Semi-Annual Groundwater Monitoring Report
January – June 2020

Royal Farms Store #096
500 Mechanics Valley Road
North East, Maryland 21901

MDE OCP Case No. 2011-0729-CE
Facility ID No. 13326

Prepared for:
Maryland Department of the Environment
Oil Control Program
Attn: Ms. Susan Bull
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Baltimore, Maryland 21230-1719

And

Two Farms, Inc. dba Royal Farms
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Prepared by:
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June 11, 2020

ADVANTAGE ENVIRONMENTAL CONSULTANTS, LLC

Semi-Annual Groundwater Monitoring Report
January – June 2020

Prepared by: Stephen Dessel
Title: Senior Project Manager

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Title: Principal

Regulatory Information

Regulatory Agency:	Maryland Department of the Environment
Agency Contact:	Susan Bull
Case Number:	2011-0729-CE
Facility ID:	13326
Current Case Status:	Semi-Annual Monitoring Well Sampling Quarterly On-Site Potable Well Sampling

General Site Information

Royal Farms Contact:	Tom Ruszin
Consultant Contact:	Jeff Stein
Facility Status:	Operating fuel station
Area Property Use:	See Site Vicinity Map and Site Map (Figures 1 and 2)
Monitoring Wells:	MW-1R, MW-2, MW-4, MW-6, MW-8, MW-9
TFMPs:	TP-1, TP-2, TP-3, and TP-4
Potable Well:	On-Site: 500 Mechanics Valley Road (Permit CE-94-3354)

Activities Completed this Period

Sampling Date:	May 12, 2020
Wells Sampled:	On-Site PW/POET, MW-1R, MW-2, MW-4, MW-6, MW-8, and MW-9
LPH Present:	None
Min/Max GW Elevation:	85.45 feet / 85.85 feet (Figure 3)
GW Flow Direction:	Southwest (Figure 3)

Attachments

Attachment A **Figures**
Figure 1 Site Vicinity Map
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Figure 3 Groundwater Gradient Map
Figure 4 Groundwater Quality Map
Figure 5 Dissolved Benzene Map
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Attachment B **Tables**
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Table 2 Historical Groundwater Analytical Results
Table 3 On-Site Potable Well Treatment System Analytical Results

Attachment C **Benzene, MTBE, Naphthalene, and Total BTEX Concentrations vs. Time for Currently Sampled Monitoring Wells**

Attachment D **Laboratory Analytical Results**

Attachment E **Water Sampler Certifications**

Project Summary

June 8, 2011:	During a routine groundwater sampling event, approximately two-inches of LPH were detected in groundwater monitoring well MW-3.
June 13, 2011:	The MDE opened a case in response to a report of evidence of a petroleum spill at the Site. Enhanced Fluid Recovery (EFR) operations via a vac-truck were implemented.
July 19, 2011:	*Emergency Subsurface Environmental Investigation* Report summarized the collection of soil and groundwater samples from 24 boring locations (B-1 through B-24).
July 22, 2011:	*Corrective Action Plan (CAP)* presented the design for a multi-phase EFR system. The CAP did not provide some necessary final design parameters with regard to feasibility of the technology and process/treatment equipment sizing, it was recommended that a 4- to 8-hour pilot study be conducted using a LRP skid.
Aug. 2, 2011:	*Recovery Well Install Data Pack* summarized the installation of six groundwater recovery (RW-1 thru RW-6) and five groundwater monitoring (MW-4 thru MW-8) wells between July 14 and 19, 2011.
Aug. 3, 2011:	*Corrective Action Plan Addendum* summarized the results of the EFR pilot study using the liquid ring pump (LRP) skid.
Aug. 9, 2011:	*Surfactant Flush Pilot Study Work Plan* described the surfactant injection/extraction means and methods, and pre- and post-flushing groundwater monitoring activities. This plan was not approved by the MDE.
Aug. 24, 2011:	*Receptor Survey – Addendum* summarized the surrounding potable well details.
Sept. 13, 2011:	*Design Basis Summary* summarized the July 27, 2011 EFR pilot study findings. The Design Basis Summary described the dual phase recovery technology which replaced the EFR technology due to water and vapor recovery limitations of the EFR equipment.
Oct. 17, 2011:	*Underground Storage Tank System Closure Report* summarized the UST system removal activities and the excavation oversight and confirmatory sampling associated with this task.
Oct. 21, 2011:	*3rd Quarter 2011 Quarterly Groundwater Monitoring Report* summarized the September 15, 2011 sampling event.
Nov. 4, 2011:	*Bedrock Well Installation Work Plan* summarized the means and methods for the installation of the deep groundwater monitoring wells.
Jan. 10, 2012:	*4th Quarter 2011 Quarterly Groundwater Monitoring Report* summarized the December 14 and December 15, 2011 sampling event.
Jan. 31, 2012:	*Dual Phase System Design Pilot Study Report* summarized the results of the dual phase integrated VE/GE pilot study using pneumatic submersible pumps for liquid removal and a positive displacement vacuum blower for vapor removal.
Feb. 6, 2012:	*Deep Well Installation Data Package* summarized the installation of three deep bedrock wells between January 26 and February 2, 2012.
March 20, 2012:	*Recovery Well Installation Data Package* summarized the installation of seven groundwater recovery (RW-7 thru RW-13) and nine groundwater monitoring (MW-1R and MW-9 thru MW-16) wells between October 13 and 27, 2011.
April 11, 2012:	*Corrective Action Plan – Final* presented the design for the VE/GE system.
April 12, 2012:	*Work Plan for Deep Well Discrete Groundwater Sampling* summarized the testing means and methods for testing discrete intervals of the groundwater column in the deep wells.
April 27, 2012:	*1st Quarter 2012 Quarterly Groundwater Monitoring Report* summarized the March 15, 2012 sampling event.
May 7, 2012:	*Analysis of Borehole Geophysical Surveys Conducted March 7-8, 2012* summarized the deep well borehole geophysics study.
July 12, 2012:	*2nd Quarter 2012 Quarterly Groundwater Monitoring Report* summarized the June 21, 2012 sampling event.
Oct. 10, 2012:	*3rd Quarter 2012 Quarterly Groundwater Monitoring Report* summarized the September 6, 2012 sampling event.

Sept. 17, 2012:	*Addendum to Work Plan for Deep Well Discrete Groundwater Sampling* clarified concerns regarding the Work Plan for Deep Well Discrete Groundwater Sampling, dated April 12, 2012. This document also summarizes the means and methods for the deep well packer testing.
Sept. 20, 2012:	The final EFR event prior to start-up of the VE/GE system was performed. Since initiating this program in June 2011, an estimated 364,258 gallons of total liquids was recovered through the EFR events. Approximately 192.6 gallons of this material was estimated to be LPH.
Nov. 26, 2012:	*Well Gauging Data and Recovery Estimates* summarized the vac-truck EFR work.
Dec. 2012:	VE/GE system installation is completed and the system is started up.
Jan. 7, 2013:	*VE/GE System Initial Report* summarized the systems operation between startup on 12-11-12 through 1-2-13.
Jan. 10, 2013:	*VE/GE System Monthly Update Report for January 2012* summarized the period of operation between 12-11-12 through 1-8-13.
Jan. 14, 2013:	4th Quarter 2012 Discharge Monitoring Report is submitted to the MDE.
Jan. 21, 2013:	*Request for Removal of Control Devices* summarized the system vapor effluent conditions following the 14-day pilot study. This request was made to the Air and Radiation Management Administration (ARMA).
Jan. 22-31, 2013:	Conducted field portion of packer testing task.
Feb. 8, 2013:	*Remedial Action Report and Monthly Update Report* summarized the systems operation between startup on 12-11-12 through 2-7-13.
Feb. 14, 2013:	*Quarterly Progress Report – 4th Quarter 2012 (revised)* outlined VE/GE System operation and recovery estimates between 12-12-12 and 12-31-12, as well as groundwater and potable well sampling procedures and results for the quarter.
March 6, 2013:	*Vapor Extraction/Groundwater Extraction System – Third Monthly Update Report* summarized the systems operation between 2-8-13 and 3-6-13.
March 14, 2013:	*Packer Testing Report* summarized the findings of the Packer testing which was conducted in January 2013.
March 28, 2013	*Corrective Action Plan Addendum (CAPA)* is submitted to MDE to provide remedial goals for the Site and propose completion dates, submission dates, and/or schedules for investigative and remedial work and reporting thereon.
April 16, 2013:	1st Quarter Discharge Monitoring Report is submitted to the MDE.
April 22, 2013:	1st Quarter 2013 potable well sampling results submitted to the Cecil County Health Department.
May 7, 2013:	*Quarterly Progress Report – 1st Quarter 2013* outlined VE/GE System operation and recovery estimates between 1-1-13 and 3-31-13, as well as groundwater and potable well sampling procedures and results for the quarter.
May 29, 2013:	CAPA response from MDE approved a change in the quarterly groundwater sampling procedure to allow the purge and sample method. In addition, the letter approved a HydraSleeve sampling approach to the deep monitoring wells and required a groundwater level study to be completed following the next quarterly sampling event.
July 8, 2013:	2nd Quarter 2013 potable well sampling results submitted to the Cecil County Health Department.
July 9, 2013:	2nd Quarter Discharge Monitoring Report is submitted to the MDE.
August 8, 2013:	*Quarterly Progress Report –2nd Quarter 2013* outlined VE/GE System operation and recovery estimates between 4-1-13 and 6-30-13, as well as groundwater and potable well sampling procedures and results for the quarter.
October 8, 2013:	3rd Quarter 2013 potable well sampling results submitted to the Cecil County Health Department. 3rd Quarter Discharge Monitoring Report is submitted to the MDE.
October 21, 2013:	*Quarterly Progress Report and Water Level Study–3rd Quarter 2013* outlined VE/GE System operation and recovery estimates between 7-1-13 and 9-30-13, as well as groundwater and potable well sampling procedures and results for the quarter.
January 29, 2014:	4th Quarter 2013 potable well sampling results submitted to the Cecil County Health Department. 4th Quarter Discharge Monitoring Report is submitted to the MDE.

February 12, 2014:	*Quarterly Progress Report – 4th Quarter 2013* outlined VE/GE System operation and recovery estimates between 10-1-13 and 12-31-13, as well as groundwater and potable well sampling procedures and results for the quarter.
March 14, 2014:	1st Quarter 2014 potable well sampling results submitted to the Cecil County Health Department.
April 1, 2014:	MDE issued a *Site Status Letter* approving a request to require quarterly sampling of the regularly sampled supply wells. The MDE approved the beginning of AEC's proposed 8-week pulsing trial of the VE portion of the VE/GE System. The *Site Status Letter* also required the beginning of semi-annual collection of samples for analysis of natural attenuation parameters.
April 30, 2014:	1st Quarter - 2014 Discharge Monitoring Report is submitted to the MDE.
May 5, 2014:	*Quarterly Progress Report –1st Quarter 2014* outlined VE/GE System operation and recovery estimates between 1-1-14 and 3-31-14, as well as groundwater and potable well sampling procedures and results for the quarter.
May 9, 2014:	MDE approves a request by AEC to extend the trial pulsing by four weeks for a total of twelve weeks.
May 27, 2014:	MDE approves a request by AEC to modify sampling of MW-10D and MW-12D. The modification includes sampling of MW-10D at 91.5 feet and MW-12D at 147.5 feet intervals only. MW13D will continue to be sampled at shallow and deep intervals. All previously sampled intervals within all three wells will be sampled annually.
June 26, 2014:	2nd Quarter 2014 potable well sampling results submitted to the Cecil County Health Department.
July 24, 2014:	2nd Quarter - 2014 Discharge Monitoring Report is submitted to the MDE. *Quarterly Progress Report –2nd Quarter 2014* outlined VE/GE System operation and recovery estimates between 4-1-14 and 6-30-14, as well as groundwater and potable well sampling procedures and results for the quarter.
Aug. 14, 2014:	MDE authorizes continuation of a pulsed approach to vapor extraction.
Oct. 7, 2014:	3rd Quarter - 2014 Discharge Monitoring Report is submitted to the MDE.
Oct. 23, 2014:	3rd Quarter 2014 potable well sampling results submitted to the Cecil County Health Department.
Oct. 24, 2014:	MDE authorizes a modification of Monitored Natural Attenuation (MNA) sampling requirements. Samples will be collected for MNA parameters from monitoring wells (MW-6. MW-7, MW-8, MW-9 and MW-11) semi-annually.
Nov. 6, 2014:	Quarterly Progress Report –3rd Quarter 2014 outlined VE/GE System operation and recovery estimates between 7-1-14 and 9-30-14, as well as groundwater and potable well sampling procedures and results for the quarter.
January 9, 2015:	3rd Quarter - 2014 Discharge Monitoring Report is submitted to the MDE.
January 6, 2015:	3rd Quarter 2014 potable well sampling results submitted to the Cecil County Health Department.
February 15, 2015:	Quarterly Progress Report – 4th Quarter 2014 outlined VE/GE System operation and recovery estimates between 10-1-14 and 12-31-14, as well as groundwater and potable well sampling procedures and results for the quarter.
February 25, 2015:	AEC submits a *Rebound Evaluation Work Plan* outlining monitoring procedures and decision making criteria for a conditional discontinuation of operation of the VE/GE system.
March 27, 2015:	AEC submits request for Modification of Water Supply Well Sampling Schedule.
April 13, 2015:	1st Quarter - 2015 Discharge Monitoring Report is submitted to the MDE.
May 14, 2015:	*Quarterly Progress Report –1st Quarter 2015* outlined VE/GE System operation and recovery estimates between 1-1-15 and 3-31-15, as well as groundwater and potable well sampling procedures and results for the quarter.
May 21, 2015:	MDE issues *Rebound Evaluation Work Plan Approval* letter.
May 27, 2015:	VE/GE System shutdown to begin round one of the Rebound Assessment.
July 8, 2015:	*Rebound Evaluation – Month One* report submitted to MDE.
July 10, 2015:	2nd Quarter - 2015 Discharge Monitoring Report is submitted to the MDE.
July 23, 2015:	*Rebound Evaluation – Month Two* report submitted to MDE.

August 5, 2015:	VE/GE System is restarted based on results of the rebound evaluation.
August 7, 2015:	*Quarterly Progress Report – 2nd Quarter 2015* is submitted to the MDE.
August 28, 2015:	*Rebound Evaluation – Month Three* report submitted to MDE.
September 4, 2015:	VE/GE System is shut down to begin Round Two of the rebound evaluation.
October 15, 2015:	3rd Quarter - 2015 Discharge Monitoring Report is submitted to the MDE.
November 3, 2015:	*Rebound Evaluation – Round Two – Months One and Two* report submitted to MDE.
November 13, 2015:	*Quarterly Progress Report – 3rd Quarter 2015* is submitted to the MDE.
December 9, 2015:	*Rebound Evaluation – Round Two - Month Three* submitted to MDE.
December 18, 2015:	*Site Redevelopment and Proposed Well Abandonment – December 18, 2015* submitted to MDE requesting abandonment of MW-11, MW-12D, and MW-16.
January 8, 2016:	*Rebound Evaluation – Round Two - Month Four* submitted to MDE.
January 11, 2016:	4th Quarter 2015 potable well sampling results submitted to the Cecil County Health Department.
January 15, 2016:	4th Quarter - 2015 Discharge Monitoring Report is submitted to the MDE.
February 8, 2016:	MDE issues *Site Status Letter* which lifts sampling and treatment requirements potable water for 505 and 513 Mechanics Valley Road. Approval to abandon MW-11 and MW-16.
February 15, 2016:	*Quarterly Progress Report – 4th Quarter 2015* and *Rebound Evaluation – Round Two - Month Five are* submitted to the MDE.
March 4, 2016:	*Rebound Evaluation – Round Two - Month Six* submitted to MDE.
March 16, 2016:	Monitoring wells MW-11 and MW-16 are abandoned.
April 2, 2016:	1st Quarter - 2016 Discharge Monitoring Report is submitted to the MDE.
May 2, 2016:	1st Quarter 2016 potable well sampling results submitted to the Cecil County Health Department.
May 13, 2016:	*Quarterly Progress Report – 1st Quarter 2016* and *Rebound Evaluation – Round Two - Month Six are* submitted to the MDE.
May 2, 2016:	1st Quarter 2016 potable well sampling results submitted to the Cecil County Health Department.
June 21, 2016:	*Rebound Evaluation – Round Two - Month Nine* submitted to MDE.
July 6, 2016:	2nd Quarter - 2016 Discharge Monitoring Report submitted to the MDE.
August 10, 2016:	*Quarterly Progress Report – 2nd Quarter 2016* and is submitted to the MDE.
August 11, 2016:	2nd Quarter 2016 potable well sampling results submitted to the Cecil County Health Department.
October 20, 2016:	*Rebound Evaluation Completion Report* submitted to MDE.
November 7, 2016:	*Quarterly Progress Report – 3rd Quarter 2016* and is submitted to the MDE.
November 7, 2016:	3rd Quarter 2016 potable well sampling results submitted to the Cecil County Health Department.
December 29, 2016:	4th Quarter 2016 potable well sampling results submitted to the Cecil County Health Department.
February 7, 2017:	AEC submits *Rebound Study Soil Investigation Work Plan* to the MDE.
February 10, 2017:	*Quarterly Progress Report – 4th Quarter 2016* and is submitted to the MDE.
March 29, 2017:	MDE issues a *Work Plan Approval* letter approving AEC's *Rebound Study Soil Investigation Work Plan* with comments.
April 20 and 26, 2017:	Soil Investigation is performed in the area of the release.
May 9, 2016:	1st Quarter 2017 potable well sampling results submitted to the Cecil County Health Department.
May 15, 2017:	*Quarterly Progress Report – 1st Quarter 2017 is* submitted to the MDE.
July 20, 2017:	2nd Quarter 2017 potable well sampling results submitted to the Cecil County Health Department.
August 8, 2017:	Rebound Study Soil Investigation Report Submitted to the MDE
August 15, 2017:	*Quarterly Progress Report – 2nd Quarter 2017* is submitted to the MDE.
September 26, 2017:	3rd Quarter 2017 potable well sampling results submitted to the Cecil County Health Department.
November 15, 2017:	*Quarterly Progress Report – 3rd Quarter 2017* is submitted to the MDE.

December 18, 2017:	4th Quarter 2017 potable well sampling results submitted to the Cecil County Health Department.
January 11, 2018:	*Quarterly Progress Report – 4th Quarter 2017* is submitted to the MDE.
February 6, 2018:	MDE issues *RE: Request for Monitoring Well Abandonment*
February 23, 2018:	*Request for Clarification – Offsite Potable Well Sampling* submitted to MDE
March 26, 2018:	Well Abandonment Letter Submitted to MDE
June 15, 2018:	2nd Quarter 2018 potable well sampling results submitted to the Cecil County Health Department.
July 10, 2018:	*Semiannual Progress Report January – June 2018* is submitted to the MDE.
August 20, 2018:	3rd Quarter 2018 potable well sampling results submitted to the Cecil County Health Department.
December 5, 2018:	4th Quarter 2018 potable well sampling results submitted to the Cecil County Health Department.
January 7, 2019:	*Semiannual Progress Report July – December 2018* is submitted to the MDE.
April 16, 2019:	1st Quarter 2019 potable well sampling results submitted to the Cecil County Health Department.
August 6, 2019:	2nd Quarter 2019 potable well sampling results submitted to the Cecil County Health Department.
August 16, 2019:	*Semiannual Progress Report January – June 2019* is submitted to the MDE.
October 21, 2019:	Royal Farms submits “Request for Case Closure” to the MDE.
December 12, 2019:	November 2019 potable well sampling results submitted to the Cecil County Health Department.
December 12, 2019:	*Semiannual Progress Report July – December 2019* is submitted to the MDE.
June 11, 2020:	*Semiannual Groundwater Monitoring Report January – June 2020* is submitted to the MDE.

Introduction

As required by the Maryland Department of the Environment (MDE), Advantage Environmental Consultants, LLC (AEC) has completed sampling of the groundwater monitoring wells and the On-Site potable well in accordance with Code of Maryland Regulations (COMAR) 26.10.01.03-4 and "Regulatory Letter" for Case # 2011-0729-CE.

Figure 1 in Attachment A illustrates the Site vicinity. Figure 2 in Attachment A illustrates the groundwater monitoring well, tank field monitoring pipes (TFMPs), and On-Site potable well locations. The following is a description of this work and the results of the recent groundwater sampling effort.

Groundwater Gauging, Sampling, and Analysis

Groundwater levels within each monitoring well were measured using a water level indicator accurate to 0.01 feet. The water level indicator was cleaned (Liquinox and water rinse) prior to use in each well. Each monitoring well was checked for the presence of liquid phase hydrocarbons (LPH) using a dedicated, disposable sampling bailer. No LPH was observed in any of the monitoring wells. Monitoring well gauging data is summarized in Table 1 of Attachment B and on Figure 4 of Attachment A.

The groundwater samples were collected on May 12, 2020 and analyzed according to Environmental Protection Agency (EPA) protocols. Groundwater samples were collected from the monitoring wells by first gauging and purging at least three well volumes using a PVC bailer which was cleaned prior to use in each well. After purging, each well was allowed to recharge for a period of at least one hour prior to sampling. The monitoring well samples were collected using a dedicated disposable sampling bailer. Each sample was placed in 40-milliliter glass vials with Teflon-lined septa and preserved with hydrochloric acid, as appropriate. Once collected, the samples were placed on ice in a cooler to await shipment to the laboratory. The samples were analyzed for volatile organic compounds (VOCs) including fuel oxygenates per EPA Method 8260.

Laboratory analytical results from monitoring well MW-1R show that all analytes were below laboratory quantitation limits (BQL).

Laboratory analytical results from monitoring well MW-2 show that all analytes were BQL.

Laboratory analytical results from monitoring well MW-4 show that all analytes were BQL.

Laboratory analytical results from monitoring well MW-6 show that all analytes were BQL.

Laboratory analytical results from monitoring well MW-8 show a concentration of benzene above the MDE Cleanup Standard for Type I and II Aquifers dated October 2018 (Regulatory Standard). Laboratory analytical results for this sample also show detectable concentrations of tert-amyl alcohol (TAA), ethylbenzene, and 1,2,4-trimethylbenzene. All other analytes were BQL.

Laboratory analytical results from monitoring well MW-9 show a concentration of naphthalene above the Regulatory Standard. All other analytes were BQL.

A Groundwater Quality Map is included as Figure 4 in Attachment A. A Benzene Isocontour Map is included as Figure 5 in Attachment A. A Naphthalene Isocontour Map is included as Figure 6 in Attachment A. Table 2 in Attachment B summarizes current and historical groundwater analytical results. Historical groundwater analytical results for each sampled monitoring well are depicted on graphs in Attachment C. The laboratory analytical report is included in Attachment D.

