
Date Collected: 09/27/16 15:35
Matrix: Drinking Water
Date Received: 09/29/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	10 mL	10 mL	375592	10/05/16 14:54	EML	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: AECOM
Project/Site: 32785. Hampstead.EL

TestAmerica Job ID: 490-112875-1
SDG: 125 Hanover Pike, Hampstead, MD

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	TAL NSH

Protocol References:

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: AECOM
Project/Site: 32785. Hampstead.EL

TestAmerica Job ID: 490-112875-1
SDG: 125 Hanover Pike, Hampstead, MD

Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Maryland	State Program	3	316	03-31-17

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FO 490-112875 Chain of Custody

Cooler Received/Opened On 9/29/2016 @1000

Time Samples Removed From Cooler 1745 Time Samples Placed In Storage 1856 (2 Hour Window)

1. Tracking # 5411 (last 4 digits, FedEx) Courier: __

   IR Gun ID 17610176_ pH Strip Lot HC581167 Chlorine Strip Lot 041416 F

2. Temperature of rep. sample or temp blank when opened: 0.7 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

   If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) D

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

   Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

   b. Was there any observable headspace present in any VOA vial? YES...NO...NA

PN 9/29/16

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) PN

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA

   b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) PN

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) PN

I certify that I attached a label with the unique LIMS number to each container (intial) PN

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 12/15/15

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

180325

BALTIMORE

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information				
Client Contact: Mr. John Canzeri	Sampler: M. Parsons	Lab PM: Salomon, Sherry	Carrier Tracking No(s):	COC No: 490-45557-12528.1
	Phone: 443-280-2673	E-Mail: sherry.salomon@testamericainc.com		Page: Page 1 of 1
Company: AECOM				Job #: 60333398
Address: 8000 Virginia Manor Road Suite 110	Due Date Requested:			
City: Beltsville	TAT Requested (days): STD			
State, Zip: MD, 20705				
Phone: 301-289-3805(Tel) 301-289-3901(Fax)	PO #: Purchase Order Requested			
Email: John.Canzeri@aecom.com	WO #: PENDING			
Project Name: 32785.Hampstead.EL	Project #: 49008398 (ENFOS)			
Site: 125 Hanover Pike, Hampstead, MD	ENFOS PROJECT#: 102537-FPPS			

Analysis Requested

Loc: 490
112875

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	524.2 - Revision 3 Standard List + Oxygenates	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
124 Hanover INF	9/27/16	1543	G	W	N	N	✓	3	
124 Hanover GAC-1		1540					✓	3	
124 Hanover GAC-2		1538					✓	3	
124 Hanover FINAL GAC		1535					✓	3	

Page 24 of 25
4 PM 9/29/16

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: 7-Eleven

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
M Parsons		AECOM		9/28/16 1133	TA
Relinquished by:	Date/Time: 9-28 2016/1548	Company: TestAmerica	Received by: 0.7	Date/Time: 9/29/16 1000	Company: TAN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

10/6/2016

Login Sample Receipt Checklist

Client: AECOM

Job Number: 490-112875-1
SDG Number: 125 Hanover Pike, Hampstead, MD

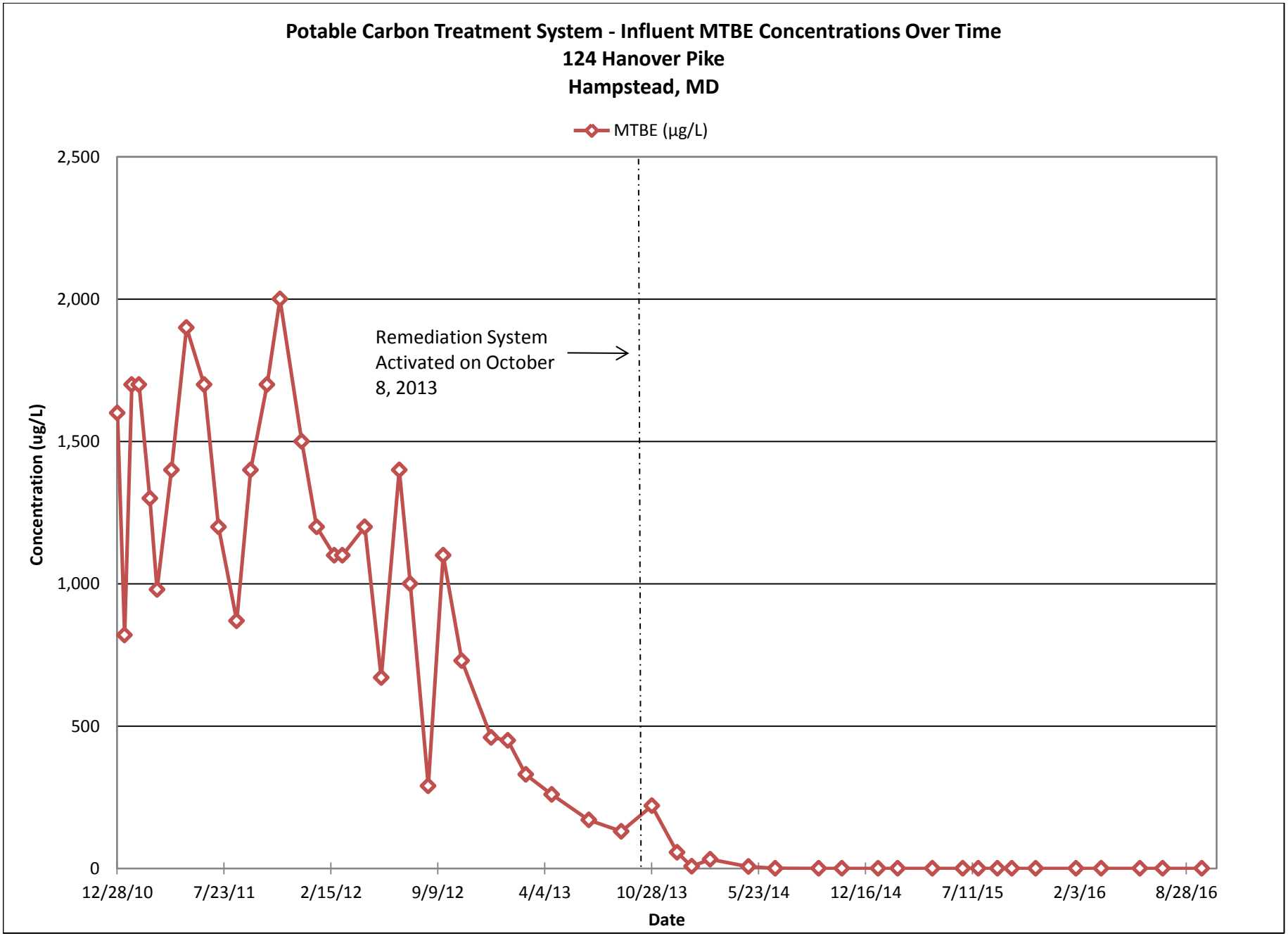
Login Number: 112875
List Number: 1
Creator: Ngo, Phiet

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

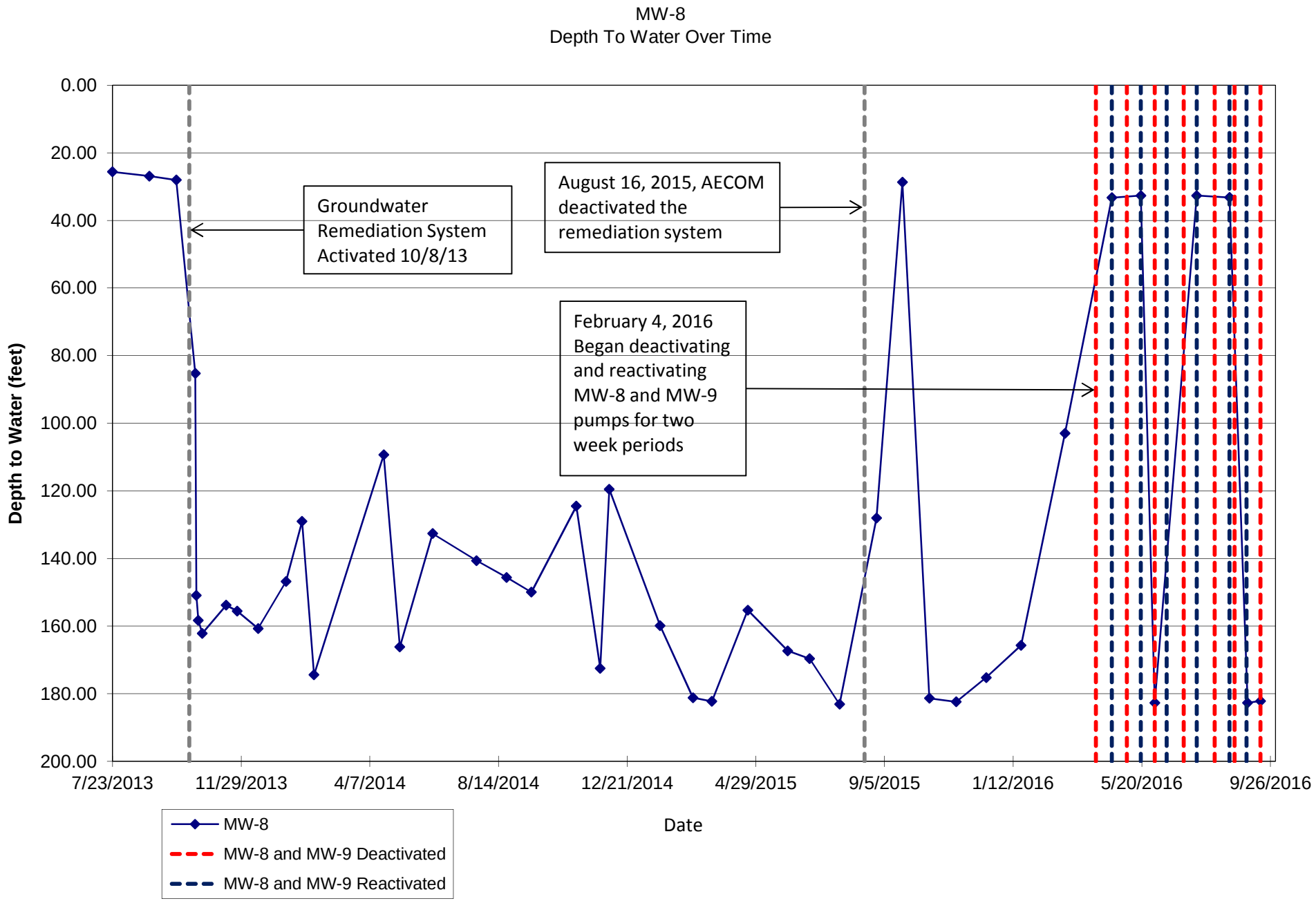
ATTACHMENT E

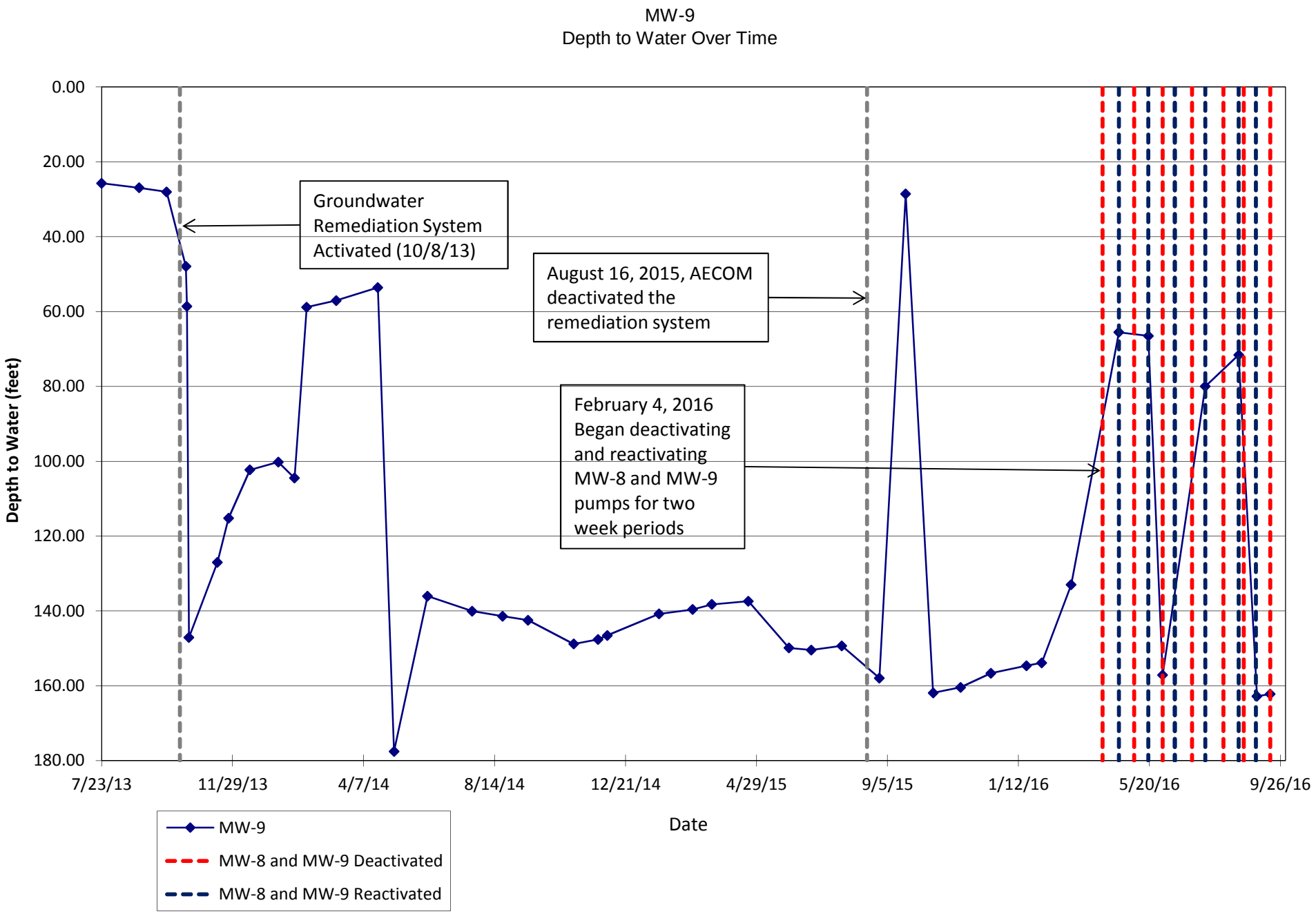
Residential Treatment System Influent MTBE Concentrations Over Time

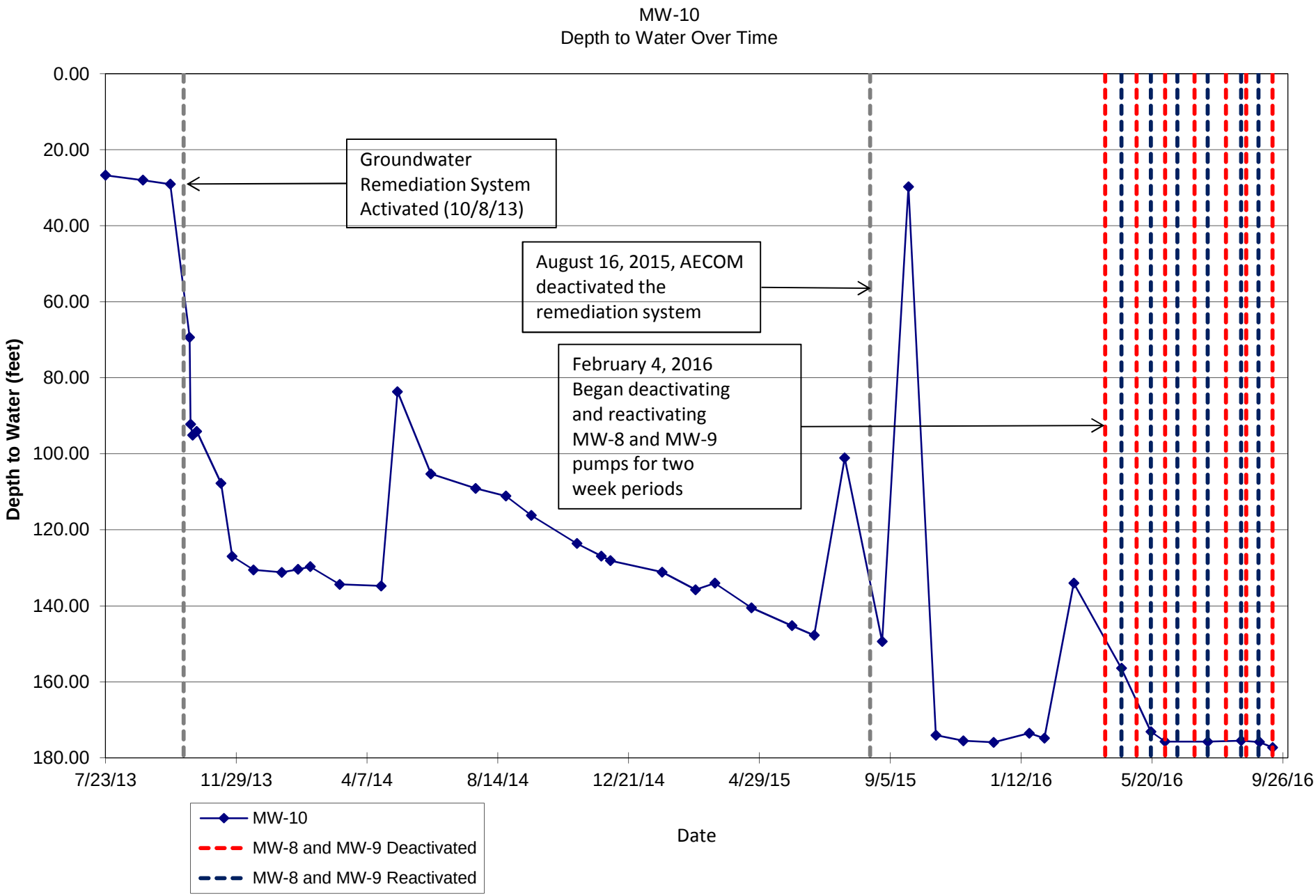

Potable Carbon Treatment System - Influent MTBE Concentrations Over Time
124 Hanover Pike
Hampstead, MD
MTBE (µg/L)
Remediation System Activated on October 8, 2013
Concentration (ug/L)
2,500
2,000
1,500
1,000
500
0
12/28/10
7/23/11
2/15/12
9/9/12
4/4/13
10/28/13
5/23/14
12/16/14
7/11/15
2/3/16
8/28/16
Date