On-Site Potable Well/Point of Entry Treatment Sampling and Analysis

Samples from the potable well point of entry treatment (POET) system were collected on May 12, 2020 from the system's influent (PW-1), midpoints (PW-2a and PW-2b), and effluent (PW-3). All potable well samples were obtained after purging the system for 15 minutes.

Each sample was placed in 40-milliliter glass vials with Teflon-lined septa and preserved with hydrochloric acid, as appropriate. Once collected, the samples were placed on ice in a cooler to await shipment to the laboratory. The samples were analyzed for VOCs including fuel oxygenates per EPA Method 524.2. The sampling was conducted by AEC staff, certified by the MDE to collect public drinking water samples. Water Sampler Certification information is included in Attachment E.

Laboratory analytical results for POET sample PW-1 show a concentration of methyl tert-butyl ether (MTBE) below the Regulatory Standard. All other analytes were BQL.

Laboratory analytical results for POET sample PW-2a show that all analytes were BQL.

Laboratory analytical results for POET sample PW-2b show that all analytes were BQL.

Laboratory analytical results for POET sample PW-3 show that all analytes were BQL.

Table 3 in Attachment B summarizes current and historical On-Site potable well analytical results.

Tank Field Monitoring Pipe Evaluation

AEC performed a semiannual evaluation of the TFMPs. AEC screened each TFMP with a photoionization detector (PID) for the presence of petroleum hydrocarbon vapors. A plastic covering was securely fastened over each TFMP, and allowed to sit for a period of 15 minutes. The plastic barrier was then punctured with the PID nozzle, and a reading was taken. No hydrocarbon vapors were detected in TP-1, TP-2, TP-3, or TP-4. The TFMPs were gauged for depth-to-water using a water level indicator and checked for the presence of LPH using a dedicated, disposable sampling bailer. LPH was not detected in any of the TFMPs.

Attachment A

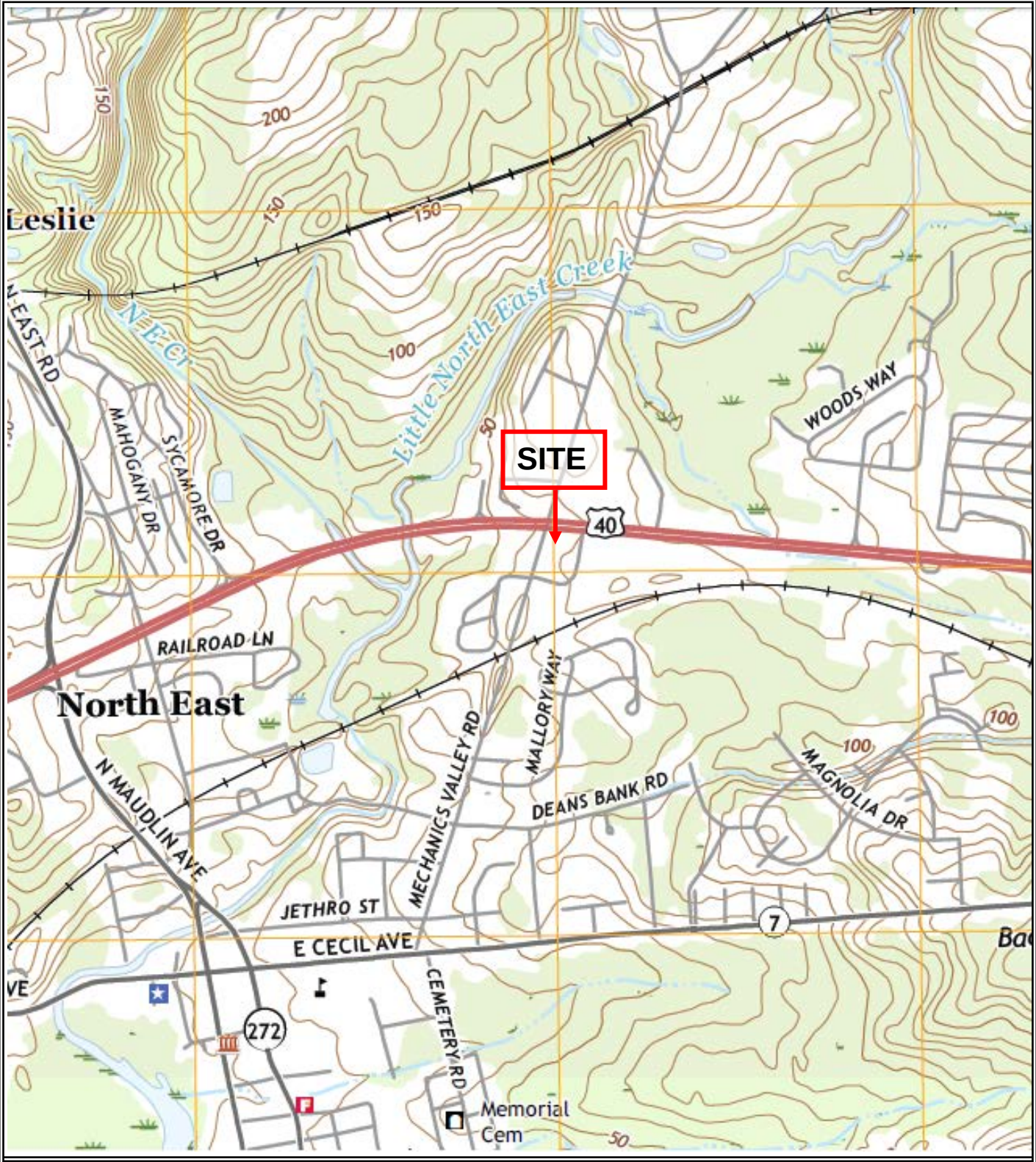

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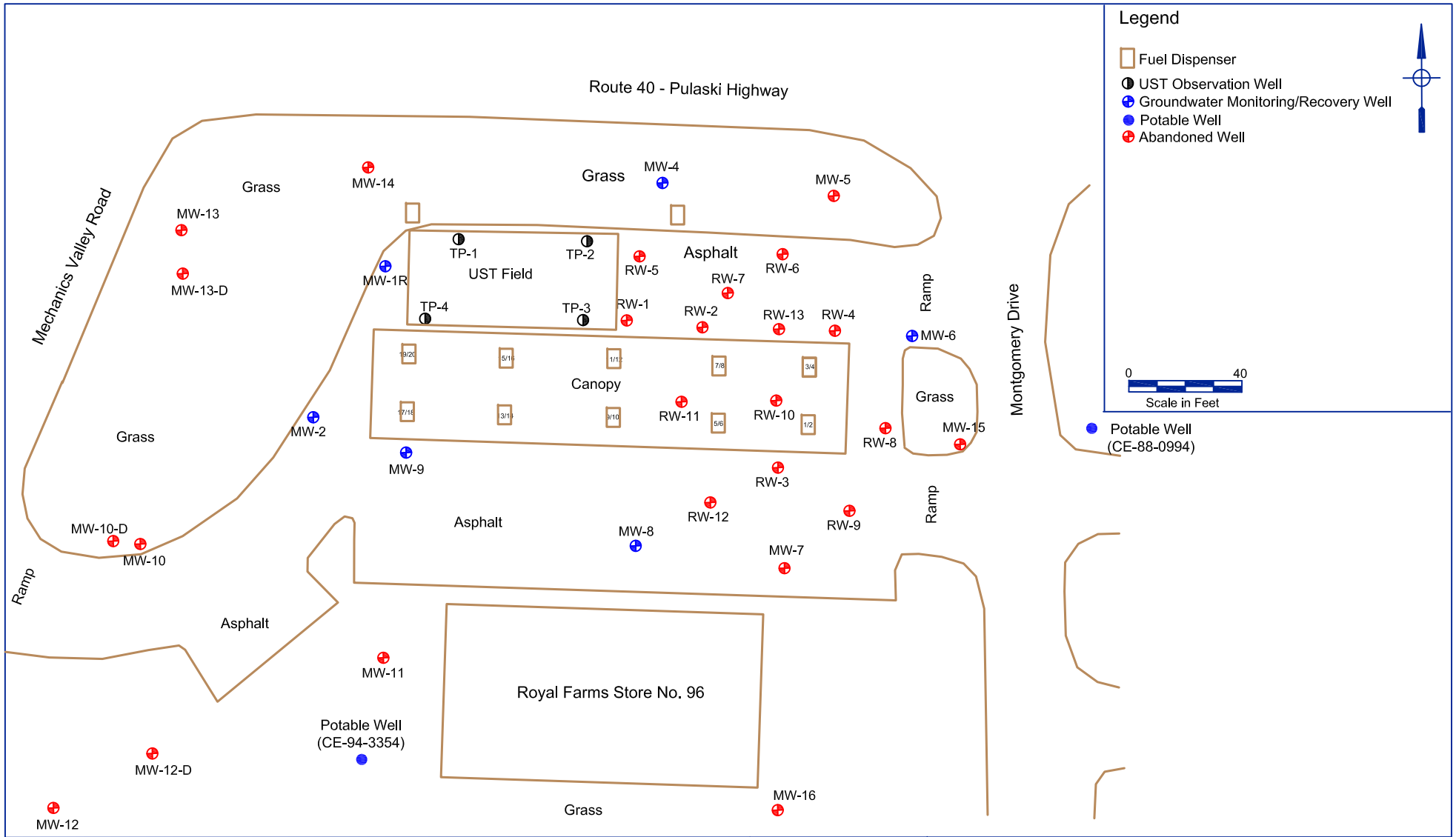
Figure 1 – Site Vicinity Map
7.5-Minute Series, North East, MD Quadrangle dated 2019
Royal Farms #096
500 Mechanics Valley Road
North East, MD 21901

AEC Project No.:	Report Date:	Drawn By:
05-056, RF096	June 2020	STD



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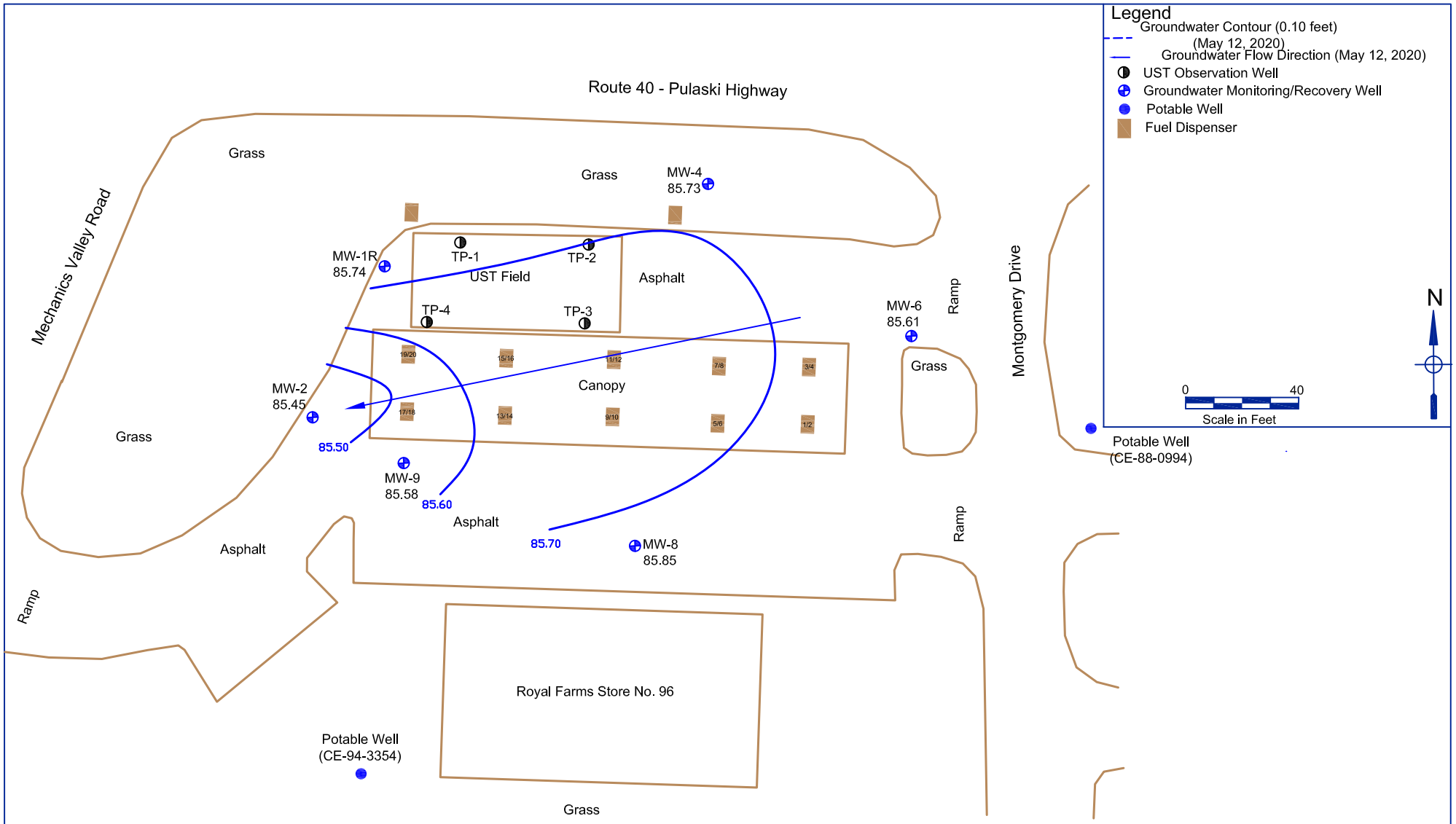
Project No.: 05-056	Drawn by: STD
Task No.: RF96	Date: June 2020
File: Site Features	Revision No.: 2

Figure 2 - Site Features Map
Royal Farms No. 96
500 Mechanics Valley Road
North East, MD



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Task No.: RF96	Date: June 2020
File: Site Features	Revision No.: 1

Figure 3 - Groundwater Gradient Map
Royal Farms No. 96
500 Mechanics Valley Road
North East, MD

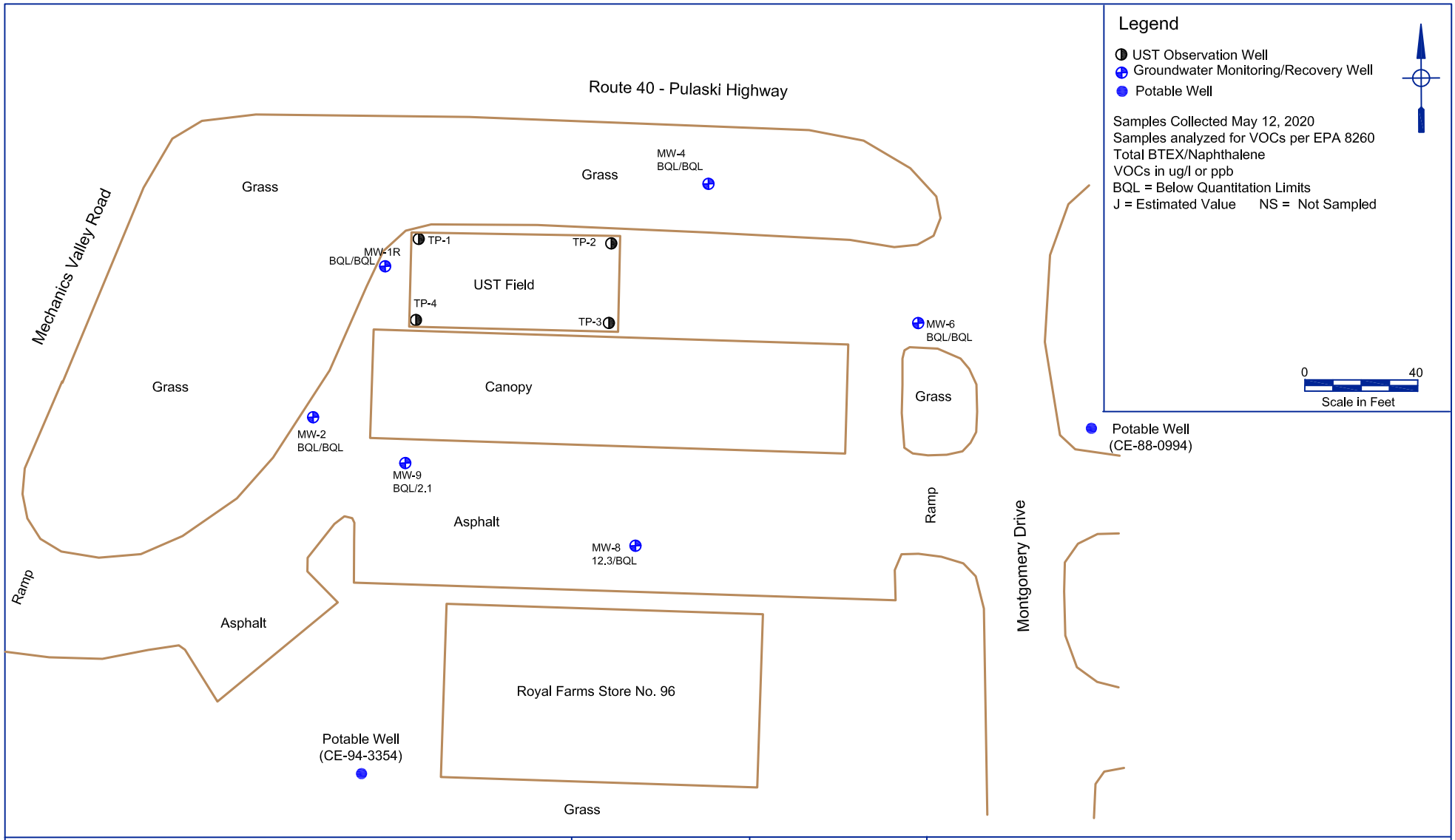

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Figure 4 - Groundwater Quality Map
Royal Farms No. 96
500 Mechanics Valley Road
North East, MD

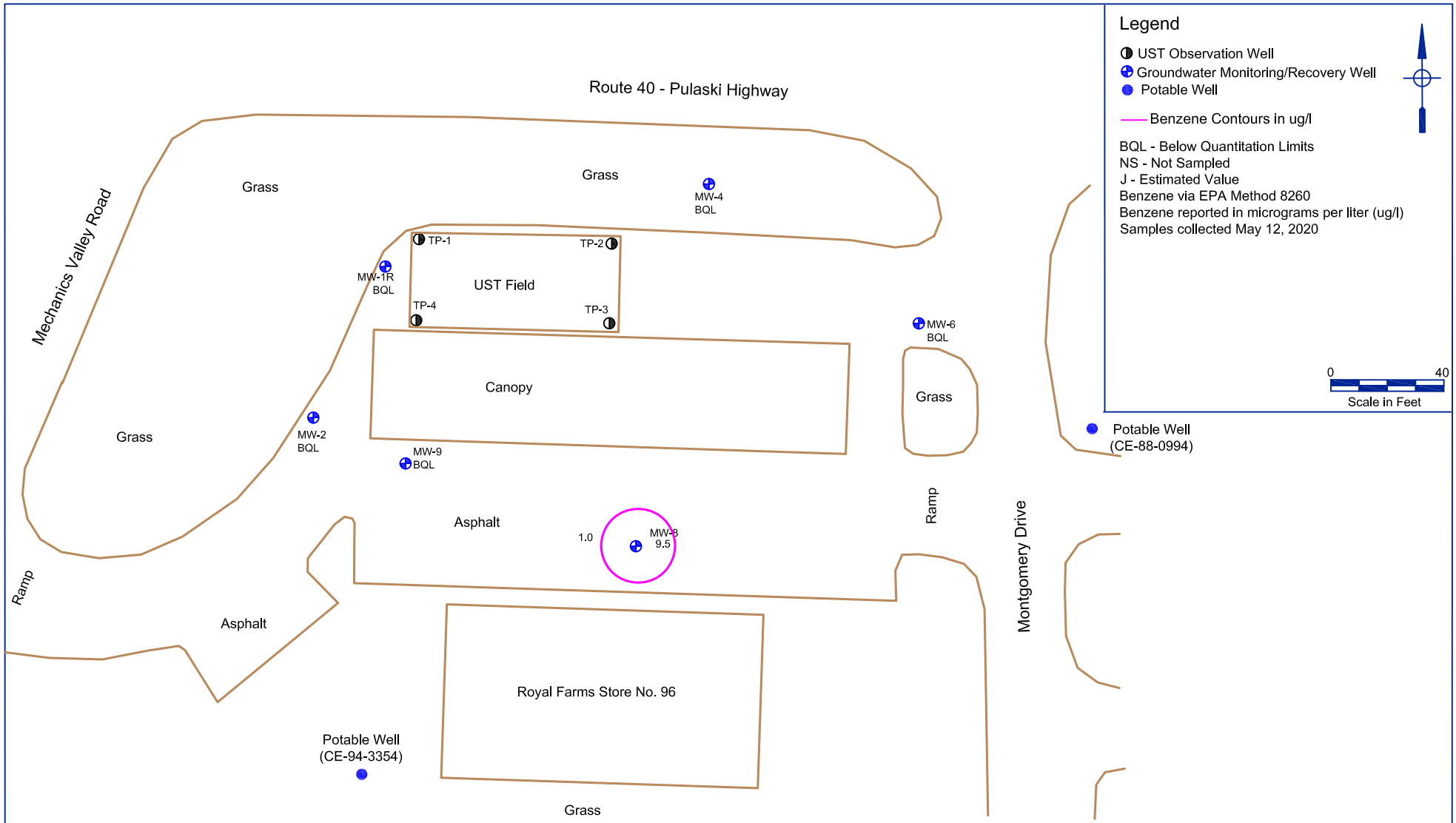

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Figure 5 - Groundwater Quality Map - Dissolved Benzene
Royal Farms No. 96
500 Mechanics Valley Road
North East, MD