ATTACHMENT F

Groundwater Drawdown Graphs (Pumping Wells)


MW-8
Depth To Water Over Time
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
7/23/2013
11/29/2013
4/7/2014
8/14/2014
12/21/2014
4/29/2015
9/5/2015
1/12/2016
5/20/2016
9/26/2016
Date
Groundwater Remediation System Activated 10/8/13
August 16, 2015, AECOM deactivated the remediation system
February 4, 2016 Began deactivating and reactivating MW-8 and MW-9 pumps for two week periods
MW-8
MW-8 and MW-9 Deactivated
MW-8 and MW-9 Reactivated


MW-9
Depth to Water Over Time
Depth to Water (feet)
0.00
20.00
40.00
60.00
80.00
100.00
120.00
140.00
160.00
180.00
7/23/13
11/29/13
4/7/14
8/14/14
12/21/14
4/29/15
9/5/15
1/12/16
5/20/16
9/26/16
Date
Groundwater Remediation System Activated (10/8/13)
August 16, 2015, AECOM deactivated the remediation system
February 4, 2016 Began deactivating and reactivating MW-8 and MW-9 pumps for two week periods
MW-9
MW-8 and MW-9 Deactivated
MW-8 and MW-9 Reactivated


MW-10
Depth to Water Over Time
Depth to Water (feet)
0.00
20.00
40.00
60.00
80.00
100.00
120.00
140.00
160.00
180.00
7/23/13
11/29/13
4/7/14
8/14/14
12/21/14
4/29/15
9/5/15
1/12/16
5/20/16
9/26/16
Date
Groundwater Remediation System Activated (10/8/13)
August 16, 2015, AECOM deactivated the remediation system
February 4, 2016 Began deactivating and reactivating MW-8 and MW-9 pumps for two week periods
MW-10
MW-8 and MW-9 Deactivated
MW-8 and MW-9 Reactivated

ATTACHMENT G

Groundwater Treatment System Laboratory Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-107022-1
TestAmerica SDG: 125 Hanover Pike, Hampstead,MD
Client Project/Site: 32785.Hampstead.EL (MD)

For:
AECOM
8000 Virginia Manor Road
Suite 110
Beltsville, Maryland 20705

Attn: Mr. John Canzeri

Sherry M Salomon

Authorized for release by:
7/11/2016 3:51:50 PM

Sherry Salomon, Manager of Project Management Assistants
(615)301-5033
sherry.salomon@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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QC Association 14
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Sample Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107022-1
SDG: 125 Hanover Pike, Hampstead,MD

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-107022-1	A/S Inf	Water	07/01/16 13:25	07/02/16 09:45
490-107022-2	A/S Eff	Water	07/01/16 13:15	07/02/16 09:45
490-107022-3	Gac 1 Eff	Water	07/01/16 13:05	07/02/16 09:45
490-107022-4	Final Eff	Water	07/01/16 13:00	07/02/16 09:45

Case Narrative

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107022-1
SDG: 125 Hanover Pike, Hampstead,MD

Job ID: 490-107022-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-107022-1

Comments
No additional comments.

Receipt
The samples were received on 7/2/2016 at 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.7º C and 1.4º C.

GC/MS VOA
Method(s) 8260B: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for analytical batch 353004 recovered outside control limits for the following analytes: Benzene, Tert-amyl methyl ether, Isopropyl ether, and Tert-butyl ethyl ether. The individual LCS/LCSD analyte recoveries, however, were within acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107022-1
SDG: 125 Hanover Pike, Hampstead,MD

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107022-1
SDG: 125 Hanover Pike, Hampstead,MD

Client Sample ID: A/S Inf

Date Collected: 07/01/16 13:25
Date Received: 07/02/16 09:45

Lab Sample ID: 490-107022-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	*	1.00		ug/L			07/06/16 04:51	1
Diisopropyl ether	ND	*	2.00		ug/L			07/06/16 04:51	1
Ethylbenzene	ND		1.00		ug/L			07/06/16 04:51	1
Ethyl tert-butyl ether	ND	*	1.00		ug/L			07/06/16 04:51	1
Methyl tert-butyl ether	**1.34**		1.00		ug/L			07/06/16 04:51	1
Tert-amyl methyl ether	ND	*	1.00		ug/L			07/06/16 04:51	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			07/06/16 04:51	1
Toluene	ND		1.00		ug/L			07/06/16 04:51	1
Xylenes, Total	ND		3.00		ug/L			07/06/16 04:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*		*07/06/16 04:51*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*07/06/16 04:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*70 - 130*		*07/06/16 04:51*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*07/06/16 04:51*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			07/07/16 03:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*97*		*50 - 150*		*07/07/16 03:39*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107022-1
SDG: 125 Hanover Pike, Hampstead,MD

Client Sample ID: A/S Eff

Date Collected: 07/01/16 13:15
Date Received: 07/02/16 09:45

Lab Sample ID: 490-107022-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	*	1.00		ug/L			07/06/16 03:29	1
Diisopropyl ether	ND	*	2.00		ug/L			07/06/16 03:29	1
Ethylbenzene	ND		1.00		ug/L			07/06/16 03:29	1
Ethyl tert-butyl ether	ND	*	1.00		ug/L			07/06/16 03:29	1
Methyl tert-butyl ether	ND		1.00		ug/L			07/06/16 03:29	1
Tert-amyl methyl ether	ND	*	1.00		ug/L			07/06/16 03:29	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			07/06/16 03:29	1
Toluene	ND		1.00		ug/L			07/06/16 03:29	1
Xylenes, Total	ND		3.00		ug/L			07/06/16 03:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*07/06/16 03:29*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*07/06/16 03:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*70 - 130*		*07/06/16 03:29*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*07/06/16 03:29*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			07/06/16 23:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*96*		*50 - 150*		*07/06/16 23:32*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107022-1
SDG: 125 Hanover Pike, Hampstead,MD

Client Sample ID: Gac 1 Eff

Lab Sample ID: 490-107022-3

Date Collected: 07/01/16 13:05
Matrix: Water
Date Received: 07/02/16 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	*	1.00		ug/L			07/06/16 03:56	1
Diisopropyl ether	ND	*	2.00		ug/L			07/06/16 03:56	1
Ethylbenzene	ND		1.00		ug/L			07/06/16 03:56	1
Ethyl tert-butyl ether	ND	*	1.00		ug/L			07/06/16 03:56	1
Methyl tert-butyl ether	ND		1.00		ug/L			07/06/16 03:56	1
Tert-amyl methyl ether	ND	*	1.00		ug/L			07/06/16 03:56	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			07/06/16 03:56	1
Toluene	ND		1.00		ug/L			07/06/16 03:56	1
Xylenes, Total	ND		3.00		ug/L			07/06/16 03:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*		*07/06/16 03:56*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*07/06/16 03:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*70 - 130*		*07/06/16 03:56*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*07/06/16 03:56*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			07/07/16 04:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*97*		*50 - 150*		*07/07/16 04:10*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107022-1
SDG: 125 Hanover Pike, Hampstead,MD

Client Sample ID: Final Eff

Date Collected: 07/01/16 13:00
Date Received: 07/02/16 09:45

Lab Sample ID: 490-107022-4

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	*	1.00		ug/L			07/06/16 04:24	1
Diisopropyl ether	ND	*	2.00		ug/L			07/06/16 04:24	1
Ethylbenzene	ND		1.00		ug/L			07/06/16 04:24	1
Ethyl tert-butyl ether	ND	*	1.00		ug/L			07/06/16 04:24	1
Methyl tert-butyl ether	ND		1.00		ug/L			07/06/16 04:24	1
Tert-amyl methyl ether	ND	*	1.00		ug/L			07/06/16 04:24	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			07/06/16 04:24	1
Toluene	ND		1.00		ug/L			07/06/16 04:24	1
Xylenes, Total	ND		3.00		ug/L			07/06/16 04:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*		*07/06/16 04:24*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*07/06/16 04:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 130*		*07/06/16 04:24*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*07/06/16 04:24*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			07/07/16 04:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*96*		*50 - 150*		*07/07/16 04:41*	*1*

QC Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107022-1
SDG: 125 Hanover Pike, Hampstead,MD

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-353004/6
Matrix: Water
Analysis Batch: 353004

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			07/06/16 01:40	1
Diisopropyl ether	ND		2.00		ug/L			07/06/16 01:40	1
Ethylbenzene	ND		1.00		ug/L			07/06/16 01:40	1
Ethyl tert-butyl ether	ND		1.00		ug/L			07/06/16 01:40	1
Methyl tert-butyl ether	ND		1.00		ug/L			07/06/16 01:40	1
Tert-amyl methyl ether	ND		1.00		ug/L			07/06/16 01:40	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			07/06/16 01:40	1
Toluene	ND		1.00		ug/L			07/06/16 01:40	1
Xylenes, Total	ND		3.00		ug/L			07/06/16 01:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*07/06/16 01:40*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*07/06/16 01:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*		*07/06/16 01:40*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*07/06/16 01:40*	*1*

Lab Sample ID: LCS 490-353004/3
Matrix: Water
Analysis Batch: 353004

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	49.88		ug/L		100	70 - 130
Diisopropyl ether	50.0	33.72		ug/L		67	66 - 142
Ethylbenzene	50.0	52.50		ug/L		105	70 - 130
Ethyl tert-butyl ether	50.0	37.75		ug/L		75	63 - 135
Methyl tert-butyl ether	50.0	46.10		ug/L		92	70 - 130
Tert-amyl methyl ether	50.0	49.95		ug/L		100	63 - 135
tert-Butyl alcohol (TBA)	500	421.9		ug/L		84	12 - 150
Toluene	50.0	53.58		ug/L		107	70 - 130
Xylenes, Total	150	145.2		ug/L		97	70 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*
Dibromofluoromethane (Surr)	*90*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*83*		*70 - 130*
Toluene-d8 (Surr)	*89*		*70 - 130*

Lab Sample ID: LCSD 490-353004/4
Matrix: Water
Analysis Batch: 353004

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	64.56	*	ug/L		129	70 - 130	26	12
Diisopropyl ether	50.0	39.02	*	ug/L		78	66 - 142	15	14
Ethylbenzene	50.0	55.11		ug/L		110	70 - 130	5	12
Ethyl tert-butyl ether	50.0	50.90	*	ug/L		102	63 - 135	30	15
Methyl tert-butyl ether	50.0	51.74		ug/L		103	70 - 130	12	16

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-353004/4
Matrix: Water
Analysis Batch: 353004

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tert-amyl methyl ether			50.0	59.51	*	ug/L		119	63 - 135	17	15
tert-Butyl alcohol (TBA)			500	543.4		ug/L		109	12 - 150	25	46
Toluene			50.0	56.89		ug/L		114	70 - 130	6	13
Xylenes, Total			150	157.0		ug/L		105	70 - 132	8	11

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: 490-107022-2 MS
Matrix: Water
Analysis Batch: 353004

Client Sample ID: A/S Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	ND	*	50.0	58.56		ug/L		117	55 - 147		
Diisopropyl ether	ND	*	50.0	40.91		ug/L		82	56 - 142		
Ethylbenzene	ND		50.0	56.63		ug/L		113	65 - 139		
Ethyl tert-butyl ether	ND	*	50.0	46.78		ug/L		94	53 - 138		
Methyl tert-butyl ether	ND		50.0	53.62		ug/L		107	55 - 141		
Tert-amyl methyl ether	ND	*	50.0	53.13		ug/L		106	47 - 148		
tert-Butyl alcohol (TBA)	ND		500	438.1		ug/L		88	10 - 150		
Toluene	ND		50.0	54.93		ug/L		110	64 - 136		
Xylenes, Total	ND		150	159.1		ug/L		106	69 - 132		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 130*
Toluene-d8 (Surr)	*91*		*70 - 130*

Lab Sample ID: 490-107022-2 MSD
Matrix: Water
Analysis Batch: 353004

Client Sample ID: A/S Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND	*	50.0	50.97		ug/L		102	55 - 147	14	22
Diisopropyl ether	ND	*	50.0	36.58		ug/L		73	56 - 142	11	22
Ethylbenzene	ND		50.0	49.98		ug/L		100	65 - 139	12	18
Ethyl tert-butyl ether	ND	*	50.0	40.70		ug/L		81	53 - 138	14	22
Methyl tert-butyl ether	ND		50.0	48.50		ug/L		97	55 - 141	10	24
Tert-amyl methyl ether	ND	*	50.0	47.96		ug/L		96	47 - 148	10	23
tert-Butyl alcohol (TBA)	ND		500	485.1		ug/L		97	10 - 150	10	47
Toluene	ND		50.0	49.58		ug/L		99	64 - 136	10	18
Xylenes, Total	ND		150	142.8		ug/L		95	69 - 132	11	17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-107022-2 MSD
Matrix: Water
Analysis Batch: 353004

Client Sample ID: A/S Eff
Prep Type: Total/NA

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*
Toluene-d8 (Surr)	*93*		*70 - 130*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Lab Sample ID: MB 490-353172/18
Matrix: Water
Analysis Batch: 353172

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			07/06/16 22:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*97*		*50 - 150*		*07/06/16 22:30*	*1*

Lab Sample ID: MB 490-353172/7
Matrix: Water
Analysis Batch: 353172

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			07/06/16 16:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*96*		*50 - 150*		*07/06/16 16:50*	*1*

Lab Sample ID: LCS 490-353172/16
Matrix: Water
Analysis Batch: 353172

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]			1000	1086		ug/L		109	66 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*132*		*50 - 150*

Lab Sample ID: LCSD 490-353172/17
Matrix: Water
Analysis Batch: 353172

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]			1000	1060		ug/L		106	66 - 140	2	42

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) (Continued)

Lab Sample ID: LCSD 490-353172/17
Matrix: Water
Analysis Batch: 353172

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*131*		*50 - 150*

Lab Sample ID: 490-107022-2 MS
Matrix: Water
Analysis Batch: 353172

Client Sample ID: A/S Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]	ND		1000	982.3		ug/L		98	33 - 175		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*123*		*50 - 150*

Lab Sample ID: 490-107022-2 MSD
Matrix: Water
Analysis Batch: 353172

Client Sample ID: A/S Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		1000	1096		ug/L		110	33 - 175	11	42

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*125*		*50 - 150*

QC Association Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107022-1
SDG: 125 Hanover Pike, Hampstead,MD

GC/MS VOA

Analysis Batch: 353004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-107022-1	A/S Inf	Total/NA	Water	8260B	
490-107022-2	A/S Eff	Total/NA	Water	8260B	
490-107022-2 MS	A/S Eff	Total/NA	Water	8260B	
490-107022-2 MSD	A/S Eff	Total/NA	Water	8260B	
490-107022-3	Gac 1 Eff	Total/NA	Water	8260B	
490-107022-4	Final Eff	Total/NA	Water	8260B	
LCS 490-353004/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-353004/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-353004/6	Method Blank	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 353172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-107022-1	A/S Inf	Total/NA	Water	8015C	
490-107022-2	A/S Eff	Total/NA	Water	8015C	
490-107022-2 MS	A/S Eff	Total/NA	Water	8015C	
490-107022-2 MSD	A/S Eff	Total/NA	Water	8015C	
490-107022-3	Gac 1 Eff	Total/NA	Water	8015C	
490-107022-4	Final Eff	Total/NA	Water	8015C	
LCS 490-353172/16	Lab Control Sample	Total/NA	Water	8015C	
LCSD 490-353172/17	Lab Control Sample Dup	Total/NA	Water	8015C	
MB 490-353172/18	Method Blank	Total/NA	Water	8015C	
MB 490-353172/7	Method Blank	Total/NA	Water	8015C	