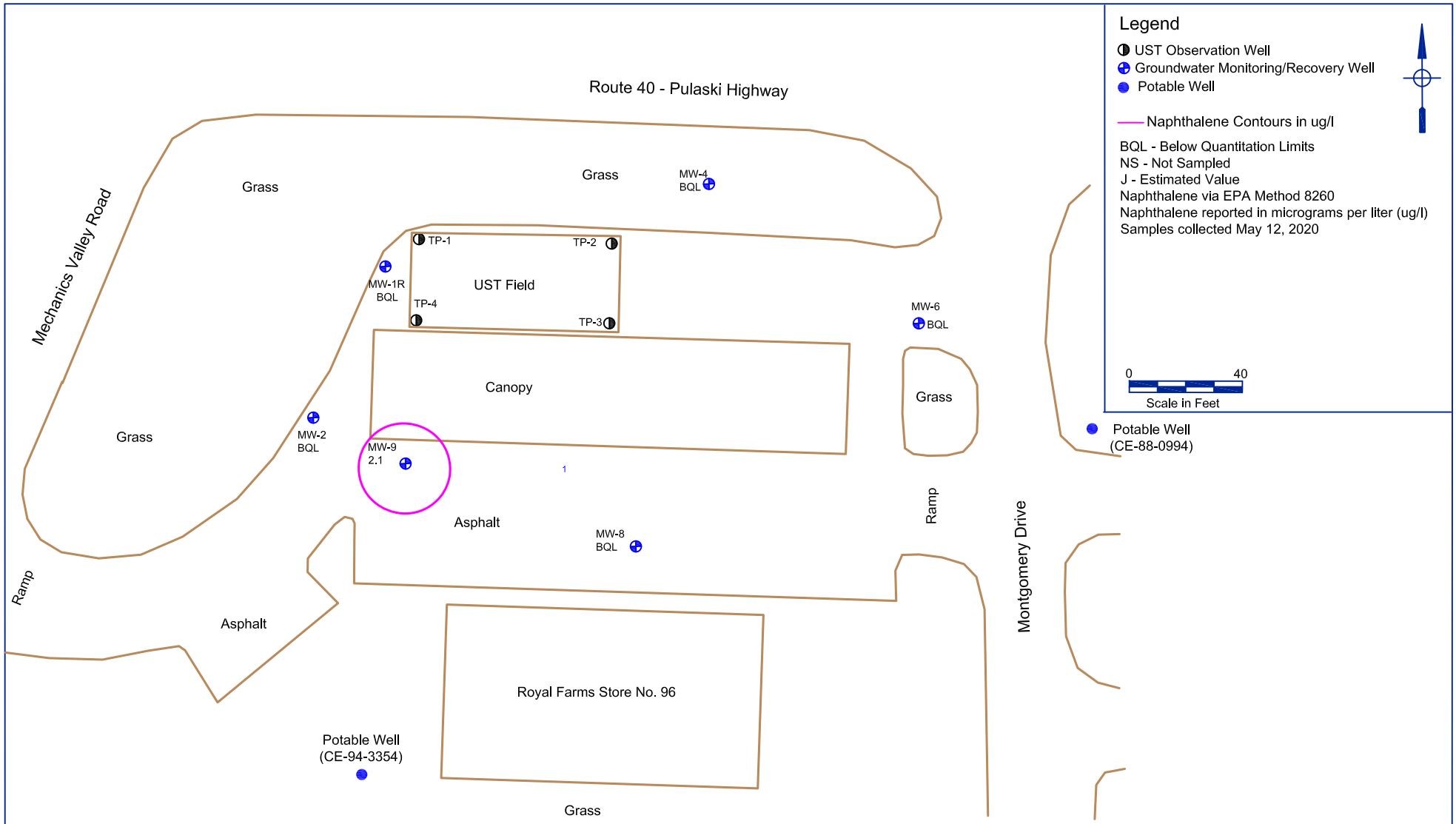

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Figure 6 - Groundwater Quality Map - Dissolved Naphthalene
Royal Farms No. 96
500 Mechanics Valley Road
North East, MD

Attachment B

Table 1 - Well Gauging Summary
Gasoline Fueling Station – Royal Farms No. 96
500 Mechanic Valley Road, North East, Maryland 21901

Well ID	Date	Depth to Water	Depth to LPH	TOC Elevation	Water Elevation	LPH Elevation	Corrected Water Elevation	LPH Thickness	Comments	Vacuum Pressure
MW-1R	12/10/2012	11.08	ND	94.74	83.66	NA	NA	NA		NA
	12/11/2012	12.20	ND	94.74	82.54	NA	NA	NA		0.2
	12/20/2012	13.77	ND	94.74	80.97	NA	NA	NA		0.1
	12/24/2012	13.00	ND	94.74	81.74	NA	NA	NA		0.1
	1/4/2013	14.00	ND	94.74	80.74	NA	NA	NA		0.1
	1/8/2013	14.20	ND	94.74	80.54	NA	NA	NA		0.1
	1/15/2013	13.32	ND	94.74	81.42	NA	NA	NA		0.6
	1/25/2013	11.89	ND	94.74	82.85	NA	NA	NA		
	1/29/2013	11.68	ND	94.74	83.06	NA	NA	NA		
	2/7/2013	12.59	ND	94.74	82.15	NA	NA	NA		
	2/14/2013	12.64	ND	94.74	82.10	NA	NA	NA		
	2/21/2013	12.08	ND	94.74	82.66	NA	NA	NA		
	2/27/2013	12.99	ND	94.74	81.75	NA	NA	NA		
	3/7/2013	13.30	ND	94.74	81.44	NA	NA	NA		
	4/18/2013	13.11	ND	94.74	81.63	NA	NA	NA		
	5/30/2013	12.41	ND	94.74	82.33	NA	NA	NA		
	5/31/2013	12.47	ND	94.74	82.27	NA	NA	NA		
	6/14/2013	10.96	ND	94.74	83.78	NA	NA	NA		
	7/23/2013	10.09	ND	94.74	84.65	NA	NA	NA		
	8/2/2013	9.82	ND	94.74	84.92	NA	NA	NA		
	8/13/2013	10.09	ND	94.74	84.65	NA	NA	NA		
	9/3/2013	9.47	ND	94.74	85.27	NA	NA	NA	System off: water level study	
	9/10/2013	9.65	ND	94.74	85.09	NA	NA	NA	System off: water level study	
	9/16/2013	11.27	ND	94.74	83.47	NA	NA	NA		
	10/24/2013	11.22	ND	94.74	83.52	NA	NA	NA		
	11/6/2013	11.74	ND	94.74	83.00	NA	NA	NA		
	11/7/2013	11.13	ND	94.74	83.61	NA	NA	NA	System off for sampling	
	12/4/2013	12.22	ND	94.74	82.52	NA	NA	NA		
	1/13/2014	11.88	ND	94.74	82.86	NA	NA	NA		
	2/10/2014	11.11	ND	94.74	83.63	NA	NA	NA		
	2/11/2014	10.79	ND	94.74	83.95	NA	NA	NA		
	3/13/2014	10.34	ND	94.74	84.40	NA	NA	NA		
	4/9/2014	10.22	ND	94.74	84.52	NA	NA	NA		
	5/22/2014	9.48	ND	94.74	85.26	NA	NA	NA		
	6/4/2014	10.93	ND	94.74	83.81	NA	NA	NA		
	7/1/2014	11.15	ND	94.74	83.59	NA	NA	NA		
	8/14/2014	11.89	ND	94.74	82.85	NA	NA	NA		
	8/15/2014	11.11	ND	94.74	83.63	NA	NA	NA		
	9/10/2014	11.77	ND	94.74	82.97	NA	NA	NA		
	10/8/2014	11.66	ND	94.74	83.08	NA	NA	NA		
	11/5/2014	11.55	ND	94.74	83.19	NA	NA	NA		
	11/6/2014	11.27	ND	94.74	83.47	NA	NA	NA	System off for sampling	
	12/4/2014	12.16	ND	94.74	82.58	NA	NA	NA		
	1/7/2015	11.78	ND	94.74	82.96	NA	NA	NA		0.22
	2/25/2015	10.67	ND	94.74	84.07	NA	NA	NA		
	5/13/2015	10.05	ND	94.74	84.69	NA	NA	NA		
	5/28/2015	9.89	ND	94.74	84.85	NA	NA	NA		
	8/26/2015	10.20	ND	94.74	84.54	NA	NA	NA		
	9/8/2015	10.21	ND	94.74	84.53	NA	NA	NA		
	11/6/2015	10.69	ND	94.74	84.05	NA	NA	NA		
	2/17/2016	9.39	ND	94.74	85.35	NA	NA	NA		
	5/19/2016	9.38	ND	94.74	85.36	NA	NA	NA		
	8/15/2016	10.20	ND	94.74	84.54	NA	NA	NA		
	11/30/2016	11.18	ND	94.74	83.56	NA	NA	NA		
	2/16/2017	10.66	ND	94.74	84.08	NA	NA	NA		
	5/24/2017	9.45	ND	94.74	85.29	NA	NA	NA		
	8/23/2017	9.40	ND	94.74	85.34	NA	NA	NA		
	11/9/2017	10.36	ND	94.74	84.38	NA	NA	NA		
	5/18/2018	9.20	ND	94.74	85.54	NA	NA	NA		
	11/13/2018	9.10	ND	94.74	85.64	NA	NA	NA		
	5/31/2019	9.01	ND	94.74	85.73	NA	NA	NA		

Table 1 - Well Gauging Summary
Gasoline Fueling Station – Royal Farms No. 96
500 Mechanic Valley Road, North East, Maryland 21901

Well ID	Date	Depth to Water	Depth to LPH	TOC Elevation	Water Elevation	LPH Elevation	Corrected Water Elevation	LPH Thickness	Comments	Vacuum Pressure
	6/25/2019	9.13	ND	94.74	85.61	NA	NA	NA		
	11/20/2019	11.54	ND	94.74	83.20	NA	NA	NA		
	5/12/2020	9.00	ND	94.74	85.74	NA	NA	NA		
MW-2	12/10/2012	12.46	ND	95.86	83.40	NA	NA	NA		NA
	12/11/2012	13.92	ND	95.86	81.94	NA	NA	NA		0.1
	12/20/2012	15.28	ND	95.86	80.58	NA	NA	NA		0.0
	12/24/2012	14.49	ND	95.86	81.37	NA	NA	NA		0.0
	1/4/2013	15.40	ND	95.86	80.46	NA	NA	NA		0.0
	1/8/2013	15.70	ND	95.86	80.16	NA	NA	NA		0.0
	1/15/2013	14.73	ND	95.86	81.13	NA	NA	NA		0.1
	1/25/2013	13.12	ND	95.86	82.74	NA	NA	NA		
	1/29/2013	12.95	ND	95.86	82.91	NA	NA	NA		
	2/7/2013	14.03	ND	95.86	81.83	NA	NA	NA		
	2/14/2013	14.16	ND	95.86	81.70	NA	NA	NA		
	2/21/2013	13.27	ND	95.86	82.59	NA	NA	NA		
	2/27/2013	14.62	ND	95.86	81.24	NA	NA	NA		
	3/7/2013	14.89	ND	95.86	80.97	NA	NA	NA		
	4/18/2013	14.57	ND	95.86	81.29	NA	NA	NA		
	5/30/2013	13.65	ND	95.86	82.21	NA	NA	NA		
	5/31/2013	13.92	ND	95.86	81.94	NA	NA	NA		
	6/14/2013	11.90	ND	95.86	83.96	NA	NA	NA		
	7/23/2013	11.26	ND	95.86	84.60	NA	NA	NA		
	8/2/2013	11.05	ND	95.86	84.81	NA	NA	NA		
	8/13/2013	11.53	ND	95.86	84.33	NA	NA	NA		
	9/3/2013	10.79	ND	95.86	85.07	NA	NA	NA	System off: water level study	
	9/10/2013	11.00	ND	95.86	84.86	NA	NA	NA	System off: water level study	
	9/16/2013	12.58	ND	95.86	83.28	NA	NA	NA		
	10/24/2013	12.59	ND	95.86	83.27	NA	NA	NA		
	11/6/2013	13.31	ND	95.86	82.55	NA	NA	NA		
	11/7/2013	12.54	ND	95.86	83.32	NA	NA	NA	System off for sampling	
	12/4/2013	13.63	ND	95.86	82.23	NA	NA	NA		
	1/13/2014	13.40	ND	95.86	82.46	NA	NA	NA		
	2/10/2014	12.40	ND	95.86	83.46	NA	NA	NA		
	2/11/2014	11.97	ND	95.86	83.89	NA	NA	NA		
	3/13/2014	11.94	ND	95.86	83.92	NA	NA	NA		
	4/9/2014	11.67	ND	95.86	84.19	NA	NA	NA		
	5/22/2014	10.68	ND	95.86	85.18	NA	NA	NA		
	6/4/2014	12.47	ND	95.86	83.39	NA	NA	NA		
	7/1/2014	12.70	ND	95.86	83.16	NA	NA	NA		
	8/14/2014	13.40	ND	95.86	82.46	NA	NA	NA		
	8/15/2014	12.40	ND	95.86	83.46	NA	NA	NA		
	9/10/2014	13.30	ND	95.86	82.56	NA	NA	NA		
	10/8/2014	13.28	ND	95.86	82.58	NA	NA	NA		
	11/5/2014	12.97	ND	95.86	82.89	NA	NA	NA		
	11/6/2014	12.67	ND	95.86	83.19	NA	NA	NA	System off for sampling	
	12/4/2014	13.63	ND	95.86	82.23	NA	NA	NA		
	1/7/2015	13.26	ND	95.86	82.60	NA	NA	NA		
	2/25/2015	12.00	ND	95.86	83.86	NA	NA	NA		
	5/13/2015	11.35	ND	95.86	84.51	NA	NA	NA		
	5/28/2015	11.50	ND	95.86	84.36	NA	NA	NA		
	8/26/2015	11.60	ND	95.86	84.26	NA	NA	NA		
	9/8/2015	11.62	ND	95.86	84.24	NA	NA	NA		
	11/6/2015	12.11	ND	95.86	83.75	NA	NA	NA		
	2/17/2016	10.68	ND	95.86	85.18	NA	NA	NA		
	5/19/2016	10.75	ND	95.86	85.11	NA	NA	NA		
	8/15/2016	11.56	ND	95.86	84.30	NA	NA	NA		
	11/30/2016	12.86	ND	95.86	83.00	NA	NA	NA		
	2/16/2017	12.03	ND	95.86	83.83	NA	NA	NA		
	5/24/2017	10.78	ND	95.86	85.08	NA	NA	NA		
	8/23/2017	10.68	ND	95.86	85.18	NA	NA	NA		
	11/9/2017	11.74	ND	95.86	84.12	NA	NA	NA		

Table 1 - Well Gauging Summary
Gasoline Fueling Station – Royal Farms No. 96
500 Mechanic Valley Road, North East, Maryland 21901

Well ID	Date	Depth to Water	Depth to LPH	TOC Elevation	Water Elevation	LPH Elevation	Corrected Water Elevation	LPH Thickness	Comments	Vacuum Pressure
	5/18/2018	10.29	ND	95.86	85.57	NA	NA	NA		
	11/13/2018	10.30	ND	95.86	85.56	NA	NA	NA		
	5/31/2019	10.35	ND	95.86	85.51	NA	NA	NA		
	6/25/2019	10.48	ND	95.86	85.38	NA	NA	NA		
	11/20/2019	12.99	ND	95.86	82.87	NA	NA	NA		
	5/12/2020	10.41	ND	95.86	85.45	NA	NA	NA		
MW-4	12/10/2012	12.95	ND	96.87	83.92	NA	NA	NA		NA
	12/11/2012	14.46	ND	96.87	82.41	NA	NA	NA		1.0
	12/20/2012	17.45	ND	96.87	79.42	NA	NA	NA		2.9
	12/24/2012	14.72	ND	96.87	82.15	NA	NA	NA		1.5
	1/4/2013	16.19	ND	96.87	80.68	NA	NA	NA		2.9
	1/8/2013	16.32	ND	96.87	80.55	NA	NA	NA		2.5
	1/15/2013	15.50	ND	96.87	81.37	NA	NA	NA		> 5.0
	1/25/2013	13.77	ND	96.87	83.10	NA	NA	NA		
	1/29/2013	13.58	ND	96.87	83.29	NA	NA	NA		
	2/7/2013	14.71	ND	96.87	82.16	NA	NA	NA		1.6
	2/14/2013	14.89	ND	96.87	81.98	NA	NA	NA		4.5
	2/21/2013	14.12	ND	96.87	82.75	NA	NA	NA		
	2/27/2013	15.29	ND	96.87	81.58	NA	NA	NA		4.4
	3/7/2013	15.75	ND	96.87	81.12	NA	NA	NA		5.5
	4/18/2013	15.31	ND	96.87	81.56	NA	NA	NA		4.2
	5/29/2013	14.51	ND	96.87	82.36	NA	NA	NA		
	5/31/2013	14.57	ND	96.87	82.30	NA	NA	NA		2.6
	6/14/2013	13.07	ND	96.87	83.80	NA	NA	NA		0.8
	7/23/2013	11.97	ND	96.87	84.90	NA	NA	NA		
	8/2/2013	11.90	ND	96.87	84.97	NA	NA	NA		
	8/13/2013	12.40	ND	96.87	84.47	NA	NA	NA		
	9/3/2013	11.42	ND	96.87	85.45	NA	NA	NA	System off: water level study	
	9/10/2013	11.56	ND	96.87	85.31	NA	NA	NA	System off: water level study	
	9/16/2013	13.35	ND	96.87	83.52	NA	NA	NA		
	10/24/2013	13.19	ND	96.87	83.68	NA	NA	NA		
	11/6/2013	13.73	ND	96.87	83.14	NA	NA	NA		1.0
	11/7/2013	12.98	ND	96.87	83.89	NA	NA	NA	System off for sampling	
	12/4/2013	14.28	ND	96.87	82.59	NA	NA	NA		
	1/13/2014	14.06	ND	96.87	82.81	NA	NA	NA		1.8
	2/10/2014	13.08	ND	96.87	83.79	NA	NA	NA		0.6
	2/11/2014	12.75	ND	96.87	84.12	NA	NA	NA		
	3/13/2014	12.44	ND	96.87	84.43	NA	NA	NA		0.5
	4/9/2014	12.30	ND	96.87	84.57	NA	NA	NA		0.2
	5/22/2014	11.41	ND	96.87	85.46	NA	NA	NA		
	6/4/2014	13.07	ND	96.87	83.80	NA	NA	NA		0.1
	7/1/2014	13.20	ND	96.87	83.67	NA	NA	NA		1.8
	8/14/2014	14.95	ND	96.87	81.92	NA	NA	NA		0
	8/15/2014	13.09	ND	96.87	83.78	NA	NA	NA		
	9/10/2014	13.77	ND	96.87	83.10	NA	NA	NA		0.36
	10/8/2014	13.62	ND	96.87	83.25	NA	NA	NA		0.28
	11/5/2014	13.46	ND	96.87	83.41	NA	NA	NA		0.44
	11/6/2014	13.14	ND	96.87	83.73	NA	NA	NA	System off for sampling	
	12/4/2014	14.21	ND	96.87	82.66	NA	NA	NA		1.00
	1/7/2015	13.45	ND	96.87	83.42	NA	NA	NA		0.60
	2/25/2015	12.57	ND	96.87	84.30	NA	NA	NA		
	5/13/2015	12.06	ND	96.87	84.81	NA	NA	NA		0.0
	5/28/2015	11.82	ND	96.87	85.05	NA	NA	NA		
	8/26/2015	12.30	ND	96.87	84.57	NA	NA	NA		0.0
	9/8/2015	12.13	ND	96.87	84.74	NA	NA	NA		
	11/6/2015	12.51	ND	96.87	84.36	NA	NA	NA		
	2/17/2016	11.43	ND	96.87	85.44	NA	NA	NA		
	5/19/2016	11.87	ND	96.87	85.00	NA	NA	NA		
	8/15/2016	14.18	ND	96.87	82.69	NA	NA	NA		
	11/30/2016	13.04	ND	96.87	83.83	NA	NA	NA		
	2/16/2017	12.57	ND	96.87	84.30	NA	NA	NA		

Table 1 - Well Gauging Summary
Gasoline Fueling Station – Royal Farms No. 96
500 Mechanic Valley Road, North East, Maryland 21901

Well ID	Date	Depth to Water	Depth to LPH	TOC Elevation	Water Elevation	LPH Elevation	Corrected Water Elevation	LPH Thickness	Comments	Vacuum Pressure
	5/24/2017	11.44	ND	96.87	85.43	NA	NA	NA		
	8/23/2017	11.40	ND	96.87	85.47	NA	NA	NA		
	11/9/2017	12.26	ND	96.87	84.61	NA	NA	NA		
	5/18/2018	11.15	ND	96.87	85.72	NA	NA	NA		
	11/13/2018	11.13	ND	96.87	85.74	NA	NA	NA		
	5/31/2019	11.01	ND	96.87	85.86	NA	NA	NA		
	6/25/2019	11.10	ND	96.87	85.77	NA	NA	NA		
	11/20/2019	13.30	ND	96.87	83.57	NA	NA	NA		
	5/12/2020	11.14	ND	96.87	85.73	NA	NA	NA		
MW-6	12/10/2012	15.01	ND	98.91	83.90	NA	NA	NA		
	12/11/2012	16.24	ND	98.91	82.67	NA	NA	NA		5.0
	12/20/2012	17.93	ND	98.91	80.98	NA	NA	NA		6.0
	12/24/2012	16.55	ND	98.91	82.36	NA	NA	NA		3.9
	1/4/2013	17.96	ND	98.91	80.95	NA	NA	NA		7.0
	1/8/2013	18.35	ND	98.91	80.56	NA	NA	NA		6.5
	1/15/2013	17.02	ND	98.91	81.89	NA	NA	NA		13.0
	1/25/2013	15.86	ND	98.91	83.05	NA	NA	NA		
	1/29/2013	15.63	ND	98.91	83.28	NA	NA	NA		
	2/7/2013	16.70	ND	98.91	82.21	NA	NA	NA		4.8
	2/14/2013	16.29	ND	98.91	82.62	NA	NA	NA		> 5.0
	2/22/2013	16.21	ND	98.91	82.70	NA	NA	NA		
	2/27/2013	16.68	ND	98.91	82.23	NA	NA	NA		> 5.0
	3/7/2013	17.40	ND	98.91	81.51	NA	NA	NA		9.5
	4/18/2013	17.07	ND	98.91	81.84	NA	NA	NA		6.5
	5/30/2013	16.49	ND	98.91	82.42	NA	NA	NA		
	5/31/2013	16.47	ND	98.91	82.44	NA	NA	NA		3.5
	6/14/2013	14.78	ND	98.91	84.13	NA	NA	NA		3.0
	7/23/2013	13.97	ND	98.91	84.94	NA	NA	NA		
	8/2/2013	13.85	ND	98.91	85.06	NA	NA	NA		
	8/13/2013	14.97	ND	98.91	83.94	NA	NA	NA		
	9/3/2013	13.48	ND	98.91	85.43	NA	NA	NA	System off: water level study	
	9/10/2013	13.63	ND	98.91	85.28	NA	NA	NA	System off: water level study	
	9/16/2013	15.94	ND	98.91	82.97	NA	NA	NA		
	10/24/2013	16.36	ND	98.91	82.55	NA	NA	NA		
	11/6/2013	15.94	ND	98.91	82.97	NA	NA	NA		0.6
	11/7/2013	15.22	ND	98.91	83.69	NA	NA	NA	System off for sampling	
	12/4/2013	16.63	ND	98.91	82.28	NA	NA	NA		
	1/13/2014	15.85	ND	98.91	83.06	NA	NA	NA		6.8
	2/10/2014	15.62	ND	98.91	83.29	NA	NA	NA		1.6
	2/11/2014	15.00	ND	98.91	83.91	NA	NA	NA		
	3/13/2014	14.18	ND	98.91	84.73	NA	NA	NA		2.2
	4/9/2014	14.84	ND	98.91	84.07	NA	NA	NA		0.7
	5/22/2014	13.58	ND	98.91	85.33	NA	NA	NA		
	6/4/2014	15.70	ND	98.91	83.21	NA	NA	NA		1.8
	7/1/2014	15.85	ND	98.91	83.06	NA	NA	NA		1.8
	8/14/2014	16.27	ND	98.91	82.64	NA	NA	NA		4.6
	8/15/2014	15.48	ND	98.91	83.43	NA	NA	NA		
	9/10/2014	16.12	ND	98.91	82.79	NA	NA	NA		1.6
	10/8/2014	15.50	ND	98.91	83.41	NA	NA	NA		7.3
	11/5/2014	15.85	ND	98.91	83.06	NA	NA	NA		3
	11/7/2014	15.31	ND	98.91	83.60	NA	NA	NA	System off for sampling	
	12/4/2014	15.60	ND	98.91	83.31	NA	NA	NA		>5.0
	1/7/2015	15.43	ND	98.91	83.48	NA	NA	NA		4.0
	2/25/2015	14.78	ND	98.91	84.13	NA	NA	NA		
	5/13/2015	14.05	ND	98.91	84.86	NA	NA	NA		1.2
	5/28/2015	13.92	ND	98.91	84.99	NA	NA	NA		
	8/26/2015	14.44	ND	98.91	84.47	NA	NA	NA		1.2
	9/8/2015	14.23	ND	98.91	84.68	NA	NA	NA		
	11/6/2015	14.61	ND	98.91	84.30	NA	NA	NA		
	2/17/2016	13.49	ND	98.91	85.42	NA	NA	NA		
	5/19/2016	13.42	ND	98.91	85.49	NA	NA	NA		

Table 1 - Well Gauging Summary
Gasoline Fueling Station – Royal Farms No. 96
500 Mechanic Valley Road, North East, Maryland 21901

Well ID	Date	Depth to Water	Depth to LPH	TOC Elevation	Water Elevation	LPH Elevation	Corrected Water Elevation	LPH Thickness	Comments	Vacuum Pressure
	8/15/2016	14.18	ND	98.91	84.73	NA	NA	NA		
	11/30/2016	15.14	ND	98.91	83.77	NA	NA	NA		
	2/16/2017	14.65	ND	98.91	84.26	NA	NA	NA		
	5/25/2017	11.60	ND	98.91	87.31	NA	NA	NA		
	8/23/2017	13.46	ND	98.91	85.45	NA	NA	NA		
	11/9/2017	14.41	ND	98.91	84.50	NA	NA	NA		
	5/18/2018	12.38	ND	98.91	86.53	NA	NA	NA		
	11/13/2018	11.69	ND	98.91	87.22	NA	NA	NA		
	5/31/2019	13.09	ND	98.91	85.82	NA	NA	NA		
	6/25/2019	13.16	ND	98.81	85.65	NA	NA	NA		
	11/20/2019	15.40	ND	98.81	83.41	NA	NA	NA		
	5/12/2020	13.20	ND	98.81	85.61	NA	NA	NA		
MW-8	12/10/2012	14.29	ND	97.81	83.52	NA	NA	NA		NA
	12/11/2012	16.81	ND	97.81	81.00	NA	NA	NA		2.0
	12/20/2012	17.53	ND	97.81	80.28	NA	NA	NA		2.7
	12/24/2012	17.00	ND	97.81	80.81	NA	NA	NA		4.8
	1/4/2013	18.00	ND	97.81	79.81	NA	NA	NA		0.2
	1/8/2013	18.37	ND	97.81	79.44	NA	NA	NA		2.7
	1/15/2013	16.98	ND	97.81	80.83	NA	NA	NA		2.6
	1/25/2013	14.96	ND	97.81	82.85	NA	NA	NA		
	1/29/2013	14.80	ND	97.81	83.01	NA	NA	NA		
	2/7/2013	16.30	ND	97.81	81.51	NA	NA	NA		2.1
	2/14/2013	16.87	ND	97.81	80.94	NA	NA	NA		0.9
	2/22/2013	14.97	ND	97.81	82.84	NA	NA	NA		
	2/27/2013	17.15	ND	97.81	80.66	NA	NA	NA		2.4
	3/7/2013	17.38	ND	97.81	80.43	NA	NA	NA		1.8
	4/18/2013	17.04	ND	97.81	80.77	NA	NA	NA		1.7
	5/30/2013	15.51	ND	97.81	82.30	NA	NA	NA		
	5/31/2013	16.27	ND	97.81	81.54	NA	NA	NA		2.0
	6/14/2013	13.03	ND	97.81	84.78	NA	NA	NA		1.5
	7/23/2013	12.97	ND	97.81	84.84	NA	NA	NA		
	8/2/2013	12.80	ND	97.81	85.01	NA	NA	NA		
	8/13/2013	13.35	ND	97.81	84.46	NA	NA	NA		
	9/3/2013	12.61	ND	97.81	85.20	NA	NA	NA	System off: water level study	
	9/10/2013	12.83	ND	97.81	84.98	NA	NA	NA	System off: water level study	
	9/16/2013	14.62	ND	97.81	83.19	NA	NA	NA		
	10/24/2013	14.58	ND	97.81	83.23	NA	NA	NA		
	11/6/2013	15.71	ND	97.81	82.10	NA	NA	NA		2.2
	11/7/2013	14.40	ND	97.81	83.41	NA	NA	NA	System off for sampling	
	12/4/2013	15.83	ND	97.81	81.98	NA	NA	NA		
	1/13/2014	15.71	ND	97.81	82.10	NA	NA	NA		0.0
	2/10/2014	14.30	ND	97.81	83.51	NA	NA	NA		1.8
	2/11/2014	13.88	ND	97.81	83.93	NA	NA	NA		
	3/13/2014	14.62	ND	97.81	83.19	NA	NA	NA		0.6
	4/9/2014	14.66	ND	97.81	83.15	NA	NA	NA		0.2
	5/22/2014	12.53	ND	97.81	85.28	NA	NA	NA		
	6/4/2014	15.19	ND	97.81	82.62	NA	NA	NA		1.5
	7/1/2014	15.33	ND	97.81	82.48	NA	NA	NA		0.4
	8/14/2014	15.94	ND	97.81	81.87	NA	NA	NA		2.0
	8/15/2014	14.33	ND	97.81	83.48	NA	NA	NA		
	9/10/2014	15.70	ND	97.81	82.11	NA	NA	NA		0.28
	10/8/2014	15.75	ND	97.81	82.06	NA	NA	NA		2.1
	11/5/2014	14.80	ND	97.81	83.01	NA	NA	NA		1.5
	11/7/2014	14.55	ND	97.81	83.26	NA	NA	NA	System off for sampling	
	12/4/2014	15.88	ND	97.81	81.93	NA	NA	NA		2.5
	1/7/2015	15.49	ND	97.81	82.32	NA	NA	NA		2.0
	2/25/2015	13.90	ND	97.81	83.91	NA	NA	NA		
	5/13/2015	13.18	ND	97.81	84.63	NA	NA	NA		1.4
	5/28/2015	13.18	ND	97.81	84.63	NA	NA	NA		
	8/26/2015	13.65	ND	97.81	84.16	NA	NA	NA		1.0
	9/8/2015	13.35	ND	97.81	84.46	NA	NA	NA		

Table 1 - Well Gauging Summary
Gasoline Fueling Station – Royal Farms No. 96
500 Mechanic Valley Road, North East, Maryland 21901

Well ID	Date	Depth to Water	Depth to LPH	TOC Elevation	Water Elevation	LPH Elevation	Corrected Water Elevation	LPH Thickness	Comments	Vacuum Pressure
	10/6/2015	13.16	ND	97.81	84.65	NA	NA	NA		
	11/6/2015	12.90	ND	97.81	84.91	NA	NA	NA		
	12/9/2015	13.90	ND	97.81	83.91	NA	NA	NA		
	1/11/2016	13.37	ND	97.81	84.44	NA	NA	NA		
	2/17/2016	12.57	ND	97.81	85.24	NA	NA	NA		
	5/19/2016	12.61	ND	97.81	85.20	NA	NA	NA		
	8/15/2016	13.41	ND	97.81	84.40	NA	NA	NA		
	11/30/2016	14.47	ND	97.81	83.34	NA	NA	NA		
	2/16/2017	13.91	ND	97.81	83.90	NA	NA	NA		
	5/25/2017	12.39	ND	97.81	85.42	NA	NA	NA		
	8/23/2017	12.60	ND	97.81	85.21	NA	NA	NA		
	11/9/2017	13.67	ND	97.81	84.14	NA	NA	NA		
	5/18/2018	10.70	ND	97.81	87.11	NA	NA	NA		
	11/13/2018	11.97	ND	97.81	85.84	NA	NA	NA		
	5/31/2019	12.26	ND	97.81	85.55	NA	NA	NA		
	6/25/2019	12.36	ND	97.81	85.45	NA	NA	NA		
	11/20/2019	14.78	ND	97.81	83.03	NA	NA	NA		
	5/12/2020	11.96	ND	97.81	85.85	NA	NA	NA		
MW-9	12/10/2012	13.29	ND	96.73	83.44	NA	NA	NA	Mod. Odor	NA
	12/11/2012	14.87	ND	96.73	81.86	NA	NA	NA	Mod. Odor	0.0
	12/20/2012	16.28	ND	96.73	80.45	NA	NA	NA	Mod. Odor	0.0
	12/24/2012	15.42	ND	96.73	81.31	NA	NA	NA	Mod. Odor	0.0
	1/4/2013	16.42	ND	96.73	80.31	NA	NA	NA	Slight Odor	0.0
	1/8/2013	16.71	ND	96.73	80.02	NA	NA	NA	Mod. Odor	0.0
	1/15/2013	15.64	ND	96.73	81.09	NA	NA	NA		0.0
	1/25/2013	13.95	ND	96.73	82.78	NA	NA	NA	Mod. Odor	
	1/29/2013	13.79	ND	96.73	82.94	NA	NA	NA	Slight Odor	
	2/7/2013	14.95	ND	96.73	81.78	NA	NA	NA	Slight Odor	
	2/14/2013	15.12	ND	96.73	81.61	NA	NA	NA	Slight Odor	
	2/22/2013	13.98	ND	96.73	82.75	NA	NA	NA	Mod. Odor	
	2/27/2013	15.62	ND	96.73	81.11	NA	NA	NA	Mod. Odor	
	3/7/2013	15.91	ND	96.73	80.82	NA	NA	NA	Slight Odor	
	4/18/2013	15.53	ND	96.73	81.20	NA	NA	NA	Mod. Odor	
	5/30/2013	14.51	ND	96.73	82.22	NA	NA	NA	Slight Odor	
	5/31/2013	14.81	ND	96.73	81.92	NA	NA	NA	Slight Odor	
	6/14/2013	13.03	ND	96.73	83.70	NA	NA	NA	Slight Odor	
	7/23/2013	12.10	ND	96.73	84.63	NA	NA	NA		
	8/2/2013	12.87	ND	96.73	83.86	NA	NA	NA		
	8/13/2013	12.23	ND	96.73	84.50	NA	NA	NA	Slight Odor	
	9/3/2013	11.62	ND	96.73	85.11	NA	NA	NA	System off: water level study	
	9/10/2013	11.83	ND	96.73	84.90	NA	NA	NA	System off: water level study	
	9/16/2013	13.51	ND	96.73	83.22	NA	NA	NA	Slight Odor	
	10/24/2013	13.44	ND	96.73	83.29	NA	NA	NA	Slight Odor	
	11/6/2013	14.21	ND	96.73	82.52	NA	NA	NA	Mod. Odor	
	11/7/2013	13.40	ND	96.73	83.33	NA	NA	NA	System off for sampling	
	12/4/2013	14.50	ND	96.73	82.23	NA	NA	NA	Slight Odor	
	1/13/2014	14.15	ND	96.73	82.58	NA	NA	NA		
	2/10/2014	12.38	ND	96.73	84.35	NA	NA	NA	Slight Odor	
	2/11/2014	12.83	ND	96.73	83.90	NA	NA	NA		
	3/13/2014	12.85	ND	96.73	83.88	NA	NA	NA		
	4/9/2014	12.54	ND	96.73	84.19	NA	NA	NA	Slight Odor	
	5/22/2014	11.43	ND	96.73	85.30	NA	NA	NA	Slight Odor	
	6/4/2014	13.40	ND	96.73	83.33	NA	NA	NA		
	7/1/2014	13.62	ND	96.73	83.11	NA	NA	NA		
	8/14/2014	14.33	ND	96.73	82.40	NA	NA	NA		
	8/15/2014	13.21	ND	96.73	83.52	NA	NA	NA		
	9/10/2014	14.10	ND	96.73	82.63	NA	NA	NA		
	10/8/2014	14.11	ND	96.73	82.62	NA	NA	NA		
	11/5/2014	13.80	ND	96.73	82.93	NA	NA	NA		
	11/7/2014	13.48	ND	96.73	83.25	NA	NA	NA	System off for sampling	
	12/4/2014	14.48	ND	96.73	82.25	NA	NA	NA		
	1/7/2015	14.12	ND	96.73	82.61	NA	NA	NA		
	2/25/2015	12.88	ND	96.73	83.85	NA	NA	NA	Slight Odor	

Table 1 - Well Gauging Summary
Gasoline Fueling Station – Royal Farms No. 96
500 Mechanic Valley Road, North East, Maryland 21901

Well ID	Date	Depth to Water	Depth to LPH	TOC Elevation	Water Elevation	LPH Elevation	Corrected Water Elevation	LPH Thickness	Comments	Vacuum Pressure
	5/13/2015	12.16	ND	96.73	84.57	NA	NA	NA		
	5/28/2015	12.06	ND	96.73	84.67	NA	NA	NA		
	8/26/2015	12.45	ND	96.73	84.28	NA	NA	NA		
	9/8/2015	12.46	ND	96.73	84.27	NA	NA	NA		
	11/6/2015	13.00	ND	96.73	83.73	NA	NA	NA		
	2/17/2016	11.60	ND	96.73	85.13	NA	NA	NA		
	5/19/2016	11.50	ND	96.73	85.23	NA	NA	NA		
	8/15/2016	12.03	ND	96.73	84.70	NA	NA	NA		
	11/30/2016	13.45	ND	96.73	83.28	NA	NA	NA		
	2/16/2017	12.80	ND	96.73	83.93	NA	NA	NA		
	5/25/2017	9.39	ND	96.73	87.34	NA	NA	NA		
	8/23/2017	11.45	ND	96.73	85.28	NA	NA	NA		
	11/9/2017	12.58	ND	96.73	84.15	NA	NA	NA		
	5/18/2018	10.06	ND	96.73	86.67	NA	NA	NA		
	11/13/2018	9.13	ND	96.73	87.60	NA	NA	NA		
	5/31/2019	11.69	ND	96.73	85.04	NA	NA	NA		
	6/25/2019	11.23	ND	96.73	85.50	NA	NA	NA		
	11/20/2019	13.76	ND	96.73	82.97	NA	NA	NA		
	5/12/2020	11.15	ND	96.73	85.58	NA	NA	NA		
TP-1	12/10/2012	11.04	ND	NM	NA	NA	NA	NA		NA
	12/20/2012	14.32	ND	NM	NA	NA	NA	NA		0.06
	12/24/2012	13.60	ND	NM	NA	NA	NA	NA		0.06
	1/4/2013	14.75	ND	NM	NA	NA	NA	NA		0.04
	1/8/2013	14.98	ND	NM	NA	NA	NA	NA		0.05
	1/15/2013	14.10	ND	NM	NA	NA	NA	NA		0.08
	1/25/2013	12.49	ND	NM	NA	NA	NA	NA		
	1/29/2013	12.04	ND	NM	NA	NA	NA	NA		
	2/7/2013	12.73	ND	NM	NA	NA	NA	NA		
	2/14/2013	12.54	ND	NM	NA	NA	NA	NA		
	2/22/2013	12.94	ND	NM	NA	NA	NA	NA		
	2/27/2013	12.62	ND	NM	NA	NA	NA	NA		
	3/7/2013	12.98	ND	NM	NA	NA	NA	NA		
	4/18/2013	13.85	ND	NM	NA	NA	NA	NA		
	5/29/2013	13.92	ND	NM	NA	NA	NA	NA		
	5/31/2013	13.42	ND	NM	NA	NA	NA	NA		
	6/14/2013	11.02	ND	NM	NA	NA	NA	NA		
	7/23/2013	10.54	ND	NM	NA	NA	NA	NA		
	8/2/2013	9.80	ND	NM	NA	NA	NA	NA		
	8/13/2013	11.20	ND	NM	NA	NA	NA	NA		
	9/3/2013	9.35	ND	NM	NA	NA	NA	NA	System off: water level study	
	9/10/2013	9.64	ND	NM	NA	NA	NA	NA	System off: water level study	
	9/16/2013	11.80	ND	NM	NA	NA	NA	NA		
	10/24/2013	11.50	ND	NM	NA	NA	NA	NA		
	11/6/2013	11.85	ND	NM	NA	NA	NA	NA		
	11/7/2013	11.70	ND	NM	NA	NA	NA	NA	System off for sampling	
	12/4/2013	12.54	ND	NM	NA	NA	NA	NA		
	1/13/2014	11.92	ND	NM	NA	NA	NA	NA		
	2/10/2014	11.27	ND	NM	NA	NA	NA	NA		
	2/11/2014	11.22	ND	NM	NA	NA	NA	NA		
	3/13/2014	10.12	ND	NM	NA	NA	NA	NA		
	4/9/2014	10.19	ND	NM	NA	NA	NA	NA		
	5/22/2014	10.20	ND	NM	NA	NA	NA	NA		
	6/4/2014	10.31	ND	NM	NA	NA	NA	NA		
	7/1/2014	11.41	ND	NM	NA	NA	NA	NA		
	8/14/2014	11.27	ND	NM	NA	NA	NA	NA		
	8/15/2014	11.32	ND	NM	NA	NA	NA	NA		
	9/10/2014	12.01	ND	NM	NA	NA	NA	NA		
	10/8/2014	11.56	ND	NM	NA	NA	NA	NA		
	11/5/2014	11.56	ND	NM	NA	NA	NA	NA		
	11/7/2014	12.05	ND	NM	NA	NA	NA	NA		
	12/4/2014	12.10	ND	NM	NA	NA	NA	NA		

Table 1 - Well Gauging Summary
Gasoline Fueling Station – Royal Farms No. 96
500 Mechanic Valley Road, North East, Maryland 21901

Well ID	Date	Depth to Water	Depth to LPH	TOC Elevation	Water Elevation	LPH Elevation	Corrected Water Elevation	LPH Thickness	Comments	Vacuum Pressure
	1/7/2015	11.85	ND	NM	NA	NA	NA	NA		0
	2/25/2015	10.85	ND	NM	NA	NA	NA	NA		
	5/13/2015	10.44	ND	NM	NA	NA	NA	NA		
	11/6/2015	10.64	ND	NM	NA	NA	NA	NA		
	2/17/2016	9.02	ND	NM	NA	NA	NA	NA		
	5/19/2016	9.21	ND	NM	NA	NA	NA	NA		
	8/15/2016	10.06	ND	NM	NA	NA	NA	NA		
	11/30/2016	10.96	ND	NM	NA	NA	NA	NA		
	2/16/2017	10.39	ND	NM	NA	NA	NA	NA		
	8/23/2017	NG	NG	NM	NA	NA	NA	NA	Locked	
	11/9/2017	10.60	ND	NM	NA	NA	NA	NA		
	5/18/2018	8.53	ND	NM	NA	NA	NA	NA		
	11/13/2018	9.21	ND	NM	NA	NA	NA	NA		
	6/25/2019	8.92	ND	NM	NA	NA	NA	NA		
	11/20/2019	11.35	ND	NM	NA	NA	NA	NA		
	5/12/2020	8.65	ND	NM	NA	NA	NA	NA		
TP-2	12/10/2012	11.37	ND	NM	NA	NA	NA	NA		NA
	12/20/2012	15.24	ND	NM	NA	NA	NA	NA		0.06
	12/24/2012	14.51	ND	NM	NA	NA	NA	NA		0.05
	1/4/2013	15.68	ND	NM	NA	NA	NA	NA		0.07
	1/8/2013	15.89	ND	NM	NA	NA	NA	NA		0.06
	1/15/2013	15.03	ND	NM	NA	NA	NA	NA		0.10
	1/25/2013	13.41	ND	NM	NA	NA	NA	NA		
	1/29/2013	12.97	ND	NM	NA	NA	NA	NA		
	2/7/2013	13.63	ND	NM	NA	NA	NA	NA		0.06
	2/14/2013	13.46	ND	NM	NA	NA	NA	NA		0.04
	2/22/2013	13.84	ND	NM	NA	NA	NA	NA		
	2/27/2013	13.53	ND	NM	NA	NA	NA	NA		0.08
	3/7/2013	13.72	ND	NM	NA	NA	NA	NA		0.04
	4/18/2013	14.75	ND	NM	NA	NA	NA	NA		0.02
	5/29/2013	14.81	ND	NM	NA	NA	NA	NA		
	5/31/2013	14.34	ND	NM	NA	NA	NA	NA		0.03
	6/14/2013	11.97	ND	NM	NA	NA	NA	NA		
	7/23/2013	11.47	ND	NM	NA	NA	NA	NA		
	8/2/2013	10.73	ND	NM	NA	NA	NA	NA		
	8/13/2013	12.13	ND	NM	NA	NA	NA	NA		
	9/3/2013	10.30	ND	NM	NA	NA	NA	NA	System off: water level study	
	9/10/2013	10.58	ND	NM	NA	NA	NA	NA	System off: water level study	
	9/16/2013	12.73	ND	NM	NA	NA	NA	NA		
	10/24/2013	12.43	ND	NM	NA	NA	NA	NA		
	11/6/2013	12.78	ND	NM	NA	NA	NA	NA		0.0
	11/7/2013	12.62	ND	NM	NA	NA	NA	NA	System off for sampling	
	12/4/2013	13.44	ND	NM	NA	NA	NA	NA		
	1/13/2014	12.84	ND	NM	NA	NA	NA	NA		0.0
	2/10/2014	12.18	ND	NM	NA	NA	NA	NA		
	2/11/2014	12.14	ND	NM	NA	NA	NA	NA		
	3/13/2014	11.07	ND	NM	NA	NA	NA	NA		0.0
	4/9/2014	11.11	ND	NM	NA	NA	NA	NA		
	5/22/2014	11.84	ND	NM	NA	NA	NA	NA		
	6/4/2014	12.24	ND	NM	NA	NA	NA	NA		
	7/1/2014	12.32	ND	NM	NA	NA	NA	NA		0.0
	8/14/2014	12.20	ND	NM	NA	NA	NA	NA		0.0
	8/15/2014	12.25	ND	NM	NA	NA	NA	NA		
	9/10/2014	12.94	ND	NM	NA	NA	NA	NA		
	10/8/2014	12.49	ND	NM	NA	NA	NA	NA		0.02
	11/5/2014	12.49	ND	NM	NA	NA	NA	NA		
	11/7/2014	12.05	ND	NM	NA	NA	NA	NA		
	12/4/2014	12.90	ND	NM	NA	NA	NA	NA		
	1/7/2015	12.76	ND	NM	NA	NA	NA	NA		0
	2/25/2015	11.78	ND	NM	NA	NA	NA	NA		
	5/13/2015	11.36	ND	NM	NA	NA	NA	NA		