Lab Chronicle

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107022-1
SDG: 125 Hanover Pike, Hampstead,MD

Client Sample ID: A/S Inf
Date Collected: 07/01/16 13:25
Date Received: 07/02/16 09:45

Lab Sample ID: 490-107022-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	353004	07/06/16 04:51	SLM	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	353172	07/07/16 03:39	GWM	TAL NSH

Client Sample ID: A/S Eff
Date Collected: 07/01/16 13:15
Date Received: 07/02/16 09:45

Lab Sample ID: 490-107022-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	353004	07/06/16 03:29	SLM	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	353172	07/06/16 23:32	GWM	TAL NSH

Client Sample ID: Gac 1 Eff
Date Collected: 07/01/16 13:05
Date Received: 07/02/16 09:45

Lab Sample ID: 490-107022-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	353004	07/06/16 03:56	SLM	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	353172	07/07/16 04:10	GWM	TAL NSH

Client Sample ID: Final Eff
Date Collected: 07/01/16 13:00
Date Received: 07/02/16 09:45

Lab Sample ID: 490-107022-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	353004	07/06/16 04:24	SLM	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	353172	07/07/16 04:41	GWM	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107022-1
SDG: 125 Hanover Pike, Hampstead,MD

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
8015C	Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	SW846	TAL NSH

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107022-1
SDG: 125 Hanover Pike, Hampstead,MD

Laboratory: TestAmerica Nashville

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Maryland	State Program	3	316	03-31-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8015C		Water	Gasoline Range Organics [C6 - C10]
8260B		Water	Benzene
8260B		Water	Diisopropyl ether
8260B		Water	Ethyl tert-butyl ether
8260B		Water	Ethylbenzene
8260B		Water	Methyl tert-butyl ether
8260B		Water	Tert-amyl methyl ether
8260B		Water	tert-Butyl alcohol (TBA)
8260B		Water	Toluene
8260B		Water	Xylenes, Total

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

490-107022 Chain of Custody

Cooler Received/Opened On 7/2/2016 @ 0945

Time Samples Removed From Cooler_____ Time Samples Placed In Storage_____ (2 Hour Window)

1. Tracking # 1414 (last 4 digits, FedEx) Courier: _FedEx_

   IR Gun ID 17960353 pH Strip Lot HC564992 Chlorine Strip Lot 012516A

2. Temperature of rep. sample or temp blank when opened: 0.7 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

   If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

   Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

   b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) _____

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

   b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) _____

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#_____

BIS = Broken in shipment

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

490-107022

Cooler Received/Opened On 7/2/2016 @ 0945

Time Samples Removed From Cooler_____ Time Samples Placed In Storage_____ (2 Hour Window)

1. Tracking # 1561 (last 4 digits, FedEx) Courier: _FedEx_

   IR Gun ID 17960353 pH Strip Lot HC564992 Chlorine Strip Lot 012516A

2. Temperature of rep. sample or temp blank when opened: 1.4 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

   If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) SH

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

   Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

   b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) SH

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

   b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) SH

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) SH

I certify that I attached a label with the unique LIMS number to each container (intial) SH

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#_____

BIS = Broken in shipment

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

180325

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

BALTIMORE

7/11/2016

Client Information	Sampler: Rick Barrow	Lab PM: Salomon, Sherry	Carrier Tracking No(s):	COC No: 490-49470-16119.1
Client Contact: Mr. John Canzeri	Phone: 240 994 8594	E-Mail: sherry.salomon@testamericainc.com		Page: Page 1 of 1
Company: AECOM				Job #:
Address: 8000 Virginia Manor Road Suite 110	Due Date Requested:			
City: Beltsville	TAT Requested (days):			
State, Zip: MD, 20705				
Phone: 301-289-3802(Tel) 301-289-3901(Fax)	PO #: WO245818			
Email: John.Canzeri@aecom.com	WO #:			
Project Name: 32785.Hampstead.EL(MD)	Project #: 49008398			
Site: 125 Hanover Pike, Hampstead, MD	SSOW#:			

Analysis Requested

Loc: 490
107022

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2SO3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - ph 4-5
Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B BTEX + Oxys	8015C_GRO	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	A		
A/S Inf	7/1/16	13:25	G	Water	N	X	✓	✓	6	
A/S Eff		13:15		Water			✓	✓	6	
Gac 1 Eff		13:05		Water			✓	✓	6	
Final Eff		13:00		Water			✓	✓	6	
				Water						
				Water						
				Water						
				Water						
				Water						

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown* ☐ *Radiological*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	7-1-2016 / 1432			7-1-2016 / 1432	TestAmerica
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				7/1/16 @ 0945	TAN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.7/1.4

Login Sample Receipt Checklist

Client: AECOM

Job Number: 490-107022-1
SDG Number: 125 Hanover Pike, Hampstead,MD

Login Number: 107022
List Number: 1
Creator: Vest, Laura E

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-107841-1
TestAmerica SDG: 125 Hanover Pike, Hampstead, MD
Client Project/Site: 32785.Hampstead.EL (MD)

For:
AECOM
8000 Virginia Manor Road
Suite 110
Beltsville, Maryland 20705

Attn: Mr. John Canzeri

Sherry M Salomon

Authorized for release by:
7/25/2016 12:23:23 PM

Sherry Salomon, Manager of Project Management Assistants
(615)301-5033
sherry.salomon@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107841-1
SDG: 125 Hanover Pike, Hampstead, MD

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-107841-1	A/S INF	Water	07/14/16 14:42	07/16/16 09:45
490-107841-2	A/S ENF	Water	07/14/16 14:39	07/16/16 09:45
490-107841-3	GAC-1 EFF	Water	07/14/16 14:36	07/16/16 09:45
490-107841-4	GAC-2 FINAL	Water	07/14/16 14:32	07/16/16 09:45

Case Narrative

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107841-1
SDG: 125 Hanover Pike, Hampstead, MD

Job ID: 490-107841-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-107841-1

Comments
No additional comments.

Receipt
The samples were received on 7/16/2016 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9º C.

Receipt Exceptions
No collection times were written on the labels of the following samples: A/S INF (490-107841-1), A/S ENF (490-107841-2), GAC-1 EFF (490-107841-3) and GAC-2 FINAL (490-107841-4). The samples were logged per the times listed on the COC.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107841-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: A/S INF

Date Collected: 07/14/16 14:42
Date Received: 07/16/16 09:45

Lab Sample ID: 490-107841-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			07/19/16 06:27	1
Diisopropyl ether	ND		2.00		ug/L			07/19/16 06:27	1
Ethylbenzene	ND		1.00		ug/L			07/19/16 06:27	1
Ethyl tert-butyl ether	ND		1.00		ug/L			07/19/16 06:27	1
Methyl tert-butyl ether	ND		1.00		ug/L			07/19/16 06:27	1
Tert-amyl methyl ether	ND		1.00		ug/L			07/19/16 06:27	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			07/19/16 06:27	1
Toluene	ND		1.00		ug/L			07/19/16 06:27	1
Xylenes, Total	ND		3.00		ug/L			07/19/16 06:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*07/19/16 06:27*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*07/19/16 06:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*07/19/16 06:27*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*07/19/16 06:27*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			07/20/16 08:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*99*		*50 - 150*		*07/20/16 08:03*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107841-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: A/S ENF

Date Collected: 07/14/16 14:39
Date Received: 07/16/16 09:45

Lab Sample ID: 490-107841-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			07/19/16 05:59	1
Diisopropyl ether	ND		2.00		ug/L			07/19/16 05:59	1
Ethylbenzene	ND		1.00		ug/L			07/19/16 05:59	1
Ethyl tert-butyl ether	ND		1.00		ug/L			07/19/16 05:59	1
Methyl tert-butyl ether	ND		1.00		ug/L			07/19/16 05:59	1
Tert-amyl methyl ether	ND		1.00		ug/L			07/19/16 05:59	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			07/19/16 05:59	1
Toluene	ND		1.00		ug/L			07/19/16 05:59	1
Xylenes, Total	ND		3.00		ug/L			07/19/16 05:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*07/19/16 05:59*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*07/19/16 05:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*07/19/16 05:59*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*07/19/16 05:59*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			07/20/16 10:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*98*		*50 - 150*		*07/20/16 10:45*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107841-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: GAC-1 EFF

Lab Sample ID: 490-107841-3

Date Collected: 07/14/16 14:36
Matrix: Water
Date Received: 07/16/16 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			07/19/16 05:30	1
Diisopropyl ether	ND		2.00		ug/L			07/19/16 05:30	1
Ethylbenzene	ND		1.00		ug/L			07/19/16 05:30	1
Ethyl tert-butyl ether	ND		1.00		ug/L			07/19/16 05:30	1
Methyl tert-butyl ether	ND		1.00		ug/L			07/19/16 05:30	1
Tert-amyl methyl ether	ND		1.00		ug/L			07/19/16 05:30	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			07/19/16 05:30	1
Toluene	ND		1.00		ug/L			07/19/16 05:30	1
Xylenes, Total	ND		3.00		ug/L			07/19/16 05:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*07/19/16 05:30*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*07/19/16 05:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*07/19/16 05:30*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*07/19/16 05:30*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			07/20/16 11:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*97*		*50 - 150*		*07/20/16 11:16*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107841-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: GAC-2 FINAL

Lab Sample ID: 490-107841-4

Date Collected: 07/14/16 14:32
Date Received: 07/16/16 09:45

Matrix: Water

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			07/19/16 18:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*93*		*50 - 150*		*07/19/16 18:10*	*1*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			07/19/16 18:10	1
Ethylbenzene	ND		1.00		ug/L			07/19/16 18:10	1
Methyl tert-butyl ether	ND		1.00		ug/L			07/19/16 18:10	1
Toluene	ND		1.00		ug/L			07/19/16 18:10	1
Xylenes, Total	ND		3.00		ug/L			07/19/16 18:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*81*		*50 - 150*		*07/19/16 18:10*	*1*

QC Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107841-1
SDG: 125 Hanover Pike, Hampstead, MD

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-356048/7
Matrix: Water
Analysis Batch: 356048

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			07/19/16 04:04	1
Diisopropyl ether	ND		2.00		ug/L			07/19/16 04:04	1
Ethylbenzene	ND		1.00		ug/L			07/19/16 04:04	1
Ethyl tert-butyl ether	ND		1.00		ug/L			07/19/16 04:04	1
Methyl tert-butyl ether	ND		1.00		ug/L			07/19/16 04:04	1
Tert-amyl methyl ether	ND		1.00		ug/L			07/19/16 04:04	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			07/19/16 04:04	1
Toluene	ND		1.00		ug/L			07/19/16 04:04	1
Xylenes, Total	ND		3.00		ug/L			07/19/16 04:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*07/19/16 04:04*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*07/19/16 04:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*07/19/16 04:04*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*07/19/16 04:04*	*1*

Lab Sample ID: LCS 490-356048/4
Matrix: Water
Analysis Batch: 356048

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	20.12		ug/L		101	70 - 130
Diisopropyl ether	20.0	19.77		ug/L		99	66 - 142
Ethylbenzene	20.0	18.99		ug/L		95	70 - 130
Ethyl tert-butyl ether	20.0	19.01		ug/L		95	63 - 135
Methyl tert-butyl ether	20.0	17.98		ug/L		90	70 - 130
Tert-amyl methyl ether	20.0	18.38		ug/L		92	63 - 135
tert-Butyl alcohol (TBA)	200	199.0		ug/L		99	12 - 150
Toluene	20.0	19.41		ug/L		97	70 - 130
Xylenes, Total	40.0	38.76		ug/L		97	70 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: 490-107841-3 MS
Matrix: Water
Analysis Batch: 356048

Client Sample ID: GAC-1 EFF
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		20.0	22.17		ug/L		111	55 - 147
Diisopropyl ether	ND		20.0	21.76		ug/L		109	56 - 142
Ethylbenzene	ND		20.0	20.77		ug/L		104	65 - 139
Ethyl tert-butyl ether	ND		20.0	20.20		ug/L		101	53 - 138
Methyl tert-butyl ether	ND		20.0	19.61		ug/L		98	55 - 141

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-107841-3 MS
Matrix: Water
Analysis Batch: 356048

Client Sample ID: GAC-1 EFF
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Tert-amyl methyl ether	ND		20.0	21.01		ug/L		105	47 - 148
tert-Butyl alcohol (TBA)	ND		200	155.7		ug/L		78	10 - 150
Toluene	ND		20.0	21.70		ug/L		109	64 - 136
Xylenes, Total	ND		40.0	42.26		ug/L		106	69 - 132

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
Dibromofluoromethane (Surr)	*96*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: 490-107841-3 MSD
Matrix: Water
Analysis Batch: 356048

Client Sample ID: GAC-1 EFF
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		20.0	22.35		ug/L		112	55 - 147	1	22
Diisopropyl ether	ND		20.0	21.72		ug/L		109	56 - 142	0	22
Ethylbenzene	ND		20.0	20.93		ug/L		105	65 - 139	1	18
Ethyl tert-butyl ether	ND		20.0	20.39		ug/L		102	53 - 138	1	22
Methyl tert-butyl ether	ND		20.0	20.12		ug/L		101	55 - 141	3	24
Tert-amyl methyl ether	ND		20.0	20.59		ug/L		103	47 - 148	2	23
tert-Butyl alcohol (TBA)	ND		200	184.1		ug/L		92	10 - 150	17	47
Toluene	ND		20.0	21.51		ug/L		108	64 - 136	1	18
Xylenes, Total	ND		40.0	42.43		ug/L		106	69 - 132	0	17

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
Dibromofluoromethane (Surr)	*94*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Lab Sample ID: MB 490-356118/8
Matrix: Water
Analysis Batch: 356118

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			07/19/16 13:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*94*		*50 - 150*		*07/19/16 13:44*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) (Continued)

Lab Sample ID: LCS 490-356118/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 356118

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]			1000	1085		ug/L		108	66 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*129*		*50 - 150*

Lab Sample ID: LCSD 490-356118/6 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 356118

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]			1000	1043		ug/L		104	66 - 140	4	42

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*115*		*50 - 150*

Lab Sample ID: 490-107841-3 MS — **Client Sample ID: GAC-1 EFF**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 356118

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]	ND		1000	1046		ug/L		105	33 - 175		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*120*		*50 - 150*

Lab Sample ID: 490-107841-3 MSD — **Client Sample ID: GAC-1 EFF**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 356118

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		1000	985.3		ug/L		99	33 - 175	6	42

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*118*		*50 - 150*

QC Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107841-1
SDG: 125 Hanover Pike, Hampstead, MD

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 490-356120/8
Matrix: Water
Analysis Batch: 356120

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			07/19/16 13:44	1
Ethylbenzene	ND		1.00		ug/L			07/19/16 13:44	1
Methyl tert-butyl ether	ND		1.00		ug/L			07/19/16 13:44	1
Toluene	ND		1.00		ug/L			07/19/16 13:44	1
Xylenes, Total	ND		3.00		ug/L			07/19/16 13:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*81*		*50 - 150*		*07/19/16 13:44*	*1*

Lab Sample ID: LCS 490-356120/3
Matrix: Water
Analysis Batch: 356120

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	100	98.72		ug/L		99	69 - 129
Ethylbenzene	100	100.2		ug/L		100	70 - 130
Methyl tert-butyl ether	100	89.00		ug/L		89	57 - 138
Toluene	100	98.31		ug/L		98	66 - 127
Xylenes, Total	300	292.2		ug/L		97	69 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*86*		*50 - 150*

Lab Sample ID: LCSD 490-356120/24
Matrix: Water
Analysis Batch: 356120

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	100	95.88		ug/L		96	69 - 129	3	33
Ethylbenzene	100	97.21		ug/L		97	70 - 130	3	35
Methyl tert-butyl ether	100	86.68		ug/L		87	57 - 138	3	40
Toluene	100	95.57		ug/L		96	66 - 127	3	34
Xylenes, Total	300	285.1		ug/L		95	69 - 123	2	37

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*85*		*50 - 150*

Lab Sample ID: 490-107863-B-4 MS
Matrix: Water
Analysis Batch: 356120

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		50.0	44.84		ug/L		90	29 - 176
Ethylbenzene	ND		50.0	45.67		ug/L		91	30 - 170
Methyl tert-butyl ether	ND		50.0	41.73		ug/L		83	23 - 165
Toluene	ND		50.0	44.65		ug/L		89	30 - 167
Xylenes, Total	ND		150	134.3		ug/L		90	28 - 164

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 490-107863-B-4 MS
Matrix: Water
Analysis Batch: 356120