Table 1 - Well Gauging Summary
Gasoline Fueling Station – Royal Farms No. 96
500 Mechanic Valley Road, North East, Maryland 21901

Well ID	Date	Depth to Water	Depth to LPH	TOC Elevation	Water Elevation	LPH Elevation	Corrected Water Elevation	LPH Thickness	Comments	Vacuum Pressure
	11/6/2015	11.60	ND	NM	NA	NA	NA	NA		
	2/17/2016	9.94	ND	NM	NA	NA	NA	NA		
	5/19/2016	10.13	ND	NM	NA	NA	NA	NA		
	8/15/2016	11.22	ND	NM	NA	NA	NA	NA		
	11/30/2016	11.87	ND	NM	NA	NA	NA	NA		
	2/16/2017	11.51	ND	NM	NA	NA	NA	NA		
	8/23/2017	NG	NG	NM	NA	NA	NA	NA	Locked	
	11/9/2017	NG	NG	NM	NA	NA	NA	NA	Locked	
	5/18/2018	NG	NG	NM	NA	NA	NA	NA	Locked	
	11/13/2018	NG	NG	NM	NA	NA	NA	NA	Locked	
	6/25/2019	9.80	ND	NM	NA	NA	NA	NA		
	11/20/2019	12.27	ND	NM	NA	NA	NA	NA		
	5/12/2020	9.80	ND	NM	NA	NA	NA	NA		
TP-3	12/10/2012	12.72	ND	NM	NA	NA	NA	NA		NA
	12/20/2012	15.96	ND	NM	NA	NA	NA	NA		0.05
	12/24/2012	15.23	ND	NM	NA	NA	NA	NA		0.04
	1/4/2013	16.40	ND	NM	NA	NA	NA	NA		0.08
	1/8/2013	16.60	ND	NM	NA	NA	NA	NA		0.08
	1/15/2013	15.73	ND	NM	NA	NA	NA	NA		0.10
	1/25/2013	14.13	ND	NM	NA	NA	NA	NA		
	1/29/2013	13.67	ND	NM	NA	NA	NA	NA		
	2/7/2013	14.37	ND	NM	NA	NA	NA	NA		0.05
	2/14/2013	14.17	ND	NM	NA	NA	NA	NA		0.05
	2/22/2013	14.57	ND	NM	NA	NA	NA	NA		
	2/27/2013	14.27	ND	NM	NA	NA	NA	NA		0.17
	3/7/2013	14.49	ND	NM	NA	NA	NA	NA		0.05
	4/18/2013	15.49	ND	NM	NA	NA	NA	NA		0.02
	5/29/2013	15.56	ND	NM	NA	NA	NA	NA		
	5/31/2013	15.06	ND	NM	NA	NA	NA	NA		0.04
	6/14/2013	12.67	ND	NM	NA	NA	NA	NA		
	7/23/2013	12.19	ND	NM	NA	NA	NA	NA		
	8/2/2013	11.43	ND	NM	NA	NA	NA	NA		
	8/13/2013	12.89	ND	NM	NA	NA	NA	NA		
	9/3/2013	11.02	ND	NM	NA	NA	NA	NA	System off: water level study	
	9/10/2013	11.29	ND	NM	NA	NA	NA	NA	System off: water level study	
	9/16/2013	13.44	ND	NM	NA	NA	NA	NA		
	10/24/2013	13.18	ND	NM	NA	NA	NA	NA		
	11/6/2013	14.51	ND	NM	NA	NA	NA	NA		0.0
	11/7/2013	13.37	ND	NM	NA	NA	NA	NA	System off for sampling	
	12/4/2013	14.17	ND	NM	NA	NA	NA	NA		
	1/13/2014	13.55	ND	NM	NA	NA	NA	NA		0.0
	2/10/2014	12.92	ND	NM	NA	NA	NA	NA		
	2/11/2014	12.88	ND	NM	NA	NA	NA	NA		
	3/13/2014	11.99	ND	NM	NA	NA	NA	NA		0.0
	4/9/2014	11.86	ND	NM	NA	NA	NA	NA		
	5/22/2014	11.12	ND	NM	NA	NA	NA	NA		
	6/4/2014	12.11	ND	NM	NA	NA	NA	NA		0
	7/1/2014	13.05	ND	NM	NA	NA	NA	NA		0.0
	8/14/2014	12.94	ND	NM	NA	NA	NA	NA		0.0
	8/15/2014	12.98	ND	NM	NA	NA	NA	NA		
	9/10/2014	13.69	ND	NM	NA	NA	NA	NA		
	10/8/2014	NG	ND	NM	NA	NA	NA	NA		
	11/5/2014	13.21	ND	NM	NA	NA	NA	NA		
	11/7/2014	12.77	ND	NM	NA	NA	NA	NA		
	12/4/2014	13.77	ND	NM	NA	NA	NA	NA		
	1/7/2015	13.52	ND	NM	NA	NA	NA	NA		0
	2/25/2015	12.53	ND	NM	NA	NA	NA	NA		
	5/13/2015	12.10	ND	NM	NA	NA	NA	NA		
	11/6/2015	12.31	ND	NM	NA	NA	NA	NA		
	2/17/2016	10.66	ND	NM	NA	NA	NA	NA		
	5/19/2016	10.88	ND	NM	NA	NA	NA	NA		

Table 1 - Well Gauging Summary
Gasoline Fueling Station – Royal Farms No. 96
500 Mechanic Valley Road, North East, Maryland 21901

Well ID	Date	Depth to Water	Depth to LPH	TOC Elevation	Water Elevation	LPH Elevation	Corrected Water Elevation	LPH Thickness	Comments	Vacuum Pressure
	8/15/2016	11.73	ND	NM	NA	NA	NA	NA		
	11/30/2016	12.60	ND	NM	NA	NA	NA	NA		
	2/16/2017	12.26	ND	NM	NA	NA	NA	NA		
	8/23/2017	10.95	ND	NM	NA	NA	NA	NA		
	11/9/2017	10.91	ND	NM	NA	NA	NA	NA		
	5/18/2018	9.17	ND	NM	NA	NA	NA	NA		
	11/13/2018	9.24	ND	NM	NA	NA	NA	NA		
	6/25/2019	10.60	ND	NM	NA	NA	NA	NA		
	11/20/2019	13.97	ND	NM	NA	NA	NA	NA		
	5/12/2020	10.26	ND	NM	NA	NA	NA	NA		
TP-4	12/10/2012	12.82	ND	NM	NA	NA	NA	NA		NA
	12/20/2012	15.12	ND	NM	NA	NA	NA	NA		0.06
	12/24/2012	14.38	ND	NM	NA	NA	NA	NA		0.05
	1/4/2013	15.55	ND	NM	NA	NA	NA	NA		0.05
	1/8/2013	15.76	ND	NM	NA	NA	NA	NA		0.06
	1/15/2013	14.91	ND	NM	NA	NA	NA	NA		0.09
	1/25/2013	13.29	ND	NM	NA	NA	NA	NA		
	1/29/2013	12.85	ND	NM	NA	NA	NA	NA		
	2/7/2013	13.53	ND	NM	NA	NA	NA	NA		
	2/14/2013	13.35	ND	NM	NA	NA	NA	NA		
	2/22/2013	13.75	ND	NM	NA	NA	NA	NA		
	2/27/2013	13.42	ND	NM	NA	NA	NA	NA		
	3/7/2013	13.65	ND	NM	NA	NA	NA	NA		
	4/18/2013	14.65	ND	NM	NA	NA	NA	NA		
	5/29/2013	14.72	ND	NM	NA	NA	NA	NA		
	5/31/2013	14.22	ND	NM	NA	NA	NA	NA		
	6/14/2013	11.85	ND	NM	NA	NA	NA	NA		
	7/23/2013	11.34	ND	NM	NA	NA	NA	NA		
	8/2/2013	10.61	ND	NM	NA	NA	NA	NA		
	8/13/2013	12.00	ND	NM	NA	NA	NA	NA		
	9/3/2013	10.16	ND	NM	NA	NA	NA	NA	System off: water level study	
	9/10/2013	10.46	ND	NM	NA	NA	NA	NA	System off: water level study	
	9/16/2013	12.60	ND	NM	NA	NA	NA	NA		
	10/24/2013	12.30	ND	NM	NA	NA	NA	NA		
	11/6/2013	12.65	ND	NM	NA	NA	NA	NA		
	11/7/2013	12.56	ND	NM	NA	NA	NA	NA	System off for sampling	
	12/4/2013	13.33	ND	NM	NA	NA	NA	NA		
	1/13/2014	12.72	ND	NM	NA	NA	NA	NA		
	2/10/2014	12.02	ND	NM	NA	NA	NA	NA		
	2/11/2014	12.01	ND	NM	NA	NA	NA	NA		
	3/13/2014	11.00	ND	NM	NA	NA	NA	NA		
	4/9/2014	11.02	ND	NM	NA	NA	NA	NA		
	5/22/2014	11.02	ND	NM	NA	NA	NA	NA		
	6/4/2014	12.11	ND	NM	NA	NA	NA	NA		
	7/1/2014	12.22	ND	NM	NA	NA	NA	NA		
	8/14/2014	12.10	ND	NM	NA	NA	NA	NA		
	8/15/2014	12.12	ND	NM	NA	NA	NA	NA		
	9/10/2014	12.82	ND	NM	NA	NA	NA	NA		
	10/8/2014	12.34	ND	NM	NA	NA	NA	NA		
	11/5/2014	12.35	ND	NM	NA	NA	NA	NA		
	11/7/2014	11.93	ND	NM	NA	NA	NA	NA		
	12/4/2014	12.90	ND	NM	NA	NA	NA	NA		
	1/7/2015	12.66	ND	NM	NA	NA	NA	NA		0
	2/25/2015	11.71	ND	NM	NA	NA	NA	NA		
	5/13/2015	11.25	ND	NM	NA	NA	NA	NA		
	11/6/2015	11.45	ND	NM	NA	NA	NA	NA		
	2/17/2016	9.83	ND	NM	NA	NA	NA	NA		
	5/19/2016	10.01	ND	NM	NA	NA	NA	NA		
	8/15/2016	10.89	ND	NM	NA	NA	NA	NA		
	11/30/2016	11.77	ND	NM	NA	NA	NA	NA		
	2/16/2017	11.42	ND	NM	NA	NA	NA	NA		

Table 1 - Well Gauging Summary
Gasoline Fueling Station – Royal Farms No. 96
500 Mechanic Valley Road, North East, Maryland 21901

Well ID	Date	Depth to Water	Depth to LPH	TOC Elevation	Water Elevation	LPH Elevation	Corrected Water Elevation	LPH Thickness	Comments	Vacuum Pressure
	8/23/2017	10.11	ND	NM	NA	NA	NA	NA		
	11/9/2017	11.72	ND	NM	NA	NA	NA	NA		
	5/18/2018	10.22	ND	NM	NA	NA	NA	NA		
	11/13/2018	10.53	ND	NM	NA	NA	NA	NA		
	6/25/2019	9.75	ND	NM	NA	NA	NA	NA		
	11/20/2019	12.15	ND	NM	NA	NA	NA	NA		
	5/12/2020	9.42	ND	NM	NA	NA	NA	NA		

LPH = Liquid Phase Hydrocarbon
TOC = Top of Casing Elevation
NA = Not Applicable
ND = None Detected
NG = Not Gauged
NM = Not Measured
Vacuum pressure readings measured in inches of water
> symbol for vacuum readings indicates the reading exceeded the limits of the gauging equipment.
Corrected water elevation based on LPH density of 0.7 grams per milliliter

Table 2 - Groundwater Analytical Results
Gasoline Fueling Station – Royal Farms #96
500 Mechanics Valley Road, North East, MD 21901

Well No.	Date	B	T	E	X	Total BTEX	MTBE	Naph	IPB	TCE	PCE	1,2-DCA	Acetone	Carbon Disulfide	TPH GRO	TPH DRO
MW-1R	12/15/2011	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	3/15/2012	BQL	BQL	BQL	55	55	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	6/21/2012	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	9/6/2012	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	11/16/2012	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	2/21/2013	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	5/30/2013	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	8/13/2013	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	11/7/2013	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	2/11/2014	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	5/22/2014	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	8/15/2014	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	11/6/2014	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	2/25/2015	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	5/28/2015	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	9/8/2015	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	11/6/2015	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	2/17/2016	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	5/19/2016	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	8/15/2016	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	11/30/2016	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	2/16/2017	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	5/24/2017	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.21**
	8/23/2017	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	11/9/2017	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	5/18/2018	<2.0	<2.0	<2.0	<4.0	<10.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10.0	<2.0	NS	NS
	11/13/2018	<2.0	<2.0	<2.0	<4.0	<10.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10.0	<2.0	NS	NS
	5/31/2019	<2.0	<2.0	<2.0	<4.0	<10.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10.0	<2.0	NS	NS
	11/20/2019	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	NS	NS
	5/12/2020	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	NS	NS
MW-2	6/8/2011	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS	NS
	7/26/2011	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	8/4/2011	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	9/15/2011	**31**	7.2	BQL	27.8	66	BQL	**12**	BQL	BQL	BQL	BQL	BQL	BQL	**12**	BQL
	12/15/2011	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	3/15/2012	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	6/21/2012	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	9/6/2012	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	11/16/2012	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	2/21/2013	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	5/30/2013	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	8/13/2013	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.54**
	11/7/2013	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	2/11/2014	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	5/22/2014	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	8/15/2014	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	11/6/2014	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.20**
	2/25/2015	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.30**
	5/28/2015	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	9/8/2015	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	11/6/2015	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	2/17/2016	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	5/19/2016	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	8/15/2016	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	11/30/2016	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.30**
	2/16/2017	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	5/24/2017	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	8/23/2017	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	11/9/2017	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	5/18/2018	<2.0	<2.0	<2.0	<4.0	<10.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10.0	<2.0	NS	NS
	11/13/2018	<2.0	<2.0	<2.0	<4.0	<10.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10.0	<2.0	NS	NS
	5/31/2019	<2.0	<2.0	<2.0	<4.0	<10.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10.0	<2.0	NS	NS
	11/20/2019	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	NS	NS
	5/12/2020	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	NS	NS
MW-4	8/4/2011	BQL	BQL	BQL	21.6	21.6	BQL	**18**	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	9/15/2011	BQL	5.1	BQL	7.1	12.2	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	12/15/2011	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	3/15/2012	BQL	BQL	BQL	416.1	416.1	BQL	**9.7**	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	6/21/2012	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	9/6/2012	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	11/15/2012	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	2/21/2013	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	5/29/2013	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	8/13/2013	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	11/7/2013	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	2/11/2014	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	5/22/2014	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	8/15/2014	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	11/6/2014	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	2/25/2015	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	5/28/2015	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	9/8/2015	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	11/6/2015	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	2/17/2016	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	5/19/2016	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	8/15/2016	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	11/30/2016	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	2/16/2017	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	5/24/2017	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	8/23/2017	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	11/9/2017	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	5/18/2018	<2.0	<2.0	<2.0	<4.0	<10.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10.0	<2.0	NS	NS
	11/13/2018	<2.0	<2.0	<2.0	<4.0	<10.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10.0	<2.0	NS	NS
	5/31/2019	<2.0	<2.0	<2.0	<4.0	<10.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10.0	<2.0	NS	NS

Table 2 - Groundwater Analytical Results
Gasoline Fueling Station – Royal Farms #96
500 Mechanics Valley Road, North East, MD 21901

Well No.	Date	B	T	E	X	Total BTEX	MTBE	Naph	IPB	TCE	PCE	1,2-DCA	Acetone	Carbon Disulfide	TPH GRO	TPH DRO
	11/20/2019	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	NS	NS
	5/12/2020	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	NS	NS
MW-6	8/4/2011	BQL	9	BQL	BQL	9	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	9/15/2011	**9.3**	29	BQL	21.7	60	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	12/15/2011	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	3/15/2012	BQL	BQL	BQL	150	150	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	6/21/2012	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	9/6/2012	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.3**
	11/16/2012	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.21**
	2/22/2013	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.22**
	5/30/2013	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	8/13/2013	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	11/7/2013	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.29**
	2/11/2014	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	5/22/2014	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	8/15/2014	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	11/7/2014	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.43**
	2/25/2015	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.24**
	5/28/2015	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	9/8/2015	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	11/6/2015	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	2/17/2016	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	5/19/2016	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	8/15/2016	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	11/30/2016	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.36**
	2/16/2017	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	5/25/2017	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	8/23/2017	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	11/9/2017	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	5/18/2018	<2.0	<2.0	<2.0	<4.0	<10.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10.0	<2.0	NS	NS
	11/13/2018	<2.0	<2.0	<2.0	<4.0	<10.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10.0	<2.0	NS	NS
	5/31/2019	<2.0	<2.0	<2.0	<4.0	<10.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10.0	<2.0	NS	NS
	11/20/2019	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	NS	NS
	5/12/2020	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	NS	NS
MW-8	8/4/2011	**5.2**	12	BQL	7	24.2	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	9/15/2011	**11**	11	6.2	44	72.2	BQL	**26**	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	12/15/2011	**18**	BQL	BQL	6.9	24.9	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	3/15/2012	**28**	5.2	BQL	2300	2333.2	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	6/21/2012	**6.2**	BQL	BQL	BQL	6.2	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	9/6/2012	**33.2**	BQL	BQL	BQL	33.2	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.27**
	11/16/2012	3.4	BQL	BQL	BQL	3.4	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.20**
	2/22/2013	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.27**
	5/30/2013	**18.6**	BQL	BQL	BQL	18.6	2.8	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.34**
	8/13/2013	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	11/7/2013	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	2/11/2014	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.26**
	5/22/2014	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	8/15/2014	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	11/7/2014	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	2/25/2015	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.21**
	5/28/2015	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	6/29/2015	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NA	NA	NA	NA	NA	NA	NA	NA
	7/29/2015	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NA	NA	NA	NA	NA	NA	NA	NA
	9/8/2015	**6.8**	BQL	BQL	BQL	6.8	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	10/6/2015	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NA	NA	NA	NA	NA	NA	NA	NA
	11/6/2015	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	12/9/2015	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NA	NA	NA	NA	NA	NA	NA	NA
	1/11/2016	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NA	NA	NA	NA	NA	NA	NA	NA
	2/17/2016	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	5/19/2016	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	8/15/2016	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	11/30/2016	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	2/16/2016	2.8	BQL	BQL	BQL	2.8	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	5/25/2017	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	8/23/2017	**6.5**	BQL	BQL	BQL	6.5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	11/9/2017	**5.5**	BQL	BQL	BQL	5.5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	5/18/2018	<2.0	<2.0	<2.0	5.3	5.3	<2.0	**2.8**	<2.0	<2.0	<2.0	<2.0	<10.0	<2.0	NS	NS
	11/13/2018	<2.0	<2.0	<2.0	<4.0	<10.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10.0	<2.0	NS	NS
	5/31/2019	**39.4**	<2.0	6.2	<4.0	45.6	<2.0	**3.1**	<2.0	<2.0	<2.0	<2.0	<10.0	<2.0	NS	NS
	11/20/2019	3.8	<1.0	<1.0	<2.0	3.8	1.2	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	NS	NS
	5/12/2020	**9.5**	<1.0	2.8	<2.0	12.3	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	NS	NS
MW-9	12/15/2011	**270**	5.4	BQL	70	345.4	BQL	BQL	12	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	3/15/2012	**90**	BQL	BQL	4700	4790	**25**	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	6/21/2012	**77**	BQL	BQL	26	103	**26**	**6.3**	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	9/6/2012	**47.5**	BQL	BQL	3.9	51.4	14.7	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.219**	**2.82**
	11/16/2012	2.6	BQL	BQL	BQL	2.6	9.2	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**1.60**
	2/22/2013	BQL	BQL	BQL	BQL	BQL	7.00	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**1.22**
	5/30/2013	**9.0**	BQL	7.6	23.3	39.9	9.9	**3.7**	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**3.13**
	8/13/2013	BQL	BQL	BQL	8.5	8.5	5.5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**1.62**
	11/7/2013	BQL	BQL	BQL	2.5	2.5	BQL	**2.2**	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**3.63**
	2/11/2014	BQL	BQL	BQL	9.4	9.4	5.1	**2.8**	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**1.23**
	5/22/2014	3.4	BQL	8.8	25.4	37.6	7.1	**4.3**	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**1.62**
	8/15/2014	2.4	BQL	BQL	4.2	6.6	5.6	**4.4**	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**1.19**
	11/7/2014	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**1.26**
	2/25/2015	BQL	BQL	BQL	BQL	BQL	3.4	BQL	BQL	BQL	BQL	BQL	10.3	BQL	BQL	**1.71**
	5/28/2015	BQL	BQL	3.8	14.5	18.3	BQL	BQL	BQL	BQL	BQL	BQL	183	BQL	BQL	**2.57**
	9/8/2015	BQL	BQL	5.3	19.7	25.0	3.6	**3.2**	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**1.51**
	11/6/2015	BQL	BQL	3.1	12.5	15.6	3.0	**2.7**	BQL	BQL	BQL	BQL	BQL	BQL	**0.110**	**0.95**
	2/17/2016	BQL	BQL	5.8	17.8	23.6	3.3	**3.1**	BQL	BQL	BQL	BQL	BQL	BQL	**0.143**	**1.26**
	5/19/2016	BQL	BQL	BQL	8.9	8.9	3.6	**4.3**	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**1.48**
	8/15/2016	BQL	BQL	BQL	8.1	8.1	2.5	**3.8**	BQL	BQL	BQL	BQL	BQL	BQL	**0.120**	**0.96**
	11/30/2016	BQL	BQL	BQL	2.7	2.7	BQL	**2.2**	BQL	BQL	BQL	BQL	25.6	BQL	BQL	**1.41**
	2/16/2017	BQL	BQL	2.6	7.7	10.3	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.68**

Table 2 - Groundwater Analytical Results
Gasoline Fueling Station – Royal Farms #96
500 Mechanics Valley Road, North East, MD 21901

Well No.	Date	B	T	E	X	Total BTEX	MTBE	Naph	IPB	TCE	PCE	1,2-DCA	Acetone	Carbon Disulfide	TPH GRO	TPH DRO
	5/25/2017	BQL	BQL	4.7	16.1	20.8	BQL	**2.5**	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**1.42**
	8/23/2017	BQL	BQL	BQL	4.4	4.4	BQL	**3.2**	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**1.25**
	11/9/2017	BQL	BQL	BQL	6.4	6.4	BQL	**2.7**	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.75**
	5/18/2018	<2.0	<2.0	<2.0	<4.0	<10.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10.0	<2.0	NS	NS
	11/13/2018	<2.0	<2.0	<2.0	<4.0	<10.0	<2.0	**2.7**	<2.0	<2.0	<2.0	<2.0	<10.0	<2.0	NS	NS
	5/31/2019	<2.0	<2.0	<2.0	<4.0	<10.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10.0	<2.0	NS	NS
	11/20/2019	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	**2.9**	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	NS	NS
	5/12/2020	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	**2.1**	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	NS	NS
TP-1	6/8/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/26/2011	**13**	27	47	610	697	BQL	**110**	9.8	BQL	BQL	BQL	BQL	BQL	**3.1**	**1.9**
TP-1*	12/15/2011	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	3/15/2012	BQL	BQL	BQL	700	700	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	6/21/2012	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	9/6/2012	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.5**
	11/16/2012	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.43**
	2/22/2013	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.38**
	5/29/2013	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.47**
	8/13/2013	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.54**
	11/7/2013	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.33**
	2/11/2014	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.31**
	5/22/2014	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.32**
	8/15/2014	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.67**
	11/7/2014	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.31**
	2/25/2015	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.34**
	2/18/2016	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.34**
	2/16/2017	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
TP-2	6/8/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/26/2011	**18**	750	**700**	3166	4634	BQL	**2800**	**95**	BQL	BQL	BQL	BQL	BQL	**19**	**5.6**
TP-2*	12/15/2011	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	3/15/2012	BQL	BQL	BQL	42	42	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	6/21/2012	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	9/6/2012	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.62**
	11/16/2012	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.45**
	2/22/2013	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.39**
	5/29/2013	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.45**
	8/13/2013	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.31**
	11/7/2013	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.34**
	2/11/2014	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.44**
	5/22/2014	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.39**
	8/15/2014	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.35**
	11/7/2014	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.34**
	2/25/2015	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.27**
	2/18/2016	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.20**
	2/16/2017	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
TP-3	12/15/2011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/15/2012	BQL	BQL	BQL	63	63	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	6/21/2012	**5**	5.7	BQL	11	21.7	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	9/6/2012	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.5**
	11/19/2012	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	2/22/2013	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.25**
	5/29/2013	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.31**
	8/13/2013	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.30**
	11/7/2013	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.24**
	2/11/2014	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**1.71**
	5/22/2014	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.45**
	8/15/2014	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	11/7/2014	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	2/25/2015	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.31**
	2/17/2016	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.21**
	2/16/2017	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
TP-4	12/15/2011	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	3/15/2012	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	6/21/2012	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	9/6/2012	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.61**
	11/19/2012	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.30**
	2/22/2013	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.37**
	5/29/2013	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.41**
	8/13/2013	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.87**
	11/7/2013	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.35**
	2/11/2014	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.33**
	5/22/2014	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.82**
	8/15/2014	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.45**
	11/7/2014	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.50**
	2/25/2015	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.30**
	2/18/2016	BQL	2.3	BQL	5.4	7.7	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.37**
	2/16/2017	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Type I and II Aquifers		**5**	**1000**	**700**	**10000**	**NRS**	**20**	**0.65**	**66**	**5**	**5**	**5**	**550**	**100**	**0.047**	**0.047**

Results from VE/GE System Trial Shutdown Rebound Evaluation Sampling Event

NA - Not Analyzed

TPH GRO and DRO results in parts per million or mg/l

BTEX, MTBE, and Naphthalene, Acetone, MEK, 1,2-Dichloroethane, PCE, Carbon Disulfide, and Isopropylbenzene results in parts per billion or ug/l

BQL = Below Quantitation Limits (prior to 2018). Shown as <detection limit since 2018.

800,000 = Not sampled due to presence of liquid phase hydrocarbon (Value Assigned for Graphing Purposes)

As per the MDE Directive Letter, dated May 29, 2013 groundwater quality graphs were constructed using a log scale that was consistent for all wells.

As such, the aforementione values assigned for graphing purposes were used

B = Benzene; T = Toluene; E = Ethylbenzene; X = Xylene

MTBE = Methyl-tert-butyl-ether

Naph = Naphthalene

IPB = Isopropylbenzene

PCE = Tetrachloroethene

TCE = Trichloroethene

1,2-DCE = 1,2-dichloroethane

TPH GRO = Total Petroleum Hydrocarbons Gasoline Range Organics

Table 2 - Groundwater Analytical Results
Gasoline Fueling Station – Royal Farms #96
500 Mechanics Valley Road, North East, MD 21901

Well No.	Date	B	T	E	X	Total BTEX	MTBE	Naph	IPB	TCE	PCE	1,2-DCA	Acetone	Carbon Disulfide	TPH GRO	TPH DRO

TPH DRO = Total Petroleum Hydrocarbons Diesel Range Organics
NS = Not Sampled
This table presents all applicable dissolved phase constituents included in the quantifiable clean-up standards established by the Maryland Department of the Environment (MDE)
Some compounds may have been detected but are not tabulated on this spreadsheet as they do not have a quantifiable cleanup standard established by the MDE
See laboratory analytical results reports for full results.
MDE Standards (Generic Numeric Cleanup Standards for Groundwater and Soil - Interim Final Guidance Update No. 2.1 - June 2008)
Bold Denotes Regulatory Exceedance
Denotes Estimated Value
NRS = No Regulatory Standard
* Sample collected to confirm prior analytical results
MW-10D Shallow collected at 25-29.5 feet below top of casing
MW-10D Middle collected at 89-94 feet below top of casing
MW-10D Deep collected at 185-190 feet below top of casing.
MW-12D Shallow collected at 41-51 feet below top of casing
MW-12D Mid 1 collected at 70-75 feet below top of casing
MW-12D Mid 2 collected at 95-100 feet below top of casing
MW-12 D Deep collected at 145-150 feet below top of casing
MW-13D shallow collected at 37-42 feet below top of casing
MW-13D Deep collected at 134.5 to 139.5 feet below top of casing

Table 3 - Onsite Potable Well Treatment System Analytical Results
Fueling Station – Royal Farms #96
500 Mechanics Valley Road, North East, MD 21901

Sample Location	Date	B	T	E	X	TBA	MTBE	Naphth
Supply Influent	6/8/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	7/25/2011	BDL	5.3	3.4	16	24.7	BDL	1.2
	8/4/2011	BDL	BDL	BDL	BDL	BDL	4.8	BDL
	9/15/2011	BDL	BDL	BDL	BDL	BDL	6	BDL
	10/19/2012	BDL	BDL	BDL	BDL	BDL	2.8	BDL
	11/16/2012	BDL	BDL	BDL	BDL	BDL	2.2	BDL
	12/14/2011	BDL	BDL	BDL	BDL	BDL	2.46	BDL
	1/19/2012	BDL	BDL	BDL	BDL	BDL	2.42	BDL
	2/8/2012	BDL	BDL	BDL	BDL	BDL	4.79	BDL
	3/22/2012	BDL	BDL	BDL	BDL	BDL	4.75	BDL
	4/26/2012	BDL	BDL	BDL	BDL	BDL	3.64	BDL
	6/7/2012	BDL	BDL	BDL	BDL	BDL	5.6	BDL
	9/21/2012	BDL	BDL	BDL	BDL	BDL	2.85	BDL
	12/14/2012	BDL	BDL	BDL	BDL	BDL	1.99	BDL
	3/21/2013	BDL	BDL	BDL	BDL	BDL	2.8	BDL
	5/30/2013	BDL	BDL	BDL	BDL	BDL	3.07	BDL
	9/3/2013	BDL	BDL	BDL	BDL	BDL	2.72	BDL
	12/18/2013	BDL	BDL	BDL	BDL	BDL	3.43	BDL
	3/13/2014	BDL	BDL	BDL	BDL	BDL	2.25	BDL
	5/21/2014	BDL	BDL	BDL	BDL	BDL	1.87	BDL
	9/10/2014	BDL	BDL	BDL	BDL	BDL	3.17	BDL
	12/11/2014	BDL	BDL	BDL	BDL	BDL	4.14	BDL
	3/18/2015	BDL	BDL	BDL	BDL	BDL	3.03	BDL
	6/10/2015	BDL	BDL	BDL	BDL	BDL	2.88	BDL
	9/9/2015	BDL	BDL	BDL	BDL	BDL	4.80	BDL
	12/8/2015	BDL	BDL	BDL	BDL	BDL	4.11	BDL
	6/2/2016	BDL	0.61	BDL	BDL	BDL	4.39	BDL
	9/26/2016	BDL	BDL	BDL	BDL	BDL	2.48	BDL
	12/16/2016	BDL	BDL	BDL	BDL	BDL	3.10	BDL
	3/17/2017	BDL	BDL	BDL	BDL	BDL	2.76	BDL
	6/20/2017	BDL	BDL	BDL	BDL	BDL	2.64	BDL
	9/12/2017	BDL	BDL	BDL	BDL	BDL	3.41	BDL
	12/5/2017	BDL	BDL	BDL	BDL	BDL	2.36	BDL
	3/30/2018	<0.50	<0.50	<0.50	<1.00	<10.0	3.33	<0.50
	5/18/2018	<0.50	<0.50	<0.50	<1.00	<10.0	4.51	<0.50
	8/8/2018	<0.50	<0.50	<0.50	<1.01	<10.1	4.04	<0.51
	11/13/2018	<0.50	<0.50	<0.50	<1.01	<10.0	5.02	<0.50
	3/26/2019	<0.50	<0.50	<0.50	<1.00	<10.0	5.18	<0.50
	5/31/2019	<0.50	<0.50	<0.50	<1.00	<10.0	4.47	<0.50
	11/20/2019	<0.50	0.75	<0.50	<1.00	<10.0	3.42	<0.50
	5/12/2020	<0.50	<0.50	<0.50	<1.00	<10.0	3.25	<0.50
Filtration Mid-1	6/8/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	7/25/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	8/4/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	9/15/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	10/19/2012	BDL	BDL	BDL	BDL	BDL	0.5	BDL
	11/16/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	12/14/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	1/19/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	2/8/2012	BDL	BDL	BDL	BDL	BDL	0.77	BDL
	3/22/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	4/26/2012	BDL	BDL	BDL	BDL	BDL	1.23	BDL
	6/7/2012	BDL	BDL	BDL	BDL	BDL	1.62	BDL
	9/21/2012	BDL	BDL	BDL	BDL	BDL	0.92	BDL
	12/14/2012	BDL	BDL	BDL	BDL	BDL	1.04	BDL

Table 3 - Onsite Potable Well Treatment System Analytical Results
Fueling Station – Royal Farms #96
500 Mechanics Valley Road, North East, MD 21901

Sample Location	Date	B	T	E	X	TBA	MTBE	Naphth
	3/21/2013	BDL	BDL	BDL	BDL	BDL	0.92	BDL
	5/30/2013	BDL	BDL	BDL	BDL	BDL	1.75	BDL
	9/3/2013	BDL	BDL	BDL	BDL	BDL	1.10	BDL
	12/18/2013	BDL	BDL	BDL	BDL	BDL	1.46	BDL
	3/13/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	5/21/2014	BDL	BDL	BDL	BDL	BDL	0.66	BDL
	9/10/2014	BDL	BDL	BDL	BDL	BDL	1.42	BDL
	12/11/2014	BDL	BDL	BDL	BDL	BDL	1.41	BDL
	3/18/2015	BDL	BDL	BDL	BDL	BDL	1.54	BDL
	6/10/2015	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	9/9/2015	BDL	BDL	BDL	BDL	BDL	2.00	BDL
	12/8/2015	BDL	BDL	BDL	BDL	BDL	2.10	BDL
	6/2/2016	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	9/26/2016	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	12/16/2016	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	3/17/2017	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	6/20/2017	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	9/12/2017	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	12/5/2017	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	3/30/2018	<0.50	<0.50	<0.50	<1.00	<10.0	<0.50	<0.50
	5/18/2018	<0.50	<0.50	<0.50	<1.00	<10.0	<0.50	<0.50
	8/8/2018	<0.50	<0.50	<0.50	<1.01	<10.1	<0.50	<0.50
	11/13/2018	<0.50	<0.50	<0.50	<1.00	<10.0	<0.50	<0.50
	3/26/2019	<0.50	<0.50	<0.50	<1.00	<10.0	<0.50	<0.50
	5/31/2019	<0.50	<0.50	<0.50	<1.00	<10.0	<0.50	<0.50
	11/20/2019	<0.50	<0.50	<0.50	<1.00	<10.0	<0.50	<0.50
	5/12/2020	<0.50	<0.50	<0.50	<1.00	<10.0	<0.50	<0.50
Filtration Mid-2	6/8/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	7/25/2011	BDL	BDL	1.5	BDL	1.5	BDL	BDL
	8/4/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	9/15/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	10/19/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	11/16/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	12/14/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	1/19/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	2/8/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	3/22/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	4/26/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	6/7/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	9/21/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	12/14/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	3/21/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	5/30/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	9/3/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	12/18/2013	BDL	BDL	BDL	BDL	BDL	0.57	BDL
	3/13/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	5/21/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	9/10/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	12/11/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	3/18/2015	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	6/10/2015	BDL	BDL	BDL	BDL	BDL	1.64	BDL
	9/9/2015	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	12/8/2015	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	6/2/2016	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	9/26/2016	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Table 3 - Onsite Potable Well Treatment System Analytical Results
Fueling Station – Royal Farms #96
500 Mechanics Valley Road, North East, MD 21901

Sample Location	Date	B	T	E	X	TBA	MTBE	Naphth
	12/16/2016	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	3/17/2017	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	6/20/2017	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	9/12/2017	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	12/5/2017	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	3/30/2018	<0.50	<0.50	<0.50	<1.00	<10.0	<0.50	<0.50
	5/18/2018	<0.50	<0.50	<0.50	<1.00	<10.0	<0.50	<0.50
	8/8/2018	<0.50	<0.50	<0.50	<1.01	<10.1	<0.50	<0.50
	11/13/2018	<0.50	<0.50	<0.50	<1.00	<10.0	<0.50	<0.50
	3/26/2019	<0.50	<0.50	<0.50	<1.00	<10.0	<0.50	<0.50
	5/31/2019	<0.50	<0.50	<0.50	<1.00	<10.0	<0.50	<0.50
	11/20/2019	<0.50	<0.50	<0.50	<1.00	<10.0	<0.50	<0.50
	5/12/2020	<0.50	<0.50	<0.50	<1.00	<10.0	<0.50	<0.50
Filtration Effluent	6/8/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	7/25/2011	BDL	1.5	2	6.5	10	BDL	BDL
	8/4/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	9/15/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	10/19/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	11/16/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	12/14/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	1/19/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	2/8/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	3/22/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	4/26/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	6/7/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	9/21/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	12/14/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	3/21/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	5/30/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	9/3/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	12/18/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	3/13/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	5/21/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	9/10/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	12/11/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	3/18/2015	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	6/10/2015	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	9/9/2015	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	12/8/2015	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	6/2/2016	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	9/26/2016	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	12/16/2016	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	3/17/2017	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	6/20/2017	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	9/12/2017	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	12/5/2017	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	3/30/2018	<0.50	<0.50	<0.50	<1.00	<10.0	<0.50	<0.50
	5/18/2018	<0.50	<0.50	<0.50	<1.00	<10.0	<0.50	<0.50
	8/8/2018	<0.50	<0.50	<0.50	<1.00	<10.0	<0.50	<0.50
	11/13/2018	<0.50	<0.50	<0.50	<1.00	<10.0	<0.50	<0.50
	3/26/2019	<0.50	<0.50	<0.50	<1.00	<10.0	<0.50	<0.50
	5/31/2019	<0.50	<0.50	<0.50	<1.00	<10.0	<0.50	<0.50
	11/20/2019	<0.50	<0.50	<0.50	<1.00	<10.0	<0.50	<0.50
	5/12/2020	<0.50	<0.50	<0.50	<1.00	<10.0	<0.50	<0.50
Type I and II Aquifers		**5**	**1000**	**700**	**10000**	**NRS**	**20**	**0.65**

Table 3 - Onsite Potable Well Treatment System Analytical Results
Fueling Station – Royal Farms #96
500 Mechanics Valley Road, North East, MD 21901

Sample Location	Date	B	T	E	X	TBA	MTBE	Naphth

Data collected prior to the detection of the release (June 2011) has been omitted

BTEX and MTBE results in parts per billion or ug/l

BDL = Below Detection Limits (prior to 2018). Shown as <detection limit since 2018.

B = Benzene; T = Toluene; E = Ethylbenzene; X = Xylene

TBA = tert-Butanol; MTBE = Methyl-tert-butyl-ether; Naphth = Naphthalene

NS = Not Sampled NA = Not Accessible

Some compounds may have been detected but are not tabulated on this spreadsheet.

See laboratory analytical results reports for full results.

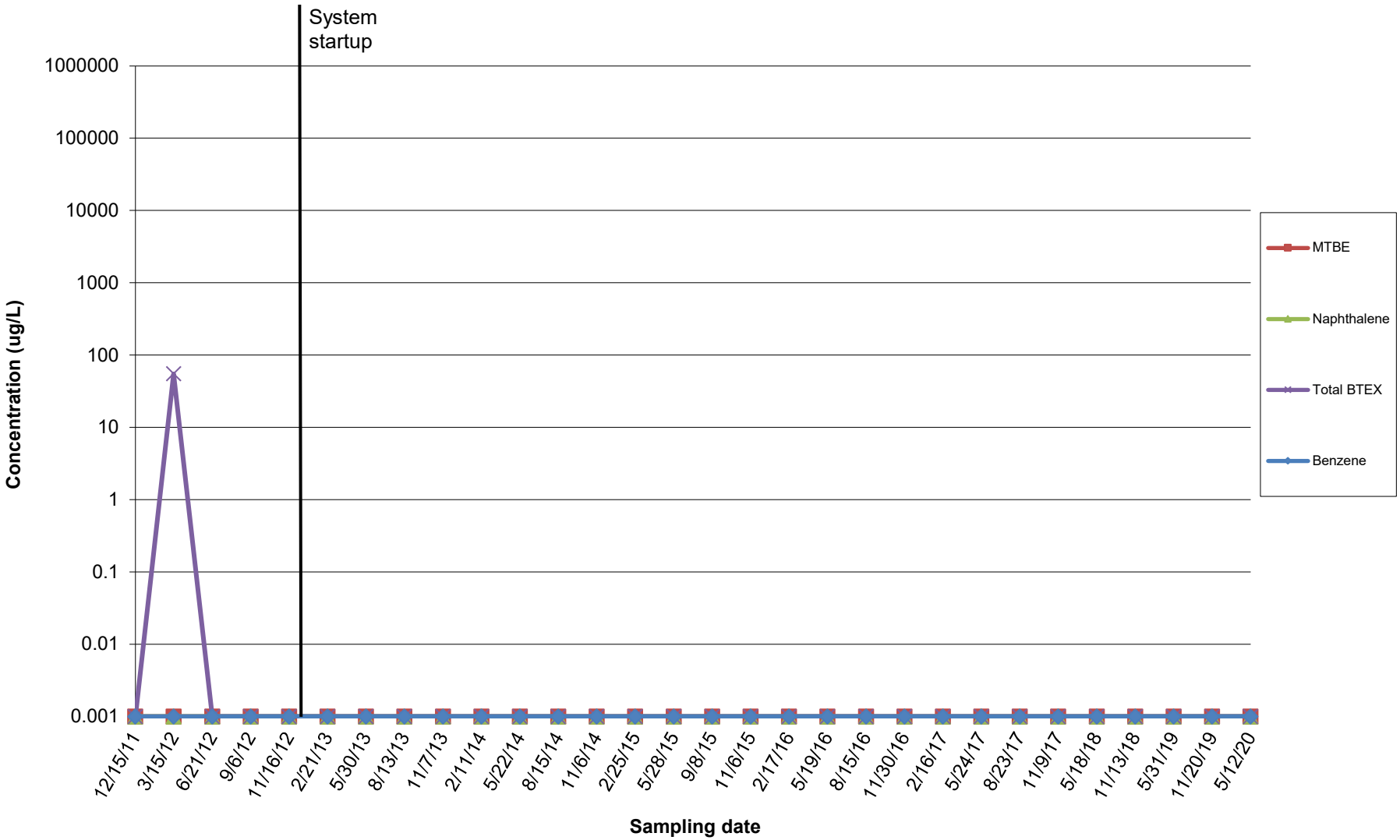
MDE Standards (Generic Numeric Cleanup Standards for Groundwater and Soil - Interim Final Guidance Update No. 2.1 - June 2008)