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*84*		*50 - 150*

Lab Sample ID: 490-107863-C-4 MSD
Matrix: Water
Analysis Batch: 356120

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		50.0	46.39		ug/L		93	29 - 176	3	33
Ethylbenzene	ND		50.0	47.19		ug/L		94	30 - 170	3	35
Methyl tert-butyl ether	ND		50.0	43.51		ug/L		87	23 - 165	4	40
Toluene	ND		50.0	46.17		ug/L		92	30 - 167	3	34
Xylenes, Total	ND		150	138.6		ug/L		92	28 - 164	3	37

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*85*		*50 - 150*

QC Association Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107841-1
SDG: 125 Hanover Pike, Hampstead, MD

GC/MS VOA

Analysis Batch: 356048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-107841-1	A/S INF	Total/NA	Water	8260B	
490-107841-2	A/S ENF	Total/NA	Water	8260B	
490-107841-3	GAC-1 EFF	Total/NA	Water	8260B	
MB 490-356048/7	Method Blank	Total/NA	Water	8260B	
LCS 490-356048/4	Lab Control Sample	Total/NA	Water	8260B	
490-107841-3 MS	GAC-1 EFF	Total/NA	Water	8260B	
490-107841-3 MSD	GAC-1 EFF	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 356118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-107841-1	A/S INF	Total/NA	Water	8015C	
490-107841-2	A/S ENF	Total/NA	Water	8015C	
490-107841-3	GAC-1 EFF	Total/NA	Water	8015C	
490-107841-4	GAC-2 FINAL	Total/NA	Water	8015C	
MB 490-356118/8	Method Blank	Total/NA	Water	8015C	
LCS 490-356118/5	Lab Control Sample	Total/NA	Water	8015C	
LCSD 490-356118/6	Lab Control Sample Dup	Total/NA	Water	8015C	
490-107841-3 MS	GAC-1 EFF	Total/NA	Water	8015C	
490-107841-3 MSD	GAC-1 EFF	Total/NA	Water	8015C	

Analysis Batch: 356120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-107841-4	GAC-2 FINAL	Total/NA	Water	8021B	
MB 490-356120/8	Method Blank	Total/NA	Water	8021B	
LCS 490-356120/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 490-356120/24	Lab Control Sample Dup	Total/NA	Water	8021B	
490-107863-B-4 MS	Matrix Spike	Total/NA	Water	8021B	
490-107863-C-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8021B	

Lab Chronicle

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107841-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: A/S INF — Lab Sample ID: 490-107841-1

Date Collected: 07/14/16 14:42 — **Matrix: Water**
Date Received: 07/16/16 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	356048	07/19/16 06:27	NC	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	356118	07/20/16 08:03	GWM	TAL NSH

Client Sample ID: A/S ENF — Lab Sample ID: 490-107841-2

Date Collected: 07/14/16 14:39 — **Matrix: Water**
Date Received: 07/16/16 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	356048	07/19/16 05:59	NC	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	356118	07/20/16 10:45	GWM	TAL NSH

Client Sample ID: GAC-1 EFF — Lab Sample ID: 490-107841-3

Date Collected: 07/14/16 14:36 — **Matrix: Water**
Date Received: 07/16/16 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	356048	07/19/16 05:30	NC	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	356118	07/20/16 11:16	GWM	TAL NSH

Client Sample ID: GAC-2 FINAL — Lab Sample ID: 490-107841-4

Date Collected: 07/14/16 14:32 — **Matrix: Water**
Date Received: 07/16/16 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015C		1	5 mL	5 mL	356118	07/19/16 18:10	GWM	TAL NSH
Total/NA	Analysis	8021B		1	5 mL	5 mL	356120	07/19/16 18:10	A1B	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107841-1
SDG: 125 Hanover Pike, Hampstead, MD

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
8015C	Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	SW846	TAL NSH
8021B	Volatile Organic Compounds (GC)	SW846	TAL NSH

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-107841-1
SDG: 125 Hanover Pike, Hampstead, MD

Laboratory: TestAmerica Nashville

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Maryland	State Program	3	316	03-31-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8015C		Water	Gasoline Range Organics [C6 - C10]
8021B		Water	Benzene
8021B		Water	Ethylbenzene
8021B		Water	Methyl tert-butyl ether
8021B		Water	Toluene
8021B		Water	Xylenes, Total
8260B		Water	Benzene
8260B		Water	Diisopropyl ether
8260B		Water	Ethyl tert-butyl ether
8260B		Water	Ethylbenzene
8260B		Water	Methyl tert-butyl ether
8260B		Water	Tert-amyl methyl ether
8260B		Water	tert-Butyl alcohol (TBA)
8260B		Water	Toluene
8260B		Water	Xylenes, Total

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

490-107841 Chain of Custody

Cooler Received/Opened On 7/16/2016 @ 0945

Time Samples Removed From Cooler _____ Time Samples Placed In Storage _____ (2 Hour Window)

1. Tracking # 1819 (last 4 digits, FedEx) Courier: _ FedeX __Ground_____

IR Gun ID 17960353 pH Strip Lot HC574756 Chlorine Strip Lot 041416F

2. Temperature of rep. sample or temp blank when opened: 2.9 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: one front & Back

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) DA

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) PM

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) PM

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) PM

I certify that I attached a label with the unique LIMS number to each container (intial) PM

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 12/15/15

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

180325

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

BALTIMORE

Client Information	Sampler: M. Parsons	Lab PM: Salomon, Sherry	Carrier Tracking No.:	COC No: 490-49470-16119.1
Client Contact: Mr. John Canzeri	Phone: 443-286-2673	E-Mail: sherry.salomon@testamericainc.com		Page: Page 1 of 1
Company: AECOM				Job #: 60338398
Address: 8000 Virginia Manor Road Suite 110	Due Date Requested:			
City: Beltsville	TAT Requested (days): STD			
State, Zip: MD, 20705				
Phone: 301-289-3806(Tel) 301-289-3901(Fax)	PO #: WO245818			
Email: John.Canzeri@aecom.com	WO #:			
Project Name: 32785.Hampstead.EL(MD)	Project #: 49008398			
Site: 125 Hanover Pike, Hampstead, MD	SSOW#:			

Analysis Requested

Loc: 490
107841

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B BTEX + Oxys	8016C_GRO	BTEX MTBE 8021	Total Number of containers	Special Instructions/Note:
				Preservation Code:		X	X	A	A	A	X	
1	A/S INF	7/14/16	1442	G	Water	N	N	✓	✓		6	
2	A/S EFF		1439		Water			✓	✓		6	
3	GAC-1 EFF		1436		Water			✓	✓		6	
4	GAC-2 FINAL		1432		Water				✓	✓	6	
					Water							
					Water							
					Water							
					Water							
					Water							

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
(Parsons)	7-15-2016 / 1030	AECOM		7-15-2016 / 1030	TestAmerica
	7-15-2016 / 1050	TestAmerica	2.9	7-16-16 945	TAN

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: AECOM

Job Number: 490-107841-1
SDG Number: 125 Hanover Pike, Hampstead, MD

Login Number: 107841
List Number: 1
Creator: Ngo, Phiet

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-108893-1
TestAmerica SDG: 125 Hanover Pike, Hampstead, MD
Client Project/Site: 32785.Hampstead.EL (MD)

For:
AECOM
8000 Virginia Manor Road
Suite 110
Beltsville, Maryland 20705

Attn: Mr. John Canzeri

Sherry M Salomon

Authorized for release by:
8/10/2016 1:08:40 PM

Sherry Salomon, Manager of Project Management Assistants
(615)301-5033
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LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-108893-1
SDG: 125 Hanover Pike, Hampstead, MD

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-108893-1	A/S INF	Water	08/01/16 17:35	08/03/16 09:55
490-108893-2	A/S EFF	Water	08/01/16 17:30	08/03/16 09:55
490-108893-3	GAC-1 EFF	Water	08/01/16 17:25	08/03/16 09:55
490-108893-4	GAC-2 FINAL	Water	08/01/16 17:20	08/03/16 09:55
490-108893-5	MW-8	Water	08/01/16 17:40	08/03/16 09:55
490-108893-6	MW-9	Water	08/01/16 17:45	08/03/16 09:55
490-108893-7	MW-10	Water	08/01/16 17:50	08/03/16 09:55

Case Narrative

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-108893-1
SDG: 125 Hanover Pike, Hampstead, MD

Job ID: 490-108893-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-108893-1

Comments
No additional comments.

Receipt
The samples were received on 8/3/2016 at 9:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.8º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-108893-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: A/S INF

Date Collected: 08/01/16 17:35
Date Received: 08/03/16 09:55

Lab Sample ID: 490-108893-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/05/16 03:34	1
Diisopropyl ether	ND		2.00		ug/L			08/05/16 03:34	1
Ethylbenzene	ND		1.00		ug/L			08/05/16 03:34	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/05/16 03:34	1
Methyl tert-butyl ether	**1.84**		1.00		ug/L			08/05/16 03:34	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/05/16 03:34	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/05/16 03:34	1
Toluene	ND		1.00		ug/L			08/05/16 03:34	1
Xylenes, Total	ND		3.00		ug/L			08/05/16 03:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*08/05/16 03:34*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*08/05/16 03:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*08/05/16 03:34*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*08/05/16 03:34*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			08/03/16 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*94*		*50 - 150*		*08/03/16 15:36*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-108893-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: A/S EFF

Date Collected: 08/01/16 17:30
Date Received: 08/03/16 09:55

Lab Sample ID: 490-108893-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/05/16 03:08	1
Diisopropyl ether	ND		2.00		ug/L			08/05/16 03:08	1
Ethylbenzene	ND		1.00		ug/L			08/05/16 03:08	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/05/16 03:08	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/05/16 03:08	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/05/16 03:08	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/05/16 03:08	1
Toluene	ND		1.00		ug/L			08/05/16 03:08	1
Xylenes, Total	ND		3.00		ug/L			08/05/16 03:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*08/05/16 03:08*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*08/05/16 03:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*08/05/16 03:08*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*08/05/16 03:08*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			08/03/16 16:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*94*		*50 - 150*		*08/03/16 16:08*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-108893-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: GAC-1 EFF

Lab Sample ID: 490-108893-3

Date Collected: 08/01/16 17:25
Date Received: 08/03/16 09:55

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/05/16 02:42	1
Diisopropyl ether	ND		2.00		ug/L			08/05/16 02:42	1
Ethylbenzene	ND		1.00		ug/L			08/05/16 02:42	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/05/16 02:42	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/05/16 02:42	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/05/16 02:42	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/05/16 02:42	1
Toluene	ND		1.00		ug/L			08/05/16 02:42	1
Xylenes, Total	ND		3.00		ug/L			08/05/16 02:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*08/05/16 02:42*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*08/05/16 02:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*08/05/16 02:42*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/05/16 02:42*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			08/03/16 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*96*		*50 - 150*		*08/03/16 18:16*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-108893-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: GAC-2 FINAL

Lab Sample ID: 490-108893-4

Date Collected: 08/01/16 17:20
Matrix: Water
Date Received: 08/03/16 09:55

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/05/16 02:15	1
Ethylbenzene	ND		1.00		ug/L			08/05/16 02:15	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/05/16 02:15	1
Toluene	ND		1.00		ug/L			08/05/16 02:15	1
Xylenes, Total	ND		3.00		ug/L			08/05/16 02:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*08/05/16 02:15*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/05/16 02:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*08/05/16 02:15*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*08/05/16 02:15*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			08/03/16 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*96*		*50 - 150*		*08/03/16 18:48*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-108893-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-8

Lab Sample ID: 490-108893-5

Date Collected: 08/01/16 17:40
Date Received: 08/03/16 09:55

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/05/16 04:53	1
Diisopropyl ether	ND		2.00		ug/L			08/05/16 04:53	1
Ethylbenzene	ND		1.00		ug/L			08/05/16 04:53	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/05/16 04:53	1
Methyl tert-butyl ether	**4.01**		1.00		ug/L			08/05/16 04:53	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/05/16 04:53	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/05/16 04:53	1
Toluene	ND		1.00		ug/L			08/05/16 04:53	1
Xylenes, Total	ND		3.00		ug/L			08/05/16 04:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*08/05/16 04:53*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*08/05/16 04:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*08/05/16 04:53*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/05/16 04:53*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			08/03/16 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*99*		*50 - 150*		*08/03/16 19:20*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-108893-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-9

Lab Sample ID: 490-108893-6

Date Collected: 08/01/16 17:45
Date Received: 08/03/16 09:55

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/05/16 04:27	1
Diisopropyl ether	ND		2.00		ug/L			08/05/16 04:27	1
Ethylbenzene	ND		1.00		ug/L			08/05/16 04:27	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/05/16 04:27	1
Methyl tert-butyl ether	**35.5**		1.00		ug/L			08/05/16 04:27	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/05/16 04:27	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/05/16 04:27	1
Toluene	ND		1.00		ug/L			08/05/16 04:27	1
Xylenes, Total	ND		3.00		ug/L			08/05/16 04:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*08/05/16 04:27*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*08/05/16 04:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*		*08/05/16 04:27*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/05/16 04:27*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			08/03/16 19:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*96*		*50 - 150*		*08/03/16 19:52*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-108893-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-10

Date Collected: 08/01/16 17:50
Date Received: 08/03/16 09:55

Lab Sample ID: 490-108893-7

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/05/16 04:01	1
Diisopropyl ether	ND		2.00		ug/L			08/05/16 04:01	1
Ethylbenzene	ND		1.00		ug/L			08/05/16 04:01	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/05/16 04:01	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/05/16 04:01	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/05/16 04:01	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/05/16 04:01	1
Toluene	ND		1.00		ug/L			08/05/16 04:01	1
Xylenes, Total	ND		3.00		ug/L			08/05/16 04:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*08/05/16 04:01*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*08/05/16 04:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*		*08/05/16 04:01*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/05/16 04:01*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			08/03/16 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*99*		*50 - 150*		*08/03/16 20:24*	*1*

QC Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-108893-1
SDG: 125 Hanover Pike, Hampstead, MD

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-360479/7
Matrix: Water
Analysis Batch: 360479

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/05/16 01:23	1
Diisopropyl ether	ND		2.00		ug/L			08/05/16 01:23	1
Ethylbenzene	ND		1.00		ug/L			08/05/16 01:23	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/05/16 01:23	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/05/16 01:23	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/05/16 01:23	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/05/16 01:23	1
Toluene	ND		1.00		ug/L			08/05/16 01:23	1
Xylenes, Total	ND		3.00		ug/L			08/05/16 01:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*08/05/16 01:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*08/05/16 01:23*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*08/05/16 01:23*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/05/16 01:23*	*1*

Lab Sample ID: LCS 490-360479/3
Matrix: Water
Analysis Batch: 360479

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	50.58		ug/L		101	70 - 130
Diisopropyl ether	50.0	47.70		ug/L		95	66 - 142
Ethylbenzene	50.0	49.93		ug/L		100	70 - 130
Ethyl tert-butyl ether	50.0	50.34		ug/L		101	63 - 135
Methyl tert-butyl ether	50.0	51.99		ug/L		104	70 - 130
Tert-amyl methyl ether	50.0	49.43		ug/L		99	63 - 135
tert-Butyl alcohol (TBA)	500	456.4		ug/L		91	12 - 150
Toluene	50.0	49.75		ug/L		99	70 - 130
Xylenes, Total	150	143.1		ug/L		95	70 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*110*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 490-360479/4
Matrix: Water
Analysis Batch: 360479

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	51.64		ug/L		103	70 - 130	2	12
Diisopropyl ether	50.0	49.48		ug/L		99	66 - 142	4	14
Ethylbenzene	50.0	52.08		ug/L		104	70 - 130	4	12
Ethyl tert-butyl ether	50.0	51.04		ug/L		102	63 - 135	1	15
Methyl tert-butyl ether	50.0	54.37		ug/L		109	70 - 130	4	16

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-360479/4
Matrix: Water
Analysis Batch: 360479

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tert-amyl methyl ether			50.0	49.94		ug/L		100	63 - 135	1	15
tert-Butyl alcohol (TBA)			500	466.5		ug/L		93	12 - 150	2	46
Toluene			50.0	52.62		ug/L		105	70 - 130	6	13
Xylenes, Total			150	149.1		ug/L		99	70 - 132	4	11

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*109*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: 490-108893-4 MS
Matrix: Water
Analysis Batch: 360479

Client Sample ID: GAC-2 FINAL
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	ND		50.0	55.06		ug/L		110	55 - 147		
Diisopropyl ether	ND		50.0	51.79		ug/L		104	56 - 142		
Ethylbenzene	ND		50.0	55.47		ug/L		111	65 - 139		
Ethyl tert-butyl ether	ND		50.0	53.04		ug/L		106	53 - 138		
Methyl tert-butyl ether	ND		50.0	54.77		ug/L		110	55 - 141		
Tert-amyl methyl ether	ND		50.0	52.59		ug/L		105	47 - 148		
tert-Butyl alcohol (TBA)	ND		500	657.1		ug/L		131	10 - 150		
Toluene	ND		50.0	55.80		ug/L		112	64 - 136		
Xylenes, Total	ND		150	157.7		ug/L		105	69 - 132		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*111*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: 490-108893-4 MSD
Matrix: Water
Analysis Batch: 360479

Client Sample ID: GAC-2 FINAL
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		50.0	53.79		ug/L		108	55 - 147	2	22
Diisopropyl ether	ND		50.0	50.29		ug/L		101	56 - 142	3	22
Ethylbenzene	ND		50.0	52.82		ug/L		106	65 - 139	5	18
Ethyl tert-butyl ether	ND		50.0	52.32		ug/L		105	53 - 138	1	22
Methyl tert-butyl ether	ND		50.0	53.84		ug/L		108	55 - 141	2	24
Tert-amyl methyl ether	ND		50.0	51.25		ug/L		103	47 - 148	3	23
tert-Butyl alcohol (TBA)	ND		500	699.8		ug/L		140	10 - 150	6	47
Toluene	ND		50.0	52.75		ug/L		105	64 - 136	6	18
Xylenes, Total	ND		150	150.8		ug/L		101	69 - 132	5	17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-108893-4 MSD
Matrix: Water
Analysis Batch: 360479

Client Sample ID: GAC-2 FINAL
Prep Type: Total/NA

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*109*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Lab Sample ID: MB 490-359903/6
Matrix: Water
Analysis Batch: 359903

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			08/03/16 11:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*96*		*50 - 150*		*08/03/16 11:07*	*1*

Lab Sample ID: LCS 490-359903/4
Matrix: Water
Analysis Batch: 359903

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]			1000	1090		ug/L		109	66 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*98*		*50 - 150*

Lab Sample ID: LCSD 490-359903/5
Matrix: Water
Analysis Batch: 359903

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]			1000	1027		ug/L		103	66 - 140	6	42

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*99*		*50 - 150*

Lab Sample ID: 490-108893-2 MS
Matrix: Water
Analysis Batch: 359903

Client Sample ID: A/S EFF
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]	ND		1000	1092		ug/L		109	33 - 175		

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) (Continued)

Lab Sample ID: 490-108893-2 MS
Matrix: Water
Analysis Batch: 359903

Client Sample ID: A/S EFF
Prep Type: Total/NA

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*98*		*50 - 150*

Lab Sample ID: 490-108893-2 MSD
Matrix: Water
Analysis Batch: 359903

Client Sample ID: A/S EFF
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		1000	968.0		ug/L		97	33 - 175	12	42

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*97*		*50 - 150*

QC Association Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-108893-1
SDG: 125 Hanover Pike, Hampstead, MD

GC/MS VOA

Analysis Batch: 360479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-108893-1	A/S INF	Total/NA	Water	8260B	
490-108893-2	A/S EFF	Total/NA	Water	8260B	
490-108893-3	GAC-1 EFF	Total/NA	Water	8260B	
490-108893-4	GAC-2 FINAL	Total/NA	Water	8260B	
490-108893-5	MW-8	Total/NA	Water	8260B	
490-108893-6	MW-9	Total/NA	Water	8260B	
490-108893-7	MW-10	Total/NA	Water	8260B	
MB 490-360479/7	Method Blank	Total/NA	Water	8260B	
LCS 490-360479/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-360479/4	Lab Control Sample Dup	Total/NA	Water	8260B	
490-108893-4 MS	GAC-2 FINAL	Total/NA	Water	8260B	
490-108893-4 MSD	GAC-2 FINAL	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 359903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-108893-1	A/S INF	Total/NA	Water	8015C	
490-108893-2	A/S EFF	Total/NA	Water	8015C	
490-108893-3	GAC-1 EFF	Total/NA	Water	8015C	
490-108893-4	GAC-2 FINAL	Total/NA	Water	8015C	
490-108893-5	MW-8	Total/NA	Water	8015C	
490-108893-6	MW-9	Total/NA	Water	8015C	
490-108893-7	MW-10	Total/NA	Water	8015C	
MB 490-359903/6	Method Blank	Total/NA	Water	8015C	
LCS 490-359903/4	Lab Control Sample	Total/NA	Water	8015C	
LCSD 490-359903/5	Lab Control Sample Dup	Total/NA	Water	8015C	
490-108893-2 MS	A/S EFF	Total/NA	Water	8015C	
490-108893-2 MSD	A/S EFF	Total/NA	Water	8015C	

Lab Chronicle

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-108893-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: A/S INF — Lab Sample ID: 490-108893-1

Date Collected: 08/01/16 17:35 — **Matrix: Water**
Date Received: 08/03/16 09:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	360479	08/05/16 03:34	RP	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	359903	08/03/16 15:36	A1B	TAL NSH

Client Sample ID: A/S EFF — Lab Sample ID: 490-108893-2

Date Collected: 08/01/16 17:30 — **Matrix: Water**
Date Received: 08/03/16 09:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	360479	08/05/16 03:08	RP	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	359903	08/03/16 16:08	A1B	TAL NSH

Client Sample ID: GAC-1 EFF — Lab Sample ID: 490-108893-3

Date Collected: 08/01/16 17:25 — **Matrix: Water**
Date Received: 08/03/16 09:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	360479	08/05/16 02:42	RP	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	359903	08/03/16 18:16	A1B	TAL NSH

Client Sample ID: GAC-2 FINAL — Lab Sample ID: 490-108893-4

Date Collected: 08/01/16 17:20 — **Matrix: Water**
Date Received: 08/03/16 09:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	360479	08/05/16 02:15	RP	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	359903	08/03/16 18:48	A1B	TAL NSH

Client Sample ID: MW-8 — Lab Sample ID: 490-108893-5

Date Collected: 08/01/16 17:40 — **Matrix: Water**
Date Received: 08/03/16 09:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	360479	08/05/16 04:53	RP	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	359903	08/03/16 19:20	A1B	TAL NSH

Client Sample ID: MW-9 — Lab Sample ID: 490-108893-6

Date Collected: 08/01/16 17:45 — **Matrix: Water**
Date Received: 08/03/16 09:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	360479	08/05/16 04:27	RP	TAL NSH

Lab Chronicle

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-108893-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-9

Lab Sample ID: 490-108893-6
Date Collected: 08/01/16 17:45
Matrix: Water
Date Received: 08/03/16 09:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015C		1	5 mL	5 mL	359903	08/03/16 19:52	A1B	TAL NSH

Client Sample ID: MW-10

Lab Sample ID: 490-108893-7
Date Collected: 08/01/16 17:50
Matrix: Water
Date Received: 08/03/16 09:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	360479	08/05/16 04:01	RP	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	359903	08/03/16 20:24	A1B	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-108893-1
SDG: 125 Hanover Pike, Hampstead, MD

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
8015C	Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	SW846	TAL NSH

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-108893-1
SDG: 125 Hanover Pike, Hampstead, MD

Laboratory: TestAmerica Nashville

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Maryland	State Program	3	316	03-31-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8015C		Water	Gasoline Range Organics [C6 - C10]
8260B		Water	Benzene
8260B		Water	Diisopropyl ether
8260B		Water	Ethyl tert-butyl ether
8260B		Water	Ethylbenzene
8260B		Water	Methyl tert-butyl ether
8260B		Water	Tert-amyl methyl ether
8260B		Water	tert-Butyl alcohol (TBA)
8260B		Water	Toluene
8260B		Water	Xylenes, Total

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Nashville, TN

COOLER RECEIPT FORM

490-108893 Chain of Custody

Cooler Received/Opened On 8/3/2016 @ 955

Time Samples Removed From Cooler 1300 Time Samples Placed In Storage 1320 (2 Hour Window)

1. Tracking # 7291 (last 4 digits, FedEx) Courier: _fedex_

   IR Gun ID 17960358 pH Strip Lot HC564992 Chlorine Strip Lot 072815A

2. Temperature of rep. sample or temp blank when opened: 5.8 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

   If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) PN

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

   Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

   b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) MSM

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

   b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) MSM

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) MSM

I certify that I attached a label with the unique LIMS number to each container (intial) MSM

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#_____

BIS = Broken in shipment

TestAmerica Nashville
2960 Foster Creighton Drive

Nashville, TN 37204-3719
phone 615.726.0177 fax 615.726.3404

180325

Chain of Custody Record

Loc: 490
108893

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8/10/2016

BALTIMORE

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: John Canzeri	Site Contact: Mike Parsons	11/10/2015	COC No:
AECOM	Tel/Fax: 301-289-3805	Lab Contact: Salomon, Sherry	Carrier:	1 of 1 COCs
8000 Virginia Manor Rd., Suite 110	Analysis Turnaround Time			Sampler:
Beltsville, Maryland 20705	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
301-289-3900 Phone	TAT if different from Below: Standard			Walk-in Client:
301-289-3901 FAX	☐ 2 weeks			Lab Sampling:
Project Name: 32785.Hampstead.EL	☐ 1 week			
Site: 125 Hanover Pike, Hampstead, MD	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			AECOM's Job #60338398

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	BTEX + Oxy 8260	BTEX/MTBE	TPH-GRO 8015	Sample Specific Notes:
A/S INF	8/1/16	17:35	Grab	W	6	N	N	*		*	-1
A/S EFF		17:36	Grab	W	6	N	N	*		*	2
GAC-1 EFF		17:35	Grab	W	6	N	N	*		*	3
GAC-2 FINAL		17:30	Grab	W	6	N	N		*	*	4
MW-8		17:40	Grab	W	6	N	N	*		*	5
MW-9		17:45	Grab	W	6	N	N	*		*	6
MW-10		17:50	Grab	W	6	N	N	*		*	7
								2	2	2	

Preservation Used: 1=Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

7-Eleven/AECOM EDD

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company: AECOM	Date/Time: 8-2-2016/1500	Received by:	Company: TestAmerica	Date/Time: 8-2-2016/1500
Relinquished by:	Company: TestAmerica	Date/Time: 8-2-2016/1525	Received by:	Company: TAN	Date/Time: 8-3-16 @ 0955 5.0c
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Login Sample Receipt Checklist

Client: AECOM

Job Number: 490-108893-1
SDG Number: 125 Hanover Pike, Hampstead, MD

Login Number: 108893
List Number: 1
Creator: McBride, Mike

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-110107-1
TestAmerica SDG: 125 Hanover Pike, Hampstead, MD
Client Project/Site: 32785.Hampstead.EL (MD)

For:
AECOM
8000 Virginia Manor Road
Suite 110
Beltsville, Maryland 20705

Attn: Mr. John Canzeri

Sherry M Salomon

Authorized for release by:
8/26/2016 2:02:37 PM

Sherry Salomon, Manager of Project Management Assistants
(615)301-5033
sherry.salomon@testamericainc.com

LINKS

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Have a Question? Ask The Expert

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-110107-1
SDG: 125 Hanover Pike, Hampstead, MD

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-110107-1	A/S INF	Water	08/16/16 15:05	08/19/16 09:10
490-110107-2	A/S EFF	Water	08/16/16 15:01	08/19/16 09:10
490-110107-3	GAC-1 EFF	Water	08/16/16 14:55	08/19/16 09:10
490-110107-4	GAC-2 FINAL	Water	08/16/16 14:52	08/19/16 09:10
490-110107-5	MW-8	Water	08/16/16 15:45	08/19/16 09:10
490-110107-6	MW-9	Water	08/16/16 16:35	08/19/16 09:10
490-110107-7	MW-10	Water	08/16/16 15:11	08/19/16 09:10

Case Narrative

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-110107-1
SDG: 125 Hanover Pike, Hampstead, MD

Job ID: 490-110107-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-110107-1

Comments
No additional comments.

Receipt
The samples were received on 8/19/2016 at 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.2º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-110107-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: A/S INF

Lab Sample ID: 490-110107-1

Date Collected: 08/16/16 15:05
Matrix: Water
Date Received: 08/19/16 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/24/16 08:38	1
Diisopropyl ether	ND		2.00		ug/L			08/24/16 08:38	1
Ethylbenzene	ND		1.00		ug/L			08/24/16 08:38	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/24/16 08:38	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/24/16 08:38	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/24/16 08:38	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/24/16 08:38	1
Toluene	ND		1.00		ug/L			08/24/16 08:38	1
Xylenes, Total	ND		3.00		ug/L			08/24/16 08:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*08/24/16 08:38*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*08/24/16 08:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*79*		*70 - 130*		*08/24/16 08:38*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*08/24/16 08:38*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			08/26/16 01:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*89*		*50 - 150*		*08/26/16 01:43*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-110107-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: A/S EFF

Lab Sample ID: 490-110107-2

Date Collected: 08/16/16 15:01
Matrix: Water
Date Received: 08/19/16 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/24/16 05:53	1
Diisopropyl ether	ND		2.00		ug/L			08/24/16 05:53	1
Ethylbenzene	ND		1.00		ug/L			08/24/16 05:53	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/24/16 05:53	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/24/16 05:53	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/24/16 05:53	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/24/16 05:53	1
Toluene	ND		1.00		ug/L			08/24/16 05:53	1
Xylenes, Total	ND		3.00		ug/L			08/24/16 05:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*08/24/16 05:53*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*08/24/16 05:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*81*		*70 - 130*		*08/24/16 05:53*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*08/24/16 05:53*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			08/25/16 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*92*		*50 - 150*		*08/25/16 20:06*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-110107-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: GAC-1 EFF

Lab Sample ID: 490-110107-3

Date Collected: 08/16/16 14:55
Matrix: Water
Date Received: 08/19/16 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/24/16 06:21	1
Diisopropyl ether	ND		2.00		ug/L			08/24/16 06:21	1
Ethylbenzene	ND		1.00		ug/L			08/24/16 06:21	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/24/16 06:21	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/24/16 06:21	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/24/16 06:21	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/24/16 06:21	1
Toluene	ND		1.00		ug/L			08/24/16 06:21	1
Xylenes, Total	ND		3.00		ug/L			08/24/16 06:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*08/24/16 06:21*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*08/24/16 06:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*81*		*70 - 130*		*08/24/16 06:21*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/24/16 06:21*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			08/25/16 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*94*		*50 - 150*		*08/25/16 20:37*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-110107-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: GAC-2 FINAL

Lab Sample ID: 490-110107-4

Date Collected: 08/16/16 14:52
Matrix: Water
Date Received: 08/19/16 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/24/16 06:48	1
Ethylbenzene	ND		1.00		ug/L			08/24/16 06:48	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/24/16 06:48	1
Toluene	ND		1.00		ug/L			08/24/16 06:48	1
Xylenes, Total	ND		3.00		ug/L			08/24/16 06:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*08/24/16 06:48*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*08/24/16 06:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*70 - 130*		*08/24/16 06:48*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*08/24/16 06:48*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			08/25/16 22:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*94*		*50 - 150*		*08/25/16 22:39*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-110107-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-8

Lab Sample ID: 490-110107-5

Date Collected: 08/16/16 15:45
Matrix: Water
Date Received: 08/19/16 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/24/16 07:16	1
Diisopropyl ether	**3.23**		2.00		ug/L			08/24/16 07:16	1
Ethylbenzene	ND		1.00		ug/L			08/24/16 07:16	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/24/16 07:16	1
Methyl tert-butyl ether	**125**		1.00		ug/L			08/24/16 07:16	1
Tert-amyl methyl ether	**2.06**		1.00		ug/L			08/24/16 07:16	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/24/16 07:16	1
Toluene	ND		1.00		ug/L			08/24/16 07:16	1
Xylenes, Total	ND		3.00		ug/L			08/24/16 07:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*08/24/16 07:16*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*08/24/16 07:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*81*		*70 - 130*		*08/24/16 07:16*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/24/16 07:16*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			08/25/16 23:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*92*		*50 - 150*		*08/25/16 23:10*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-110107-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-9

Lab Sample ID: 490-110107-6

Date Collected: 08/16/16 16:35
Matrix: Water
Date Received: 08/19/16 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/24/16 07:43	1
Diisopropyl ether	ND		2.00		ug/L			08/24/16 07:43	1
Ethylbenzene	ND		1.00		ug/L			08/24/16 07:43	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/24/16 07:43	1
Methyl tert-butyl ether	**2.49**		1.00		ug/L			08/24/16 07:43	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/24/16 07:43	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/24/16 07:43	1
Toluene	ND		1.00		ug/L			08/24/16 07:43	1
Xylenes, Total	ND		3.00		ug/L			08/24/16 07:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*08/24/16 07:43*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*08/24/16 07:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*70 - 130*		*08/24/16 07:43*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*08/24/16 07:43*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			08/25/16 23:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*91*		*50 - 150*		*08/25/16 23:40*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-110107-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-10

Lab Sample ID: 490-110107-7

Date Collected: 08/16/16 15:11
Matrix: Water
Date Received: 08/19/16 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/24/16 08:10	1
Diisopropyl ether	ND		2.00		ug/L			08/24/16 08:10	1
Ethylbenzene	ND		1.00		ug/L			08/24/16 08:10	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/24/16 08:10	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/24/16 08:10	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/24/16 08:10	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/24/16 08:10	1
Toluene	ND		1.00		ug/L			08/24/16 08:10	1
Xylenes, Total	ND		3.00		ug/L			08/24/16 08:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*08/24/16 08:10*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*08/24/16 08:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*70 - 130*		*08/24/16 08:10*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*08/24/16 08:10*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			08/26/16 00:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*93*		*50 - 150*		*08/26/16 00:11*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-364842/6
Matrix: Water
Analysis Batch: 364842