NRS = No Regulatory Standard

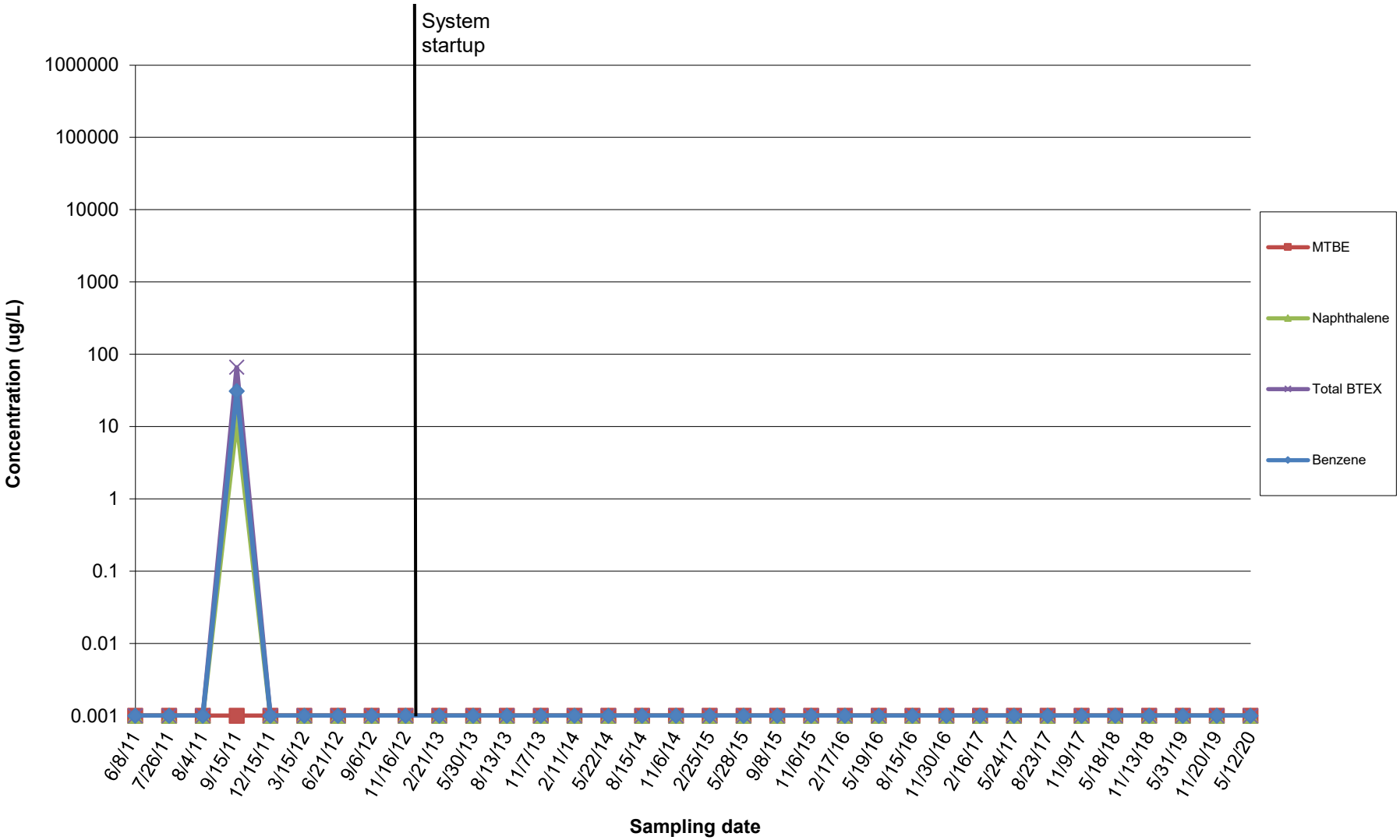
J Denotes Estimated Value

Attachment C

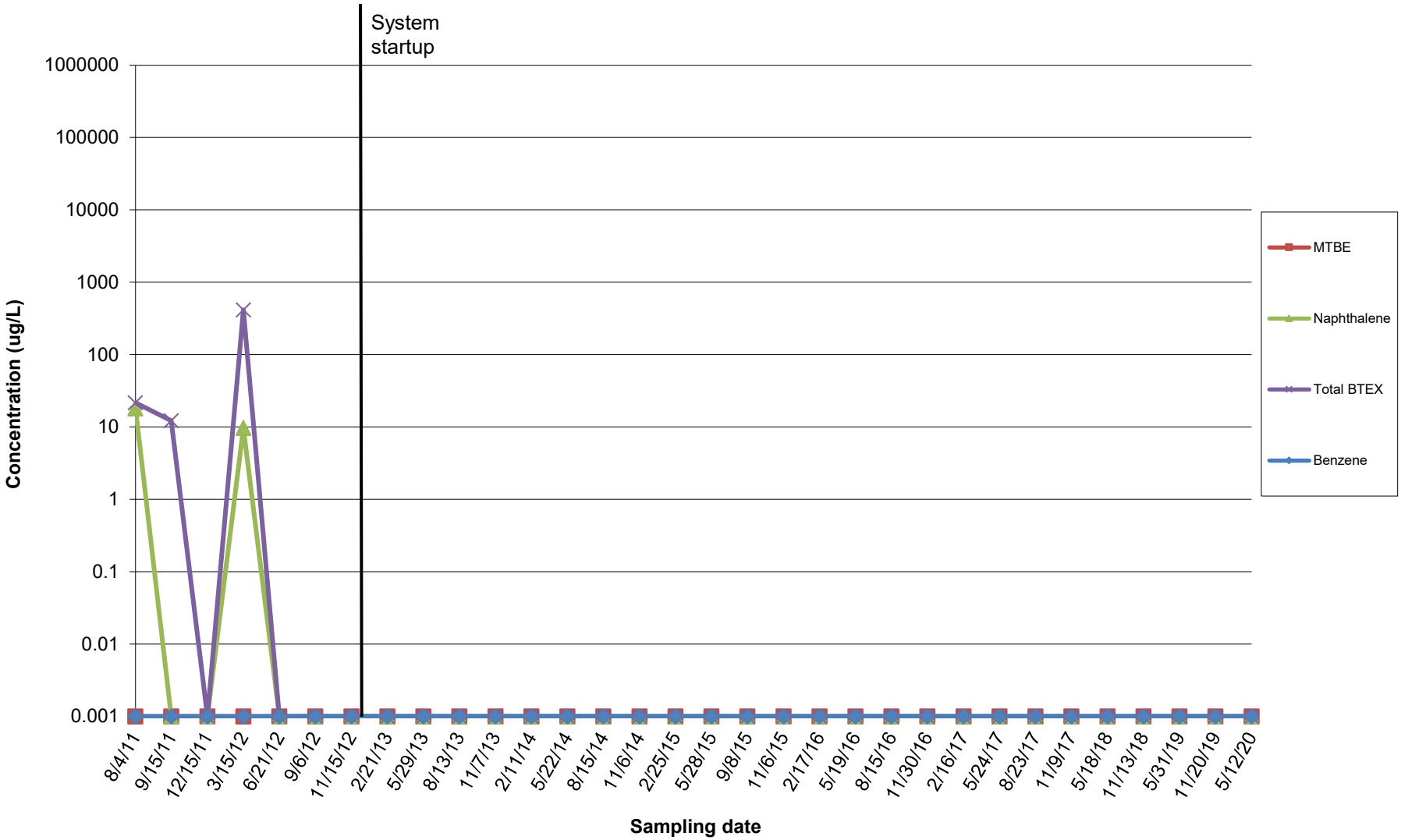
Graph 1 - MW-1R Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



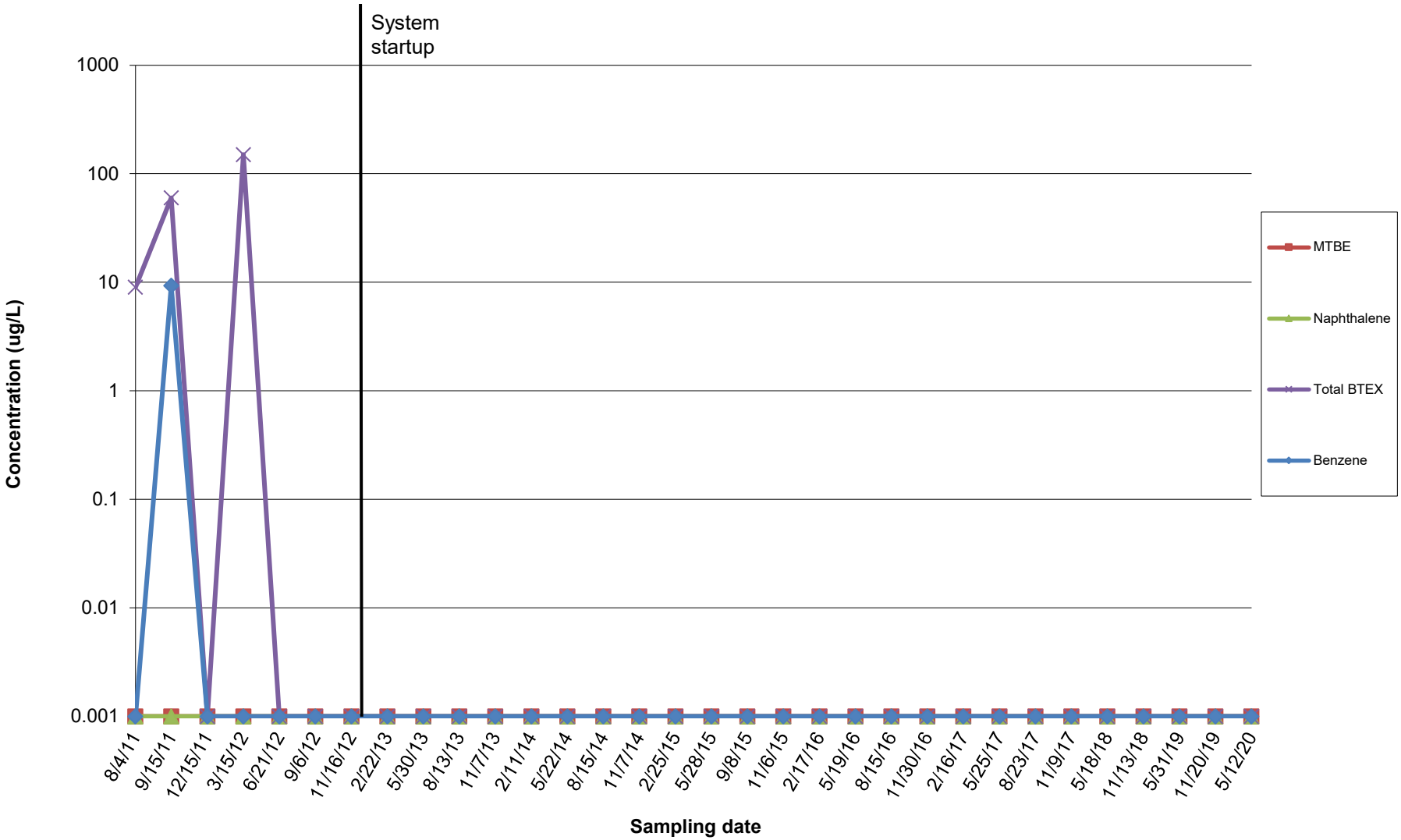
Graph 2 - MW-2 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



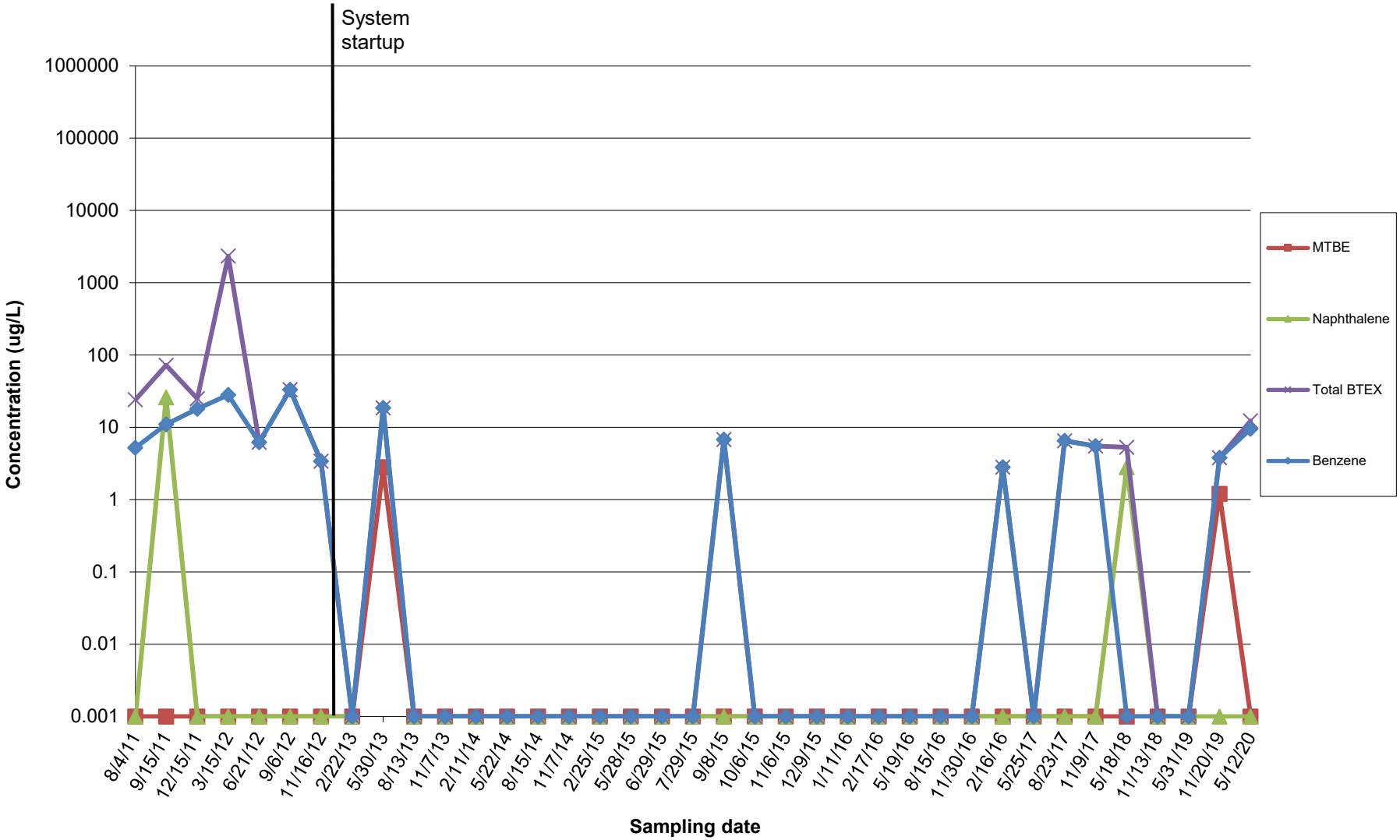
Graph 3 - MW-4 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



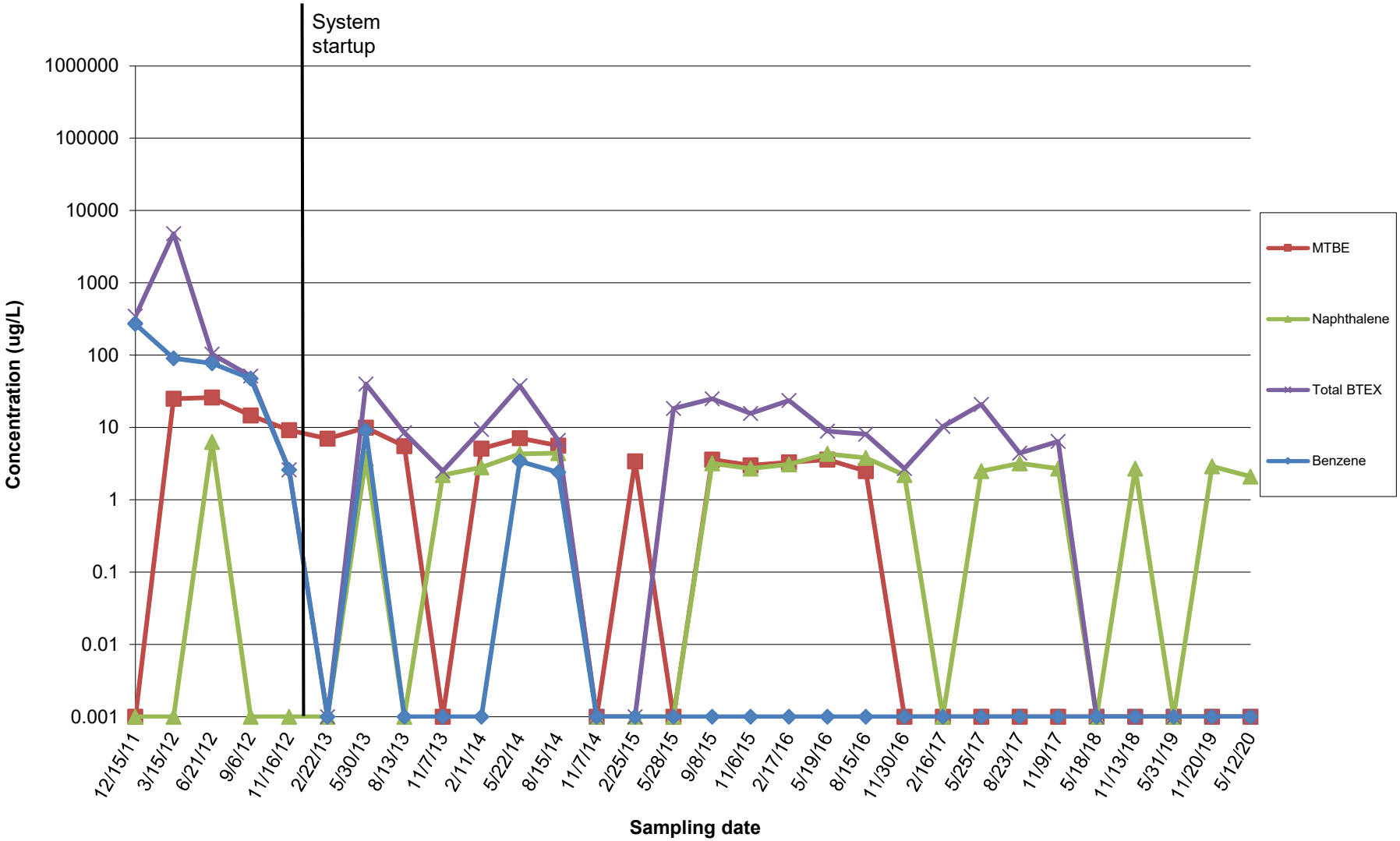
Graph 4 - MW-6 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



Graph 5 - MW-8 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



Graph 6 - MW-9 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



Attachment D

Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
VELAP ID 460040

19 May 2020

Jeffery Stein
Advantage Environmental Consultants
8610 Washington Blvd, Suite 217
Jessup, MD 20794
RE: RF-096

Enclosed are the results of analyses for samples received by the laboratory on 05/12/20 16:25.

Maryland Spectral Services, Inc. is a TNI 2009 Standard accredited laboratory and as such, all analyses performed at Maryland Spectral Services included in this report are 2009 TNI certified except as indicated at the end of this report. Please visit our website at www.mdspectral.com for a complete listing of our TNI 2009 Standard accreditations.

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

Sincerely,

Will Brewington
President

Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Analytical Results

Project: RF-096

Project Number: 05-056-RF96
Project Manager: Jeffery Stein

Reported:
05/19/20 10:49

Client Sample ID	Alternate Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1R		0051211-01	Nonpotable Water	05/12/20 13:35	05/12/20 16:25
MW-2		0051211-02	Nonpotable Water	05/12/20 14:20	05/12/20 16:25
MW-4		0051211-03	Nonpotable Water	05/12/20 13:40	05/12/20 16:25
MW-6		0051211-04	Nonpotable Water	05/12/20 13:50	05/12/20 16:25
MW-8		0051211-05	Nonpotable Water	05/12/20 14:00	05/12/20 16:25
MW-9		0051211-06	Nonpotable Water	05/12/20 14:10	05/12/20 16:25

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report.

Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Analytical Results

Project: RF-096

Project Number: 05-056-RF96
Project Manager: Jeffery Stein

Reported:
05/19/20 10:49

MW-1R

0051211-01 (Nonpotable Water)
Sample Date: 05/12/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	05/18/20	05/18/20 17:28	GM
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	05/18/20	05/18/20 17:28	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
Benzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
Bromoform	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
Bromomethane	ND		ug/L	5.0	5.0	1	05/18/20	05/18/20 17:28	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	05/18/20	05/18/20 17:28	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	05/18/20	05/18/20 17:28	GM
n-Butylbenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
Chloroethane	ND		ug/L	5.0	5.0	1	05/18/20	05/18/20 17:28	GM
Chloroform	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
Chloromethane	ND		ug/L	5.0	5.0	1	05/18/20	05/18/20 17:28	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM

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Will Brewington, President

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report.

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Project: RF-096

Project Number: 05-056-RF96
Project Manager: Jeffery Stein

Reported:
05/19/20 10:49

MW-1R

0051211-01 (Nonpotable Water)
Sample Date: 05/12/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
Ethylbenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	05/18/20	05/18/20 17:28	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	05/18/20	05/18/20 17:28	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	05/18/20	05/18/20 17:28	GM
Naphthalene	ND		ug/L	2.0	2.0	1	05/18/20	05/18/20 17:28	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
Styrene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
Toluene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM

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Will Brewington, President

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Analytical Results

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Project: RF-096

Project Number: 05-056-RF96
Project Manager: Jeffery Stein

Reported:
05/19/20 10:49

MW-1R

0051211-01 (Nonpotable Water)
Sample Date: 05/12/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
o-Xylene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:28	GM
Surrogate: 1,2-Dichloroethane-d4			*75-125*	*102 %*		*05/18/20*	*05/18/20 17:28*		
Surrogate: Toluene-d8			*75-120*	*99 %*		*05/18/20*	*05/18/20 17:28*		
Surrogate: 4-Bromofluorobenzene			*78-110*	*93 %*		*05/18/20*	*05/18/20 17:28*		

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Will Brewington, President

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Analytical Results

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Project: RF-096

Project Number: 05-056-RF96
Project Manager: Jeffery Stein

Reported:
05/19/20 10:49

MW-2

0051211-02 (Nonpotable Water)
Sample Date: 05/12/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	05/18/20	05/18/20 17:52	GM
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	05/18/20	05/18/20 17:52	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
Benzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
Bromoform	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
Bromomethane	ND		ug/L	5.0	5.0	1	05/18/20	05/18/20 17:52	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	05/18/20	05/18/20 17:52	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	05/18/20	05/18/20 17:52	GM
n-Butylbenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
Chloroethane	ND		ug/L	5.0	5.0	1	05/18/20	05/18/20 17:52	GM
Chloroform	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
Chloromethane	ND		ug/L	5.0	5.0	1	05/18/20	05/18/20 17:52	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM

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Will Brewington, President

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1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Project: RF-096

Project Number: 05-056-RF96
Project Manager: Jeffery Stein

Reported:
05/19/20 10:49

MW-2

0051211-02 (Nonpotable Water)
Sample Date: 05/12/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
Ethylbenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	05/18/20	05/18/20 17:52	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	05/18/20	05/18/20 17:52	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	05/18/20	05/18/20 17:52	GM
Naphthalene	ND		ug/L	2.0	2.0	1	05/18/20	05/18/20 17:52	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
Styrene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
Toluene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM

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Analytical Results

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Project: RF-096

Project Number: 05-056-RF96
Project Manager: Jeffery Stein

Reported:
05/19/20 10:49

MW-2

0051211-02 (Nonpotable Water)
Sample Date: 05/12/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
o-Xylene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 17:52	GM
Surrogate: 1,2-Dichloroethane-d4			*75-125*	*100 %*	*05/18/20*		*05/18/20 17:52*		
Surrogate: Toluene-d8			*75-120*	*100 %*	*05/18/20*		*05/18/20 17:52*		
Surrogate: 4-Bromofluorobenzene			*78-110*	*94 %*	*05/18/20*		*05/18/20 17:52*		

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Maryland spectral Services

Analytical Chemistry Services

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410-247-7600
www.mdspectral.com