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/24/16 01:20	1
Diisopropyl ether	ND		2.00		ug/L			08/24/16 01:20	1
Ethylbenzene	ND		1.00		ug/L			08/24/16 01:20	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/24/16 01:20	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/24/16 01:20	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/24/16 01:20	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/24/16 01:20	1
Toluene	ND		1.00		ug/L			08/24/16 01:20	1
Xylenes, Total	ND		3.00		ug/L			08/24/16 01:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*08/24/16 01:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*70 - 130*		*08/24/16 01:20*	*1*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*08/24/16 01:20*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/24/16 01:20*	*1*

Lab Sample ID: LCS 490-364842/3
Matrix: Water
Analysis Batch: 364842

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	55.57		ug/L		111	70 - 130
Diisopropyl ether	50.0	43.15		ug/L		86	66 - 142
Ethylbenzene	50.0	55.25		ug/L		110	70 - 130
Ethyl tert-butyl ether	50.0	43.11		ug/L		86	63 - 135
Methyl tert-butyl ether	50.0	45.40		ug/L		91	70 - 130
Tert-amyl methyl ether	50.0	50.16		ug/L		100	63 - 135
tert-Butyl alcohol (TBA)	500	386.8		ug/L		77	12 - 150
Toluene	50.0	56.08		ug/L		112	70 - 130
Xylenes, Total	150	153.4		ug/L		102	70 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 490-364842/4
Matrix: Water
Analysis Batch: 364842

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	56.45		ug/L		113	70 - 130	2	12
Diisopropyl ether	50.0	43.10		ug/L		86	66 - 142	0	14
Ethylbenzene	50.0	54.61		ug/L		109	70 - 130	1	12
Ethyl tert-butyl ether	50.0	43.60		ug/L		87	63 - 135	1	15
Methyl tert-butyl ether	50.0	47.29		ug/L		95	70 - 130	4	16

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-364842/4 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 364842

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tert-amyl methyl ether			50.0	50.66		ug/L		101	63 - 135	1	15
tert-Butyl alcohol (TBA)			500	395.7		ug/L		79	12 - 150	2	46
Toluene			50.0	55.41		ug/L		111	70 - 130	1	13
Xylenes, Total			150	153.0		ug/L		102	70 - 132	0	11

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

Lab Sample ID: 490-110107-4 MS — **Client Sample ID: GAC-2 FINAL**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 364842

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	ND		50.0	49.77		ug/L		100	55 - 147		
Diisopropyl ether	ND		50.0	37.34		ug/L		75	56 - 142		
Ethylbenzene	ND		50.0	47.33		ug/L		95	65 - 139		
Ethyl tert-butyl ether	ND		50.0	36.52		ug/L		73	53 - 138		
Methyl tert-butyl ether	ND		50.0	37.87		ug/L		76	55 - 141		
Tert-amyl methyl ether	ND		50.0	41.53		ug/L		83	47 - 148		
tert-Butyl alcohol (TBA)	ND		500	404.1		ug/L		81	10 - 150		
Toluene	ND		50.0	49.06		ug/L		98	64 - 136		
Xylenes, Total	ND		150	132.7		ug/L		88	69 - 132		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 130*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: 490-110107-4 MSD — **Client Sample ID: GAC-2 FINAL**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 364842

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		50.0	52.72		ug/L		105	55 - 147	6	22
Diisopropyl ether	ND		50.0	41.69		ug/L		83	56 - 142	11	22
Ethylbenzene	ND		50.0	50.45		ug/L		101	65 - 139	6	18
Ethyl tert-butyl ether	ND		50.0	41.80		ug/L		84	53 - 138	13	22
Methyl tert-butyl ether	ND		50.0	47.17		ug/L		94	55 - 141	22	24
Tert-amyl methyl ether	ND		50.0	51.17		ug/L		102	47 - 148	21	23
tert-Butyl alcohol (TBA)	ND		500	617.6		ug/L		124	10 - 150	42	47
Toluene	ND		50.0	51.88		ug/L		104	64 - 136	6	18
Xylenes, Total	ND		150	141.0		ug/L		94	69 - 132	6	17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-110107-4 MSD
Matrix: Water
Analysis Batch: 364842

Client Sample ID: GAC-2 FINAL
Prep Type: Total/NA

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Lab Sample ID: MB 490-365322/20
Matrix: Water
Analysis Batch: 365322

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			08/25/16 19:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*93*		*50 - 150*		*08/25/16 19:35*	*1*

Lab Sample ID: LCS 490-365322/8
Matrix: Water
Analysis Batch: 365322

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]			1000	1030		ug/L		103	66 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*119*		*50 - 150*

Lab Sample ID: LCSD 490-365322/9
Matrix: Water
Analysis Batch: 365322

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]			1000	1011		ug/L		101	66 - 140	2	42

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*117*		*50 - 150*

Lab Sample ID: 490-110107-3 MS
Matrix: Water
Analysis Batch: 365322

Client Sample ID: GAC-1 EFF
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]	ND		1000	939.4		ug/L		94	33 - 175		

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) (Continued)

Lab Sample ID: 490-110107-3 MS
Matrix: Water
Analysis Batch: 365322

Client Sample ID: GAC-1 EFF
Prep Type: Total/NA

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*116*		*50 - 150*

Lab Sample ID: 490-110107-3 MSD
Matrix: Water
Analysis Batch: 365322

Client Sample ID: GAC-1 EFF
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		1000	1051		ug/L		105	33 - 175	11	42

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*113*		*50 - 150*

QC Association Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-110107-1
SDG: 125 Hanover Pike, Hampstead, MD

GC/MS VOA

Analysis Batch: 364842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-110107-1	A/S INF	Total/NA	Water	8260B	
490-110107-2	A/S EFF	Total/NA	Water	8260B	
490-110107-3	GAC-1 EFF	Total/NA	Water	8260B	
490-110107-4	GAC-2 FINAL	Total/NA	Water	8260B	
490-110107-5	MW-8	Total/NA	Water	8260B	
490-110107-6	MW-9	Total/NA	Water	8260B	
490-110107-7	MW-10	Total/NA	Water	8260B	
MB 490-364842/6	Method Blank	Total/NA	Water	8260B	
LCS 490-364842/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-364842/4	Lab Control Sample Dup	Total/NA	Water	8260B	
490-110107-4 MS	GAC-2 FINAL	Total/NA	Water	8260B	
490-110107-4 MSD	GAC-2 FINAL	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 365322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-110107-1	A/S INF	Total/NA	Water	8015C	
490-110107-2	A/S EFF	Total/NA	Water	8015C	
490-110107-3	GAC-1 EFF	Total/NA	Water	8015C	
490-110107-4	GAC-2 FINAL	Total/NA	Water	8015C	
490-110107-5	MW-8	Total/NA	Water	8015C	
490-110107-6	MW-9	Total/NA	Water	8015C	
490-110107-7	MW-10	Total/NA	Water	8015C	
MB 490-365322/20	Method Blank	Total/NA	Water	8015C	
LCS 490-365322/8	Lab Control Sample	Total/NA	Water	8015C	
LCSD 490-365322/9	Lab Control Sample Dup	Total/NA	Water	8015C	
490-110107-3 MS	GAC-1 EFF	Total/NA	Water	8015C	
490-110107-3 MSD	GAC-1 EFF	Total/NA	Water	8015C	

Lab Chronicle

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-110107-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: A/S INF — Lab Sample ID: 490-110107-1

Date Collected: 08/16/16 15:05 — **Matrix: Water**
Date Received: 08/19/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	364842	08/24/16 08:38	SLM	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	365322	08/26/16 01:43	GWM	TAL NSH

Client Sample ID: A/S EFF — Lab Sample ID: 490-110107-2

Date Collected: 08/16/16 15:01 — **Matrix: Water**
Date Received: 08/19/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	364842	08/24/16 05:53	SLM	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	365322	08/25/16 20:06	GWM	TAL NSH

Client Sample ID: GAC-1 EFF — Lab Sample ID: 490-110107-3

Date Collected: 08/16/16 14:55 — **Matrix: Water**
Date Received: 08/19/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	364842	08/24/16 06:21	SLM	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	365322	08/25/16 20:37	GWM	TAL NSH

Client Sample ID: GAC-2 FINAL — Lab Sample ID: 490-110107-4

Date Collected: 08/16/16 14:52 — **Matrix: Water**
Date Received: 08/19/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	364842	08/24/16 06:48	SLM	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	365322	08/25/16 22:39	GWM	TAL NSH

Client Sample ID: MW-8 — Lab Sample ID: 490-110107-5

Date Collected: 08/16/16 15:45 — **Matrix: Water**
Date Received: 08/19/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	364842	08/24/16 07:16	SLM	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	365322	08/25/16 23:10	GWM	TAL NSH

Client Sample ID: MW-9 — Lab Sample ID: 490-110107-6

Date Collected: 08/16/16 16:35 — **Matrix: Water**
Date Received: 08/19/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	364842	08/24/16 07:43	SLM	TAL NSH

Lab Chronicle

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-110107-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-9

Lab Sample ID: 490-110107-6

Date Collected: 08/16/16 16:35
Matrix: Water
Date Received: 08/19/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015C		1	5 mL	5 mL	365322	08/25/16 23:40	GWM	TAL NSH

Client Sample ID: MW-10

Lab Sample ID: 490-110107-7

Date Collected: 08/16/16 15:11
Matrix: Water
Date Received: 08/19/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	364842	08/24/16 08:10	SLM	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	365322	08/26/16 00:11	GWM	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-110107-1
SDG: 125 Hanover Pike, Hampstead, MD

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
8015C	Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	SW846	TAL NSH

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-110107-1
SDG: 125 Hanover Pike, Hampstead, MD

Laboratory: TestAmerica Nashville

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Maryland	State Program	3	316	03-31-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8015C		Water	Gasoline Range Organics [C6 - C10]
8260B		Water	Benzene
8260B		Water	Diisopropyl ether
8260B		Water	Ethyl tert-butyl ether
8260B		Water	Ethylbenzene
8260B		Water	Methyl tert-butyl ether
8260B		Water	Tert-amyl methyl ether
8260B		Water	tert-Butyl alcohol (TBA)
8260B		Water	Toluene
8260B		Water	Xylenes, Total

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Nashville, TN

490-110107 Chain of Custody

Baltimore

COOLER RECEIPT FORM

Cooler Received/Opened On 8/19/2016 @ 0910

Time Samples Removed From Cooler 1319 Time Samples Placed In Storage 1349 (2 Hour Window)

1. Tracking # 6792 (last 4 digits, FedEx) Courier: FedEx

   IR Gun ID 17960358 pH Strip Lot HC58117 Chlorine Strip Lot 71130

2. Temperature of rep. sample or temp blank when opened: 1-2 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

   If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) D

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

   Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

   b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) MDM

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA

   b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) MDM

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) MDM

I certify that I attached a label with the unique LIMS number to each container (intial) MDM

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#_____

Proj #on labels. MDM

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 12/15/15

8/26/2016

Loc: 490
110107

8/26/2016

TestAmerica Nashville
2960 Foster Creighton Drive

Nashville, TN 37204-3719
phone 615.726.0177 fax 615.726.3404

180325

Chain of Custody Record

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TestAmerica Laboratories, Inc.

BALTIMORE

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

8/16/16

Client Contact	Project Manager: John Canzeri	Site Contact: Mike Parsons	~~11/10/2015~~	COC No:
AECOM	Tel/Fax: 301-289-3805	Lab Contact: Salomon, Sherry	Carrier:	1 of 1 COCs
8000 Virginia Manor Rd., Suite 110	Analysis Turnaround Time			Sampler: M. Parsons
Beltsville, Maryland 20705	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
301-289-3900 Phone	TAT if different from Below: Standard			Walk-in Client:
301-289-3901 FAX	☐ 2 weeks			Lab Sampling:
Project Name: 32785.Hampstead.EL	☐ 1 week			
Site: 125 Hanover Pike, Hampstead, MD	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			AECOM's Job #60338398

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	BTEX + Oxy 8260	BTEX/MTBE	TPH-GRO 8015	Sample Specific Notes:
A/S INF	8/16/16	1505	Grab	W	6	N	N	*		*	-1
A/S EFF		1501	Grab	W	6	N	N	*		*	2
GAC-1 EFF		1455	Grab	W	6	N	N	*		*	3
GAC-2 FINAL		1452	Grab	W	6	N	N		*	*	4
MW-8		1545	Grab	W	6	N	N	*		*	5
MW-9		1635	Grab	W	6	N	N	*		*	6
MW-10		1511	Grab	W	6	N	N	*		*	7
								2	2	2	

Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

7-Eleven/AECOM EDD

Cooler bottle order #49489

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company: AECOM	Date/Time: 8/17/16	Received by:	Company:	Date/Time: 8/17/16 1400
Relinquished by:	Company: TestAmerica	Date/Time: 8-17-2016 22	Received by:	Company: TAN	Date/Time: 8-19-16@ 0910 1.2c
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Login Sample Receipt Checklist

Client: AECOM

Job Number: 490-110107-1

SDG Number: 125 Hanover Pike, Hampstead, MD

Login Number: 110107

List Number: 1

Creator: McBride, Mike

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-111235-1
TestAmerica SDG: 125 Hanover Pike, Hampstead, MD
Client Project/Site: 32785.Hampstead.EL (MD)

For:
AECOM
8000 Virginia Manor Road
Suite 110
Beltsville, Maryland 20705

Attn: Mr. John Canzeri

Sherry M Salomon

Authorized for release by:
9/14/2016 3:19:55 PM

Sherry Salomon, Manager of Project Management Assistants
(615)301-5033
sherry.salomon@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-111235-1	A/S INF	Water	09/03/16 11:19	09/07/16 09:25
490-111235-2	A/S EFF	Water	09/03/16 11:16	09/07/16 09:25
490-111235-3	GAC-1 EFF	Water	09/03/16 11:15	09/07/16 09:25
490-111235-4	GAC-2 FINAL	Water	09/03/16 11:09	09/07/16 09:25
490-111235-5	MW-8	Water	09/03/16 11:23	09/07/16 09:25
490-111235-6	MW-9	Water	09/03/16 11:24	09/07/16 09:25
490-111235-7	MW-10	Water	09/03/16 11:25	09/07/16 09:25

Case Narrative

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

Job ID: 490-111235-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-111235-1

Comments
No additional comments.

Receipt
The samples were received on 9/7/2016 at 9:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.6º C.

Receipt Exceptions
The container labels for the following samples did not match the information listed on the Chain-of-Custody (COC): A/S INF (490-111235-1), A/S EFF (490-111235-2), GAC-1 EFF (490-111235-3), GAC-2 FINAL (490-111235-4), MW-8 (490-111235-5), MW-9 (490-111235-6) and MW-10 (490-111235-7). The sample collection times were not listed on the container labels. The samples were logged per the collection times listed on the COC.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: A/S INF

Date Collected: 09/03/16 11:19
Date Received: 09/07/16 09:25

Lab Sample ID: 490-111235-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			09/10/16 07:06	1
Diisopropyl ether	ND		2.00		ug/L			09/10/16 07:06	1
Ethylbenzene	ND		1.00		ug/L			09/10/16 07:06	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/10/16 07:06	1
Methyl tert-butyl ether	**16.9**		1.00		ug/L			09/10/16 07:06	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/10/16 07:06	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/10/16 07:06	1
Toluene	ND		1.00		ug/L			09/10/16 07:06	1
Xylenes, Total	ND		3.00		ug/L			09/10/16 07:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*		*09/10/16 07:06*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*09/10/16 07:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*09/10/16 07:06*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*09/10/16 07:06*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			09/08/16 23:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*106*		*50 - 150*		*09/08/16 23:50*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: A/S EFF

Date Collected: 09/03/16 11:16
Date Received: 09/07/16 09:25

Lab Sample ID: 490-111235-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			09/10/16 07:34	1
Diisopropyl ether	ND		2.00		ug/L			09/10/16 07:34	1
Ethylbenzene	ND		1.00		ug/L			09/10/16 07:34	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/10/16 07:34	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/10/16 07:34	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/10/16 07:34	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/10/16 07:34	1
Toluene	ND		1.00		ug/L			09/10/16 07:34	1
Xylenes, Total	ND		3.00		ug/L			09/10/16 07:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*		*09/10/16 07:34*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*09/10/16 07:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*09/10/16 07:34*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*09/10/16 07:34*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			09/09/16 00:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*104*		*50 - 150*		*09/09/16 00:20*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: GAC-1 EFF

Lab Sample ID: 490-111235-3

Date Collected: 09/03/16 11:15
Matrix: Water
Date Received: 09/07/16 09:25

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			09/10/16 08:02	1
Diisopropyl ether	ND		2.00		ug/L			09/10/16 08:02	1
Ethylbenzene	ND		1.00		ug/L			09/10/16 08:02	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/10/16 08:02	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/10/16 08:02	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/10/16 08:02	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/10/16 08:02	1
Toluene	ND		1.00		ug/L			09/10/16 08:02	1
Xylenes, Total	ND		3.00		ug/L			09/10/16 08:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*		*09/10/16 08:02*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*09/10/16 08:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*09/10/16 08:02*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*09/10/16 08:02*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			09/09/16 00:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*105*		*50 - 150*		*09/09/16 00:51*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: GAC-2 FINAL

Lab Sample ID: 490-111235-4

Date Collected: 09/03/16 11:09
Matrix: Water
Date Received: 09/07/16 09:25

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			09/10/16 06:37	1
Ethylbenzene	ND		1.00		ug/L			09/10/16 06:37	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/10/16 06:37	1
Toluene	ND		1.00		ug/L			09/10/16 06:37	1
Xylenes, Total	ND		3.00		ug/L			09/10/16 06:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*09/10/16 06:37*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*09/10/16 06:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*09/10/16 06:37*	*1*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*		*09/10/16 06:37*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			09/09/16 01:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*103*		*50 - 150*		*09/09/16 01:22*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-8

Date Collected: 09/03/16 11:23
Date Received: 09/07/16 09:25

Lab Sample ID: 490-111235-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			09/13/16 04:19	1
Diisopropyl ether	**3.42**		2.00		ug/L			09/13/16 04:19	1
Ethylbenzene	ND		1.00		ug/L			09/13/16 04:19	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/13/16 04:19	1
Methyl tert-butyl ether	**84.4**		1.00		ug/L			09/13/16 04:19	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/13/16 04:19	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/13/16 04:19	1
Toluene	ND		1.00		ug/L			09/13/16 04:19	1
Xylenes, Total	ND		3.00		ug/L			09/13/16 04:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*09/13/16 04:19*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*09/13/16 04:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*09/13/16 04:19*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*		*09/13/16 04:19*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			09/09/16 01:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*103*		*50 - 150*		*09/09/16 01:52*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-9

Lab Sample ID: 490-111235-6

Date Collected: 09/03/16 11:24
Matrix: Water
Date Received: 09/07/16 09:25

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			09/13/16 04:48	1
Diisopropyl ether	**2.34**		2.00		ug/L			09/13/16 04:48	1
Ethylbenzene	ND		1.00		ug/L			09/13/16 04:48	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/13/16 04:48	1
Methyl tert-butyl ether	**189**		1.00		ug/L			09/13/16 04:48	1
Tert-amyl methyl ether	**3.29**		1.00		ug/L			09/13/16 04:48	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/13/16 04:48	1
Toluene	ND		1.00		ug/L			09/13/16 04:48	1
Xylenes, Total	ND		3.00		ug/L			09/13/16 04:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*		*09/13/16 04:48*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*09/13/16 04:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*09/13/16 04:48*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*09/13/16 04:48*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	**129**		100		ug/L			09/09/16 02:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*104*		*50 - 150*		*09/09/16 02:23*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-10

Date Collected: 09/03/16 11:25
Date Received: 09/07/16 09:25

Lab Sample ID: 490-111235-7

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			09/09/16 20:13	1
Diisopropyl ether	ND		2.00		ug/L			09/09/16 20:13	1
Ethylbenzene	ND		1.00		ug/L			09/09/16 20:13	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/09/16 20:13	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/09/16 20:13	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/09/16 20:13	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/09/16 20:13	1
Toluene	ND		1.00		ug/L			09/09/16 20:13	1
Xylenes, Total	ND		3.00		ug/L			09/09/16 20:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*		*09/09/16 20:13*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*09/09/16 20:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*09/09/16 20:13*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*09/09/16 20:13*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			09/09/16 02:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*102*		*50 - 150*		*09/09/16 02:54*	*1*

QC Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-369001/7
Matrix: Water
Analysis Batch: 369001

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			09/09/16 17:23	1
Diisopropyl ether	ND		2.00		ug/L			09/09/16 17:23	1
Ethylbenzene	ND		1.00		ug/L			09/09/16 17:23	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/09/16 17:23	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/09/16 17:23	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/09/16 17:23	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/09/16 17:23	1
Toluene	ND		1.00		ug/L			09/09/16 17:23	1
Xylenes, Total	ND		3.00		ug/L			09/09/16 17:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*09/09/16 17:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*09/09/16 17:23*	*1*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*		*09/09/16 17:23*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*09/09/16 17:23*	*1*

Lab Sample ID: LCS 490-369001/3
Matrix: Water
Analysis Batch: 369001

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	19.31		ug/L		97	70 - 130
Diisopropyl ether	20.0	19.44		ug/L		97	66 - 142
Ethylbenzene	20.0	19.96		ug/L		100	70 - 130
Ethyl tert-butyl ether	20.0	18.25		ug/L		91	63 - 135
Methyl tert-butyl ether	20.0	17.51		ug/L		88	70 - 130
Tert-amyl methyl ether	20.0	18.43		ug/L		92	63 - 135
tert-Butyl alcohol (TBA)	200	187.5		ug/L		94	12 - 150
Toluene	20.0	20.19		ug/L		101	70 - 130
Xylenes, Total	40.0	40.29		ug/L		101	70 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 490-369001/4
Matrix: Water
Analysis Batch: 369001

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	20.0	18.80		ug/L		94	70 - 130	3	12
Diisopropyl ether	20.0	19.13		ug/L		96	66 - 142	2	14
Ethylbenzene	20.0	19.39		ug/L		97	70 - 130	3	12
Ethyl tert-butyl ether	20.0	18.04		ug/L		90	63 - 135	1	15
Methyl tert-butyl ether	20.0	17.98		ug/L		90	70 - 130	3	16

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-369001/4
Matrix: Water
Analysis Batch: 369001

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tert-amyl methyl ether			20.0	18.74		ug/L		94	63 - 135	2	15
tert-Butyl alcohol (TBA)			200	199.5		ug/L		100	12 - 150	6	46
Toluene			20.0	19.37		ug/L		97	70 - 130	4	13
Xylenes, Total			40.0	39.06		ug/L		98	70 - 132	3	11

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*93*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: 490-111019-B-2 MS
Matrix: Water
Analysis Batch: 369001

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	2.75		20.0	25.27		ug/L		113	55 - 147		
Diisopropyl ether	ND		20.0	21.91		ug/L		108	56 - 142		
Ethylbenzene	ND		20.0	23.31		ug/L		115	65 - 139		
Ethyl tert-butyl ether	ND		20.0	19.65		ug/L		98	53 - 138		
Methyl tert-butyl ether	1.60		20.0	19.84		ug/L		91	55 - 141		
Tert-amyl methyl ether	ND		20.0	19.81		ug/L		99	47 - 148		
tert-Butyl alcohol (TBA)	82.6		200	245.1		ug/L		81	10 - 150		
Toluene	ND		20.0	23.85		ug/L		119	64 - 136		
Xylenes, Total	ND		40.0	46.56		ug/L		116	69 - 132		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*93*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

Lab Sample ID: 490-111019-C-2 MSD
Matrix: Water
Analysis Batch: 369001

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	2.75		20.0	24.04		ug/L		106	55 - 147	5	22
Diisopropyl ether	ND		20.0	20.96		ug/L		103	56 - 142	4	22
Ethylbenzene	ND		20.0	22.42		ug/L		110	65 - 139	4	18
Ethyl tert-butyl ether	ND		20.0	19.13		ug/L		96	53 - 138	3	22
Methyl tert-butyl ether	1.60		20.0	19.01		ug/L		87	55 - 141	4	24
Tert-amyl methyl ether	ND		20.0	18.82		ug/L		94	47 - 148	5	23
tert-Butyl alcohol (TBA)	82.6		200	258.1		ug/L		88	10 - 150	5	47
Toluene	ND		20.0	22.67		ug/L		113	64 - 136	5	18
Xylenes, Total	ND		40.0	44.73		ug/L		112	69 - 132	4	17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-111019-C-2 MSD
Matrix: Water
Analysis Batch: 369001

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*93*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

Lab Sample ID: MB 490-369059/7
Matrix: Water
Analysis Batch: 369059

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			09/10/16 06:09	1
Diisopropyl ether	ND		2.00		ug/L			09/10/16 06:09	1
Ethylbenzene	ND		1.00		ug/L			09/10/16 06:09	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/10/16 06:09	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/10/16 06:09	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/10/16 06:09	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/10/16 06:09	1
Toluene	ND		1.00		ug/L			09/10/16 06:09	1
Xylenes, Total	ND		3.00		ug/L			09/10/16 06:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*09/10/16 06:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*09/10/16 06:09*	*1*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*		*09/10/16 06:09*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*09/10/16 06:09*	*1*

Lab Sample ID: LCS 490-369059/3
Matrix: Water
Analysis Batch: 369059

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	20.18		ug/L		101	70 - 130
Diisopropyl ether	20.0	20.05		ug/L		100	66 - 142
Ethylbenzene	20.0	20.65		ug/L		103	70 - 130
Ethyl tert-butyl ether	20.0	18.32		ug/L		92	63 - 135
Methyl tert-butyl ether	20.0	17.27		ug/L		86	70 - 130
Tert-amyl methyl ether	20.0	17.74		ug/L		89	63 - 135
tert-Butyl alcohol (TBA)	200	171.8		ug/L		86	12 - 150
Toluene	20.0	21.09		ug/L		105	70 - 130
Xylenes, Total	40.0	41.42		ug/L		104	70 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-369059/4
Matrix: Water
Analysis Batch: 369059

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	20.0	20.11		ug/L		101	70 - 130	0	12
Diisopropyl ether	20.0	19.70		ug/L		99	66 - 142	2	14
Ethylbenzene	20.0	20.94		ug/L		105	70 - 130	1	12
Ethyl tert-butyl ether	20.0	18.41		ug/L		92	63 - 135	0	15
Methyl tert-butyl ether	20.0	17.23		ug/L		86	70 - 130	0	16
Tert-amyl methyl ether	20.0	18.32		ug/L		92	63 - 135	3	15
tert-Butyl alcohol (TBA)	200	175.4		ug/L		88	12 - 150	2	46
Toluene	20.0	21.31		ug/L		107	70 - 130	1	13
Xylenes, Total	40.0	42.01		ug/L		105	70 - 132	1	11

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*93*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

Lab Sample ID: 490-111235-4 MS
Matrix: Water
Analysis Batch: 369059

Client Sample ID: GAC-2 FINAL
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		20.0	22.07		ug/L		110	55 - 147
Diisopropyl ether	ND		20.0	21.18		ug/L		106	56 - 142
Ethylbenzene	ND		20.0	22.39		ug/L		112	65 - 139
Ethyl tert-butyl ether	ND		20.0	19.18		ug/L		96	53 - 138
Methyl tert-butyl ether	ND		20.0	18.57		ug/L		93	55 - 141
Tert-amyl methyl ether	ND		20.0	18.33		ug/L		92	47 - 148
tert-Butyl alcohol (TBA)	ND		200	168.9		ug/L		84	10 - 150
Toluene	ND		20.0	23.01		ug/L		115	64 - 136
Xylenes, Total	ND		40.0	44.36		ug/L		111	69 - 132

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: 490-111235-4 MSD
Matrix: Water
Analysis Batch: 369059

Client Sample ID: GAC-2 FINAL
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		20.0	20.90		ug/L		104	55 - 147	5	22
Diisopropyl ether	ND		20.0	20.08		ug/L		100	56 - 142	5	22
Ethylbenzene	ND		20.0	21.31		ug/L		107	65 - 139	5	18
Ethyl tert-butyl ether	ND		20.0	18.68		ug/L		93	53 - 138	3	22
Methyl tert-butyl ether	ND		20.0	17.66		ug/L		88	55 - 141	5	24

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-111235-4 MSD — **Client Sample ID: GAC-2 FINAL**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 369059

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tert-amyl methyl ether	ND		20.0	18.74		ug/L		94	47 - 148	2	23
tert-Butyl alcohol (TBA)	ND		200	191.9		ug/L		96	10 - 150	13	47
Toluene	ND		20.0	21.63		ug/L		108	64 - 136	6	18
Xylenes, Total	ND		40.0	42.46		ug/L		106	69 - 132	4	17

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 490-369543/7 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 369543

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			09/13/16 01:57	1
Diisopropyl ether	ND		2.00		ug/L			09/13/16 01:57	1
Ethylbenzene	ND		1.00		ug/L			09/13/16 01:57	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/13/16 01:57	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/13/16 01:57	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/13/16 01:57	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/13/16 01:57	1
Toluene	ND		1.00		ug/L			09/13/16 01:57	1
Xylenes, Total	ND		3.00		ug/L			09/13/16 01:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*09/13/16 01:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*		*09/13/16 01:57*	*1*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*		*09/13/16 01:57*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*09/13/16 01:57*	*1*

Lab Sample ID: LCS 490-369543/3 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 369543

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	19.12		ug/L		96	70 - 130
Diisopropyl ether	20.0	18.95		ug/L		95	66 - 142
Ethylbenzene	20.0	19.46		ug/L		97	70 - 130
Ethyl tert-butyl ether	20.0	17.72		ug/L		89	63 - 135
Methyl tert-butyl ether	20.0	16.97		ug/L		85	70 - 130
Tert-amyl methyl ether	20.0	17.65		ug/L		88	63 - 135
tert-Butyl alcohol (TBA)	200	170.2		ug/L		85	12 - 150
Toluene	20.0	20.07		ug/L		100	70 - 130
Xylenes, Total	40.0	39.14		ug/L		98	70 - 132

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-369543/3
Matrix: Water
Analysis Batch: 369543

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*93*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 490-369543/4
Matrix: Water
Analysis Batch: 369543

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	20.0	20.12		ug/L		101	70 - 130	5	12
Diisopropyl ether	20.0	19.62		ug/L		98	66 - 142	3	14
Ethylbenzene	20.0	20.55		ug/L		103	70 - 130	5	12
Ethyl tert-butyl ether	20.0	17.95		ug/L		90	63 - 135	1	15
Methyl tert-butyl ether	20.0	16.85		ug/L		84	70 - 130	1	16
Tert-amyl methyl ether	20.0	17.80		ug/L		89	63 - 135	1	15
tert-Butyl alcohol (TBA)	200	166.5		ug/L		83	12 - 150	2	46
Toluene	20.0	20.96		ug/L		105	70 - 130	4	13
Xylenes, Total	40.0	41.15		ug/L		103	70 - 132	5	11

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

Lab Sample ID: 490-111235-5 MS
Matrix: Water
Analysis Batch: 369543

Client Sample ID: MW-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		20.0	18.31		ug/L		92	55 - 147
Diisopropyl ether	3.42		20.0	21.04		ug/L		88	56 - 142
Ethylbenzene	ND		20.0	18.51		ug/L		93	65 - 139
Ethyl tert-butyl ether	ND		20.0	16.08		ug/L		80	53 - 138
Methyl tert-butyl ether	84.4		20.0	98.99	4	ug/L		73	55 - 141
Tert-amyl methyl ether	ND		20.0	16.40		ug/L		79	47 - 148
tert-Butyl alcohol (TBA)	ND		200	136.2		ug/L		68	10 - 150
Toluene	ND		20.0	18.87		ug/L		94	64 - 136
Xylenes, Total	ND		40.0	37.12		ug/L		93	69 - 132

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*94*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-111235-5 MSD — **Client Sample ID: MW-8**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 369543

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		20.0	21.80		ug/L		109	55 - 147	17	22
Diisopropyl ether	3.42		20.0	24.81		ug/L		107	56 - 142	16	22
Ethylbenzene	ND		20.0	21.94		ug/L		110	65 - 139	17	18
Ethyl tert-butyl ether	ND		20.0	19.63		ug/L		98	53 - 138	20	22
Methyl tert-butyl ether	84.4		20.0	105.8	4	ug/L		107	55 - 141	7	24
Tert-amyl methyl ether	ND		20.0	19.28		ug/L		94	47 - 148	16	23
tert-Butyl alcohol (TBA)	ND		200	192.8		ug/L		96	10 - 150	34	47
Toluene	ND		20.0	22.12		ug/L		111	64 - 136	16	18
Xylenes, Total	ND		40.0	43.92		ug/L		110	69 - 132	17	17

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Lab Sample ID: MB 490-368464/10 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 368464

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			09/08/16 12:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*107*		*50 - 150*		*09/08/16 12:46*	*1*

Lab Sample ID: LCS 490-368464/6 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 368464

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]			1000	948.7		ug/L		95	66 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*126*		*50 - 150*

Lab Sample ID: LCSD 490-368464/7 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 368464

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]			1000	917.9		ug/L		92	66 - 140	3	42

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) (Continued)

Lab Sample ID: LCSD 490-368464/7
Matrix: Water
Analysis Batch: 368464

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*126*		*50 - 150*

Lab Sample ID: 490-111135-G-8 MS
Matrix: Water
Analysis Batch: 368464

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]	ND		1000	348.1		ug/L		35	33 - 175		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*105*		*50 - 150*

Lab Sample ID: 490-111135-H-8 MSD
Matrix: Water
Analysis Batch: 368464

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		1000	347.8		ug/L		35	33 - 175	0	42

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*103*		*50 - 150*

QC Association Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

GC/MS VOA

Analysis Batch: 369001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-111235-7	MW-10	Total/NA	Water	8260B	
MB 490-369001/7	Method Blank	Total/NA	Water	8260B	
LCS 490-369001/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-369001/4	Lab Control Sample Dup	Total/NA	Water	8260B	
490-111019-B-2 MS	Matrix Spike	Total/NA	Water	8260B	
490-111019-C-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 369059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-111235-1	A/S INF	Total/NA	Water	8260B	
490-111235-2	A/S EFF	Total/NA	Water	8260B	
490-111235-3	GAC-1 EFF	Total/NA	Water	8260B	
490-111235-4	GAC-2 FINAL	Total/NA	Water	8260B	
MB 490-369059/7	Method Blank	Total/NA	Water	8260B	
LCS 490-369059/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-369059/4	Lab Control Sample Dup	Total/NA	Water	8260B	
490-111235-4 MS	GAC-2 FINAL	Total/NA	Water	8260B	
490-111235-4 MSD	GAC-2 FINAL	Total/NA	Water	8260B	

Analysis Batch: 369543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-111235-5	MW-8	Total/NA	Water	8260B	
490-111235-6	MW-9	Total/NA	Water	8260B	
MB 490-369543/7	Method Blank	Total/NA	Water	8260B	
LCS 490-369543/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-369543/4	Lab Control Sample Dup	Total/NA	Water	8260B	
490-111235-5 MS	MW-8	Total/NA	Water	8260B	
490-111235-5 MSD	MW-8	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 368464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-111235-1	A/S INF	Total/NA	Water	8015C	
490-111235-2	A/S EFF	Total/NA	Water	8015C	
490-111235-3	GAC-1 EFF	Total/NA	Water	8015C	
490-111235-4	GAC-2 FINAL	Total/NA	Water	8015C	
490-111235-5	MW-8	Total/NA	Water	8015C	
490-111235-6	MW-9	Total/NA	Water	8015C	
490-111235-7	MW-10	Total/NA	Water	8015C	
MB 490-368464/10	Method Blank	Total/NA	Water	8015C	
LCS 490-368464/6	Lab Control Sample	Total/NA	Water	8015C	
LCSD 490-368464/7	Lab Control Sample Dup	Total/NA	Water	8015C	
490-111135-G-8 MS	Matrix Spike	Total/NA	Water	8015C	
490-111135-H-8 MSD	Matrix Spike Duplicate	Total/NA	Water	8015C	

Lab Chronicle

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: A/S INF — Lab Sample ID: 490-111235-1

Date Collected: 09/03/16 11:19 — **Matrix: Water**
Date Received: 09/07/16 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	369059	09/10/16 07:06	RP	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	368464	09/08/16 23:50	AK1	TAL NSH

Client Sample ID: A/S EFF — Lab Sample ID: 490-111235-2

Date Collected: 09/03/16 11:16 — **Matrix: Water**
Date Received: 09/07/16 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	369059	09/10/16 07:34	RP	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	368464	09/09/16 00:20	AK1	TAL NSH

Client Sample ID: GAC-1 EFF — Lab Sample ID: 490-111235-3

Date Collected: 09/03/16 11:15 — **Matrix: Water**
Date Received: 09/07/16 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	369059	09/10/16 08:02	RP	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	368464	09/09/16 00:51	AK1	TAL NSH

Client Sample ID: GAC-2 FINAL — Lab Sample ID: 490-111235-4

Date Collected: 09/03/16 11:09 — **Matrix: Water**
Date Received: 09/07/16 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	369059	09/10/16 06:37	RP	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	368464	09/09/16 01:22	AK1	TAL NSH

Client Sample ID: MW-8 — Lab Sample ID: 490-111235-5

Date Collected: 09/03/16 11:23 — **Matrix: Water**
Date Received: 09/07/16 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	369543	09/13/16 04:19	AK1	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	368464	09/09/16 01:52	AK1	TAL NSH

Client Sample ID: MW-9 — Lab Sample ID: 490-111235-6

Date Collected: 09/03/16 11:24 — **Matrix: Water**
Date Received: 09/07/16 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	369543	09/13/16 04:48	AK1	TAL NSH

Lab Chronicle

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-9

Lab Sample ID: 490-111235-6
Date Collected: 09/03/16 11:24
Matrix: Water
Date Received: 09/07/16 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015C		1	5 mL	5 mL	368464	09/09/16 02:23	AK1	TAL NSH

Client Sample ID: MW-10

Lab Sample ID: 490-111235-7
Date Collected: 09/03/16 11:25
Matrix: Water
Date Received: 09/07/16 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	369001	09/09/16 20:13	NC	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	368464	09/09/16 02:54	AK1	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
8015C	Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	SW846	TAL NSH

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

Laboratory: TestAmerica Nashville

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Maryland	State Program	3	316	03-31-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8015C		Water	Gasoline Range Organics [C6 - C10]
8260B		Water	Benzene
8260B		Water	Diisopropyl ether
8260B		Water	Ethyl tert-butyl ether
8260B		Water	Ethylbenzene
8260B		Water	Methyl tert-butyl ether
8260B		Water	Tert-amyl methyl ether
8260B		Water	tert-Butyl alcohol (TBA)
8260B		Water	Toluene
8260B		Water	Xylenes, Total

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

490-111235 Chain of Custody

Cooler Received/Opened On 9-7-16 @ 0925

Time Samples Removed From Cooler _____ Time Samples Placed In Storage _____ (2 Hour Window)

1. Tracking # 3663 (last 4 digits, FedEx) Courier: _ FedEx_ ____ _

   IR Gun ID Raynger pH Strip Lot HC58117 Chlorine Strip Lot 71130

2. Temperature of rep. sample or temp blank when opened: 2.6 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES...NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

   If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) PN

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

   Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

   b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) PN

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

   b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) PN

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) PN

I certify that I attached a label with the unique LIMS number to each container (intial) PN

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 12/15/15

180325

BALTIMORE

Chain of Custody Record

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204-3719
phone 615.726.0177 fax 615.726.3404

TestAmerica
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TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

NDP

Client Contact	Project Manager: John Canzeri	Site Contact: Mike Parsons	~~11/10/2015~~	COC No:
AECOM	Tel/Fax: 301-289-3805	Lab Contact: Salomon, Sherry	Carrier:	1 of 1 COCs
8000 Virginia Manor Rd., Suite 110	Analysis Turnaround Time			Sampler: M - Tatson
Beltsville, Maryland 20705	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
301-289-3900 Phone	TAT if different from Below: Standard			Walk-in Client:
301-289-3901 FAX	☐ 2 weeks			Lab Sampling:
Project Name: 32785.Hampstead.EL	☐ 1 week			
Site: 125 Hanover Pike, Hampstead, MD	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			AECOM's Job #60338398

Loc: 490
111235

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	BTEX + Oxy 8260	BTEX/MTBE	TPH-GRO 8015	Sample Specific Notes:
A/S INF	9/3/16	11:19	Grab	W	6	N	N	*		*	
A/S EFF		11:46	Grab	W	6	N	N	*		*	
GAC-1 EFF		11:15	Grab	W	6	N	N	*		*	
GAC-2 FINAL		11:09	Grab	W	6	N	N		*	*	
MW-8		11:23	Grab	W	6	N	N	*		*	
MW-9		11:24	Grab	W	6	N	N	*		*	
MW-10		11:25	Grab	W	6	N	N	*		*	
								2	2	2	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

7-Eleven/AECOM EDD

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by: Parsons	Company: AECOM	Date/Time: 9-5-2016 1023	Received by:	Company: TestAmerica	Date/Time: 9-5-2016 1025
Relinquished by:	Company: TestAmerica	Date/Time: 9/6/16 1730	Received by: 26	Company: TAN	Date/Time: 9-7-16 925
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.6, dated 09/02/2015

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9/14/2016

Login Sample Receipt Checklist

Client: AECOM

Job Number: 490-111235-1
SDG Number: 125 Hanover Pike, Hampstead, MD

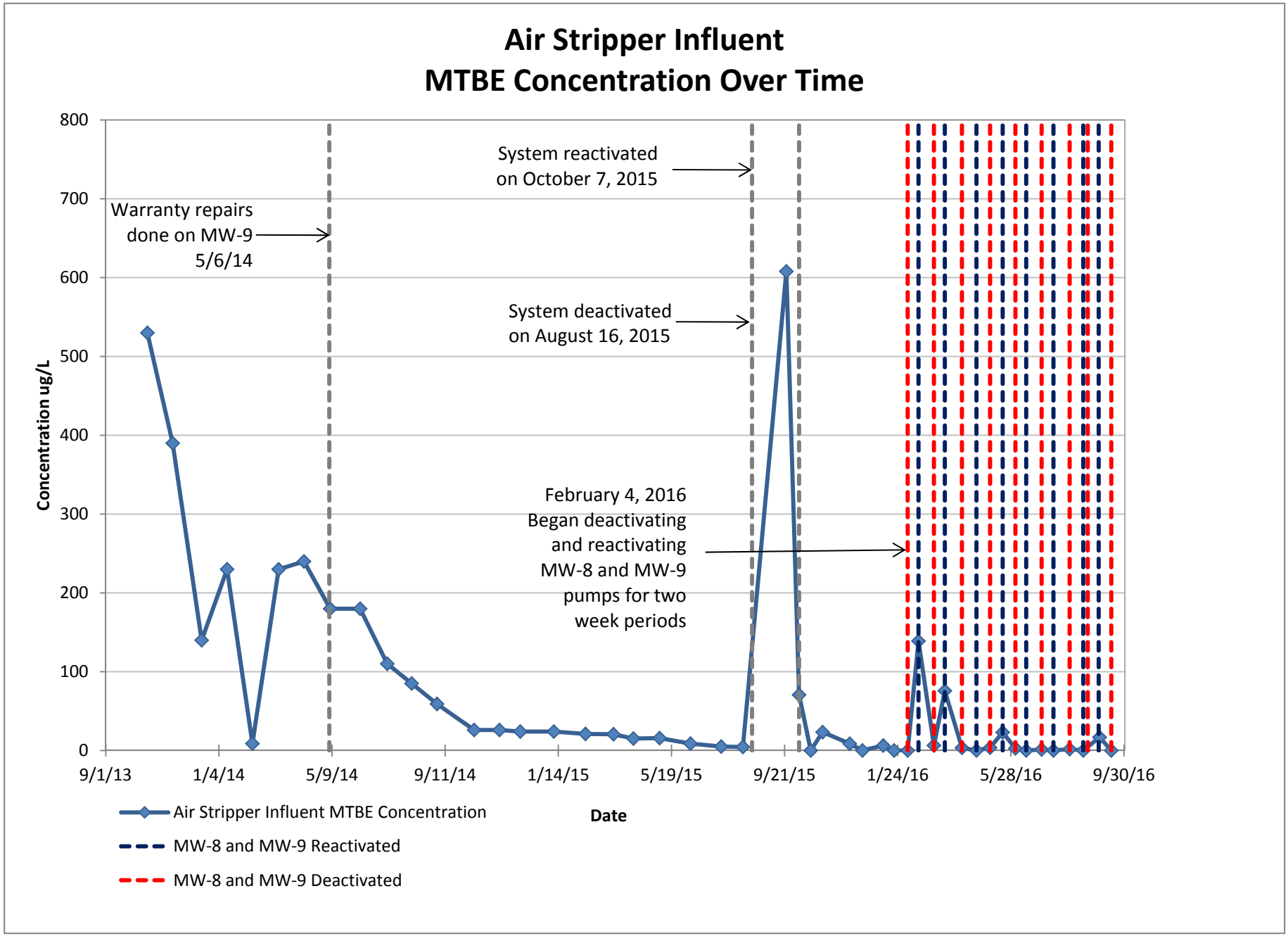
Login Number: 111235
List Number: 1
Creator: Ngo, Phiet

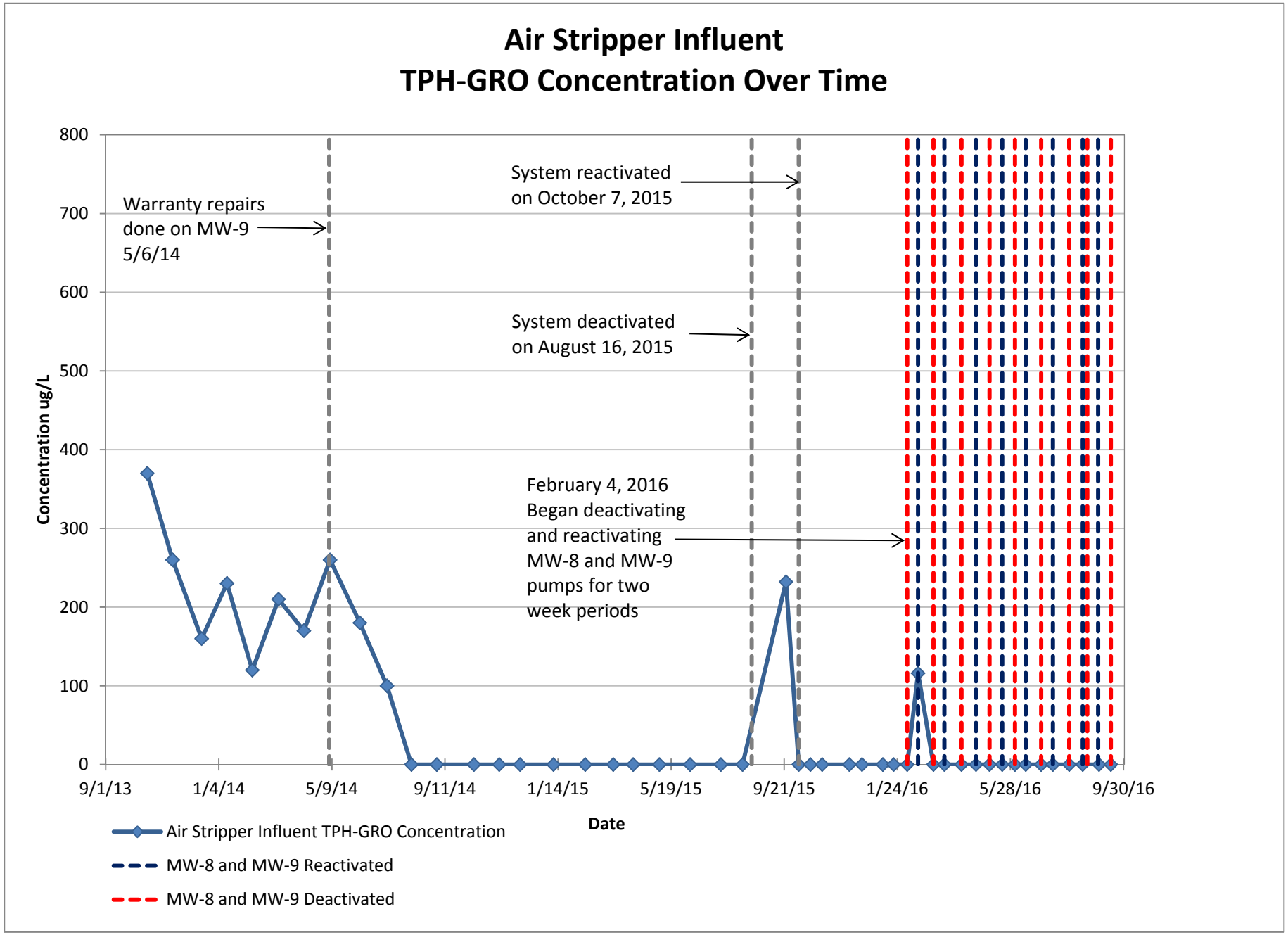
List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ATTACHMENT H

Air Stripper Influent MTBE and TPH-GRO Concentration Graphs Over Time


Air Stripper Influent
MTBE Concentration Over Time
Concentration ug/L
800
700
600
500
400
300
200
100
0
9/1/13
1/4/14
5/9/14
9/11/14
1/14/15
5/19/15
9/21/15
1/24/16
5/28/16
9/30/16
Date
Warranty repairs done on MW-9 5/6/14
System reactivated on October 7, 2015
System deactivated on August 16, 2015
February 4, 2016 Began deactivating and reactivating MW-8 and MW-9 pumps for two week periods
Air Stripper Influent MTBE Concentration
MW-8 and MW-9 Reactivated
MW-8 and MW-9 Deactivated


Air Stripper Influent
TPH-GRO Concentration Over Time
Concentration ug/L
800
700
600
500
400
300
200
100
0
9/1/13
1/4/14
5/9/14
9/11/14
1/14/15
5/19/15
9/21/15
1/24/16
5/28/16
9/30/16
Date
Warranty repairs done on MW-9 5/6/14
System reactivated on October 7, 2015
System deactivated on August 16, 2015
February 4, 2016 Began deactivating and reactivating MW-8 and MW-9 pumps for two week periods
Air Stripper Influent TPH-GRO Concentration
MW-8 and MW-9 Reactivated
MW-8 and MW-9 Deactivated