Analytical Results

Project: RF-096

Project Number: 05-056-RF96
Project Manager: Jeffery Stein

Reported:
05/19/20 10:49

MW-4

0051211-03 (Nonpotable Water)
Sample Date: 05/12/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	05/18/20	05/18/20 18:15	GM
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	05/18/20	05/18/20 18:15	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
Benzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
Bromoform	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
Bromomethane	ND		ug/L	5.0	5.0	1	05/18/20	05/18/20 18:15	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	05/18/20	05/18/20 18:15	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	05/18/20	05/18/20 18:15	GM
n-Butylbenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
Chloroethane	ND		ug/L	5.0	5.0	1	05/18/20	05/18/20 18:15	GM
Chloroform	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
Chloromethane	ND		ug/L	5.0	5.0	1	05/18/20	05/18/20 18:15	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM

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Baltimore MD 21227
410-247-7600
www.mdspectral.com

Project: RF-096

Project Number: 05-056-RF96
Project Manager: Jeffery Stein

Reported:
05/19/20 10:49

MW-4

0051211-03 (Nonpotable Water)
Sample Date: 05/12/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
Ethylbenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	05/18/20	05/18/20 18:15	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	05/18/20	05/18/20 18:15	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	05/18/20	05/18/20 18:15	GM
Naphthalene	ND		ug/L	2.0	2.0	1	05/18/20	05/18/20 18:15	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
Styrene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
Toluene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM

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Analytical Results

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Baltimore MD 21227
410-247-7600
www.mdspectral.com

Project: RF-096

Project Number: 05-056-RF96
Project Manager: Jeffery Stein

Reported:
05/19/20 10:49

MW-4

0051211-03 (Nonpotable Water)
Sample Date: 05/12/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
o-Xylene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:15	GM
Surrogate: 1,2-Dichloroethane-d4			*75-125*	*104 %*		*05/18/20*		*05/18/20 18:15*	
Surrogate: Toluene-d8			*75-120*	*100 %*		*05/18/20*		*05/18/20 18:15*	
Surrogate: 4-Bromofluorobenzene			*78-110*	*93 %*		*05/18/20*		*05/18/20 18:15*	

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Maryland spectral Services

Analytical Chemistry Services

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Analytical Results

Project: RF-096

Project Number: 05-056-RF96
Project Manager: Jeffery Stein

Reported:
05/19/20 10:49

MW-6

0051211-04 (Nonpotable Water)
Sample Date: 05/12/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	05/18/20	05/18/20 18:38	GM
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	05/18/20	05/18/20 18:38	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
Benzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
Bromoform	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
Bromomethane	ND		ug/L	5.0	5.0	1	05/18/20	05/18/20 18:38	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	05/18/20	05/18/20 18:38	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	05/18/20	05/18/20 18:38	GM
n-Butylbenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
Chloroethane	ND		ug/L	5.0	5.0	1	05/18/20	05/18/20 18:38	GM
Chloroform	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
Chloromethane	ND		ug/L	5.0	5.0	1	05/18/20	05/18/20 18:38	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM

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Project: RF-096

Project Number: 05-056-RF96
Project Manager: Jeffery Stein

Reported:
05/19/20 10:49

MW-6

0051211-04 (Nonpotable Water)
Sample Date: 05/12/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
Ethylbenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	05/18/20	05/18/20 18:38	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	05/18/20	05/18/20 18:38	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	05/18/20	05/18/20 18:38	GM
Naphthalene	ND		ug/L	2.0	2.0	1	05/18/20	05/18/20 18:38	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
Styrene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
Toluene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM

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Analytical Results

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Project: RF-096

Project Number: 05-056-RF96
Project Manager: Jeffery Stein

Reported:
05/19/20 10:49

MW-6

0051211-04 (Nonpotable Water)
Sample Date: 05/12/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
o-Xylene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 18:38	GM
Surrogate: 1,2-Dichloroethane-d4			*75-125*	*101 %*	*05/18/20*		*05/18/20 18:38*		
Surrogate: Toluene-d8			*75-120*	*99 %*	*05/18/20*		*05/18/20 18:38*		
Surrogate: 4-Bromofluorobenzene			*78-110*	*94 %*	*05/18/20*		*05/18/20 18:38*		

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Analytical Results

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Project: RF-096

Project Number: 05-056-RF96
Project Manager: Jeffery Stein

Reported:
05/19/20 10:49

MW-8

0051211-05 (Nonpotable Water)
Sample Date: 05/12/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	05/18/20	05/18/20 19:02	GM
tert-Amyl alcohol (TAA)	**28.6**		ug/L	20.0	20.0	1	05/18/20	05/18/20 19:02	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
Benzene	**9.5**		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
Bromoform	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
Bromomethane	ND		ug/L	5.0	5.0	1	05/18/20	05/18/20 19:02	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	05/18/20	05/18/20 19:02	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	05/18/20	05/18/20 19:02	GM
n-Butylbenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
Chloroethane	ND		ug/L	5.0	5.0	1	05/18/20	05/18/20 19:02	GM
Chloroform	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
Chloromethane	ND		ug/L	5.0	5.0	1	05/18/20	05/18/20 19:02	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM

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Baltimore MD 21227
410-247-7600
www.mdspectral.com

Project: RF-096

Project Number: 05-056-RF96
Project Manager: Jeffery Stein

Reported:
05/19/20 10:49

MW-8

0051211-05 (Nonpotable Water)
Sample Date: 05/12/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
Ethylbenzene	**2.8**		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	05/18/20	05/18/20 19:02	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	05/18/20	05/18/20 19:02	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	05/18/20	05/18/20 19:02	GM
Naphthalene	ND		ug/L	2.0	2.0	1	05/18/20	05/18/20 19:02	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
Styrene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
Toluene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM

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Analytical Results

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Baltimore MD 21227
410-247-7600
www.mdspectral.com

Project: RF-096

Project Number: 05-056-RF96
Project Manager: Jeffery Stein

Reported:
05/19/20 10:49

MW-8

0051211-05 (Nonpotable Water)
Sample Date: 05/12/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
1,2,4-Trimethylbenzene	**1.2**	J	ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
o-Xylene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:02	GM
Surrogate: 1,2-Dichloroethane-d4			*75-125*	*102 %*		*05/18/20*	*05/18/20 19:02*		
Surrogate: Toluene-d8			*75-120*	*100 %*		*05/18/20*	*05/18/20 19:02*		
Surrogate: 4-Bromofluorobenzene			*78-110*	*96 %*		*05/18/20*	*05/18/20 19:02*		

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Analytical Results

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Project: RF-096

Project Number: 05-056-RF96
Project Manager: Jeffery Stein

Reported:
05/19/20 10:49

MW-9

0051211-06 (Nonpotable Water)
Sample Date: 05/12/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	05/18/20	05/18/20 19:25	GM
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	05/18/20	05/18/20 19:25	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
Benzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
Bromoform	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
Bromomethane	ND		ug/L	5.0	5.0	1	05/18/20	05/18/20 19:25	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	05/18/20	05/18/20 19:25	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	05/18/20	05/18/20 19:25	GM
n-Butylbenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
Chloroethane	ND		ug/L	5.0	5.0	1	05/18/20	05/18/20 19:25	GM
Chloroform	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
Chloromethane	ND		ug/L	5.0	5.0	1	05/18/20	05/18/20 19:25	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM

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Baltimore MD 21227
410-247-7600
www.mdspectral.com

Project: RF-096

Project Number: 05-056-RF96
Project Manager: Jeffery Stein

Reported:
05/19/20 10:49

MW-9

0051211-06 (Nonpotable Water)
Sample Date: 05/12/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
Ethylbenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	05/18/20	05/18/20 19:25	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	05/18/20	05/18/20 19:25	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	05/18/20	05/18/20 19:25	GM
Naphthalene	**2.1**		ug/L	2.0	2.0	1	05/18/20	05/18/20 19:25	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
Styrene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
Toluene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report.

Analytical Results

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Project: RF-096

Project Number: 05-056-RF96
Project Manager: Jeffery Stein

Reported:
05/19/20 10:49

MW-9

0051211-06 (Nonpotable Water)
Sample Date: 05/12/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
o-Xylene	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	05/18/20	05/18/20 19:25	GM
Surrogate: 1,2-Dichloroethane-d4			*75-125*	*100 %*			*05/18/20*	*05/18/20 19:25*	
Surrogate: Toluene-d8			*75-120*	*101 %*			*05/18/20*	*05/18/20 19:25*	
Surrogate: 4-Bromofluorobenzene			*78-110*	*97 %*			*05/18/20*	*05/18/20 19:25*	

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Will Brewington, President

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1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Project: RF-096

Project Number: 05-056-RF96
Project Manager: Jeffery Stein

Reported:
05/19/20 10:49

Notes and Definitions

J	Detected but below the reporting limit; therefore, result is an estimated concentration (CLP J-Flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
%-Solids	Percent Solids is a supportive test and as such does not require accreditation

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Will Brewington, President

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report.

CHAIN-OF-CUSTODY RECORD

Maryland Spectral Services, Inc.
1500 Caton Center Drive, Suite G
Baltimore, MD 21227
410–247–7600 • Fax 410–247–7602
labman@mdspectral.com

Matrix Codes: NW (nonpotable water)
PW (potable water)

Company Name:	Project Manager:
AEC	J. Stein
Project Name:	**Project ID:**
RF-096	05-056-096
Sampler(s):	**P.O. Number:**
B. Taetzsch	05-056-096

Analysis Requested: VOC, 8260

Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	Preservative: 1+1 HCL, H_2SO_4, Methanol, $Na_2S_2O_3$, $NaHCO_3$	Field pH, Residual Chlorine, QC Request, Trip Blank, Field Blank	MSS Lab ID
MW-1R	5/12/20	13:35	X			2			0051211-01
MW-2		14:20							-02
MW-4		13:40							-03
MW-6		13:50							-04
MW-8		14:00							-05
MW-9		14:10							-06

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
(Printed) Brian Taetzsch	5/12/20 16:25	(Printed)	(Printed)		(Printed)
Relinquished by: (Signature)	Date/Time	Received by Lab: (Signature)			
(Printed)	5/12/20 16:25	(Printed) Rachel Horner			

Turn Around Time:
- ☑ Normal (7 day)
- ☐ 5 day
- ☐ 4 day
- ☐ 3 day
- ☐ Rush (2 day)
- ☐ Next Day
- ☐ Other: _____
- ☐ Specific Due Date: _____

Lab Use:
Temp: 13.0 °C
- ☑ Received on Ice
- ☑ Received same day
- ☐ Preservation Appropriate

Delivery Method:
- ☐ Courier
- ☑ Client
- ☐ UPS
- ☐ FedEx
- ☐ USPS
- ☐ Other: _____

Special Instructions/QC Requirements & Comments:
results to:
jstein btaetzsch
jsheidy
sdossel

Sample Disposal:
- ☐ Return to Client
- ☐ Disposal by lab
- ☐ Archive for _____ days

MSS-F001-03/13

Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
MD DW LabID 153

15 May 2020

Jeffery Stein
Advantage Environmental Consultants
8610 Washington Blvd, Suite 217
Jessup, MD 20794
RE: RF-096

Enclosed are the results of analyses for samples received by the laboratory on 05/12/20 16:25.

Please visit our website at www.mdspectral.com for a complete listing of our accreditations.

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

Sincerely,

Will Brewington
President

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
MD DW LabID 153

Project: RF-096

Project Number: 05-056-RF96
Project Manager: Jeffery Stein

Reported:
05/15/20 10:35

Client Sample ID	Alternate Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW-1		0051210-01	Drinking Water	05/12/20 10:50	05/12/20 16:25
PW-2A		0051210-02	Drinking Water	05/12/20 10:46	05/12/20 16:25
PW-2B		0051210-03	Drinking Water	05/12/20 10:42	05/12/20 16:25
PW-3		0051210-04	Drinking Water	05/12/20 10:38	05/12/20 16:25

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
MD DW LabID 153

Project: RF-096

Project Number: 05-056-RF96
Project Manager: Jeffery Stein

Reported:
05/15/20 10:35

PW-1

0051210-01 (Drinking Water)
Sample Date: 05/12/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 524.2 (GC/MS) Prepared by GCMS-WATER-VOLATILES									
tert-Amyl alcohol (TAA)	ND		ug/L	10.0	10.0	1	05/13/20	05/13/20 14:28	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
Benzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
Bromobenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
Bromochloromethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
Bromodichloromethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
Bromoform	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
Bromomethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
tert-Butanol (TBA)	ND		ug/L	10.0	10.0	1	05/13/20	05/13/20 14:28	GM
n-Butylbenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
sec-Butylbenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
tert-Butylbenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
Carbon tetrachloride	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
Chlorobenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
Chloroethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
Chloroform	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
Chloromethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
2-Chlorotoluene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
4-Chlorotoluene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
Dibromochloromethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
1,2-Dibromoethane (EDB)	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
Dibromomethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
1,2-Dichlorobenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
1,3-Dichlorobenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
1,4-Dichlorobenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
Dichlorodifluoromethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
1,1-Dichloroethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
1,2-Dichloroethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
1,1-Dichloroethene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
cis-1,2-Dichloroethene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
trans-1,2-Dichloroethene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM

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Will Brewington, President

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
MD DW LabID 153

Project: RF-096

Project Number: 05-056-RF96
Project Manager: Jeffery Stein

Reported:
05/15/20 10:35

PW-1

0051210-01 (Drinking Water)
Sample Date: 05/12/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 524.2 (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
1,2-Dichloropropane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
1,3-Dichloropropane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
2,2-Dichloropropane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
1,1-Dichloropropene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
cis-1,3-Dichloropropene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
trans-1,3-Dichloropropene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
Diisopropyl ether (DIPE)	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
Ethylbenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
Hexachlorobutadiene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
Isopropylbenzene (Cumene)	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
4-Isopropyltoluene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
Methyl tert-butyl ether (MTBE)	**3.25**		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
Methylene chloride	ND		ug/L	1.00	1.00	1	05/13/20	05/13/20 14:28	GM
Naphthalene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
n-Propylbenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
Styrene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
Tetrachloroethene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
Toluene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
1,2,3-Trichlorobenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
1,2,4-Trichlorobenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
1,1,1-Trichloroethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
1,1,2-Trichloroethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
Trichloroethene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
1,2,3-Trichloropropane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
1,2,4-Trimethylbenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
1,3,5-Trimethylbenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
Vinyl chloride	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
o-Xylene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM

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Will Brewington, President

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
MD DW LabID 153

Project: RF-096

Project Number: 05-056-RF96
Project Manager: Jeffery Stein

Reported:
05/15/20 10:35

PW-1

0051210-01 (Drinking Water)
Sample Date: 05/12/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 524.2 (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
m- & p-Xylenes	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:28	GM
Surrogate: 4-Bromofluorobenzene			*80-120*	*103 %*		*05/13/20*		*05/13/20 14:28*	
Surrogate: 1,2-Dichlorobenzene-d4			*80-120*	*106 %*		*05/13/20*		*05/13/20 14:28*	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
MD DW LabID 153

Project: RF-096

Project Number: 05-056-RF96
Project Manager: Jeffery Stein

Reported:
05/15/20 10:35

PW-2A

0051210-02 (Drinking Water)
Sample Date: 05/12/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 524.2 (GC/MS) Prepared by GCMS-WATER-VOLATILES									
tert-Amyl alcohol (TAA)	ND		ug/L	10.0	10.0	1	05/13/20	05/13/20 14:51	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
Benzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
Bromobenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
Bromochloromethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
Bromodichloromethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
Bromoform	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
Bromomethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
tert-Butanol (TBA)	ND		ug/L	10.0	10.0	1	05/13/20	05/13/20 14:51	GM
n-Butylbenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
sec-Butylbenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
tert-Butylbenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
Carbon tetrachloride	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
Chlorobenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
Chloroethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
Chloroform	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
Chloromethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
2-Chlorotoluene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
4-Chlorotoluene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
Dibromochloromethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
1,2-Dibromoethane (EDB)	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
Dibromomethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
1,2-Dichlorobenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
1,3-Dichlorobenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
1,4-Dichlorobenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
Dichlorodifluoromethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
1,1-Dichloroethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
1,2-Dichloroethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
1,1-Dichloroethene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
cis-1,2-Dichloroethene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
trans-1,2-Dichloroethene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM

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Will Brewington, President

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
MD DW LabID 153

Project: RF-096

Project Number: 05-056-RF96
Project Manager: Jeffery Stein

Reported:
05/15/20 10:35

PW-2A

0051210-02 (Drinking Water)
Sample Date: 05/12/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 524.2 (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
1,2-Dichloropropane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
1,3-Dichloropropane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
2,2-Dichloropropane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
1,1-Dichloropropene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
cis-1,3-Dichloropropene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
trans-1,3-Dichloropropene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
Diisopropyl ether (DIPE)	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
Ethylbenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
Hexachlorobutadiene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
Isopropylbenzene (Cumene)	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
4-Isopropyltoluene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
Methylene chloride	ND		ug/L	1.00	1.00	1	05/13/20	05/13/20 14:51	GM
Naphthalene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
n-Propylbenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
Styrene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
Tetrachloroethene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
Toluene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
1,2,3-Trichlorobenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
1,2,4-Trichlorobenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
1,1,1-Trichloroethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
1,1,2-Trichloroethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
Trichloroethene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
1,2,3-Trichloropropane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
1,2,4-Trimethylbenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
1,3,5-Trimethylbenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
Vinyl chloride	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
o-Xylene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM

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Baltimore MD 21227
410-247-7600
www.mdspectral.com
MD DW LabID 153

Project: RF-096

Project Number: 05-056-RF96
Project Manager: Jeffery Stein

Reported:
05/15/20 10:35

PW-2A

0051210-02 (Drinking Water)
Sample Date: 05/12/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 524.2 (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
m- & p-Xylenes	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 14:51	GM
Surrogate: 4-Bromofluorobenzene			*80-120*	*100 %*		*05/13/20*		*05/13/20 14:51*	
Surrogate: 1,2-Dichlorobenzene-d4			*80-120*	*106 %*		*05/13/20*		*05/13/20 14:51*	

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MD DW LabID 153

Project: RF-096

Project Number: 05-056-RF96
Project Manager: Jeffery Stein

Reported:
05/15/20 10:35

PW-2B

0051210-03 (Drinking Water)
Sample Date: 05/12/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 524.2 (GC/MS) Prepared by GCMS-WATER-VOLATILES									
tert-Amyl alcohol (TAA)	ND		ug/L	10.0	10.0	1	05/13/20	05/13/20 15:15	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
Benzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
Bromobenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
Bromochloromethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
Bromodichloromethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
Bromoform	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
Bromomethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
tert-Butanol (TBA)	ND		ug/L	10.0	10.0	1	05/13/20	05/13/20 15:15	GM
n-Butylbenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
sec-Butylbenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
tert-Butylbenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
Carbon tetrachloride	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
Chlorobenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
Chloroethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
Chloroform	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
Chloromethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
2-Chlorotoluene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
4-Chlorotoluene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
Dibromochloromethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
1,2-Dibromoethane (EDB)	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
Dibromomethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
1,2-Dichlorobenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
1,3-Dichlorobenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
1,4-Dichlorobenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
Dichlorodifluoromethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
1,1-Dichloroethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
1,2-Dichloroethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
1,1-Dichloroethene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
cis-1,2-Dichloroethene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
trans-1,2-Dichloroethene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM

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Will Brewington, President

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410-247-7600
www.mdspectral.com
MD DW LabID 153

Project: RF-096

Project Number: 05-056-RF96
Project Manager: Jeffery Stein

Reported:
05/15/20 10:35

PW-2B

0051210-03 (Drinking Water)
Sample Date: 05/12/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 524.2 (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
1,2-Dichloropropane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
1,3-Dichloropropane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
2,2-Dichloropropane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
1,1-Dichloropropene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
cis-1,3-Dichloropropene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
trans-1,3-Dichloropropene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
Diisopropyl ether (DIPE)	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
Ethylbenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
Hexachlorobutadiene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
Isopropylbenzene (Cumene)	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
4-Isopropyltoluene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
Methylene chloride	ND		ug/L	1.00	1.00	1	05/13/20	05/13/20 15:15	GM
Naphthalene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
n-Propylbenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
Styrene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
Tetrachloroethene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
Toluene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
1,2,3-Trichlorobenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
1,2,4-Trichlorobenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
1,1,1-Trichloroethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
1,1,2-Trichloroethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
Trichloroethene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
1,2,3-Trichloropropane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
1,2,4-Trimethylbenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
1,3,5-Trimethylbenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
Vinyl chloride	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
o-Xylene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM

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1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
MD DW LabID 153

Project: RF-096

Project Number: 05-056-RF96
Project Manager: Jeffery Stein

Reported:
05/15/20 10:35

PW-2B

0051210-03 (Drinking Water)
Sample Date: 05/12/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 524.2 (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
m- & p-Xylenes	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:15	GM
Surrogate: 4-Bromofluorobenzene			*80-120*	*96 %*		*05/13/20*		*05/13/20 15:15*	
Surrogate: 1,2-Dichlorobenzene-d4			*80-120*	*103 %*		*05/13/20*		*05/13/20 15:15*	

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MD DW LabID 153

Project: RF-096

Project Number: 05-056-RF96
Project Manager: Jeffery Stein

Reported:
05/15/20 10:35

PW-3

0051210-04 (Drinking Water)
Sample Date: 05/12/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 524.2 (GC/MS) Prepared by GCMS-WATER-VOLATILES									
tert-Amyl alcohol (TAA)	ND		ug/L	10.0	10.0	1	05/13/20	05/13/20 15:38	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
Benzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
Bromobenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
Bromochloromethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
Bromodichloromethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
Bromoform	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
Bromomethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
tert-Butanol (TBA)	ND		ug/L	10.0	10.0	1	05/13/20	05/13/20 15:38	GM
n-Butylbenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
sec-Butylbenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
tert-Butylbenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
Carbon tetrachloride	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
Chlorobenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
Chloroethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
Chloroform	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
Chloromethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
2-Chlorotoluene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
4-Chlorotoluene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
Dibromochloromethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
1,2-Dibromoethane (EDB)	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
Dibromomethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
1,2-Dichlorobenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
1,3-Dichlorobenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
1,4-Dichlorobenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
Dichlorodifluoromethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
1,1-Dichloroethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
1,2-Dichloroethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
1,1-Dichloroethene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
cis-1,2-Dichloroethene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
trans-1,2-Dichloroethene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM

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410-247-7600
www.mdspectral.com
MD DW LabID 153

Project: RF-096

Project Number: 05-056-RF96
Project Manager: Jeffery Stein

Reported:
05/15/20 10:35

PW-3

0051210-04 (Drinking Water)
Sample Date: 05/12/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 524.2 (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
1,2-Dichloropropane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
1,3-Dichloropropane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
2,2-Dichloropropane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
1,1-Dichloropropene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
cis-1,3-Dichloropropene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
trans-1,3-Dichloropropene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
Diisopropyl ether (DIPE)	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
Ethylbenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
Hexachlorobutadiene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
Isopropylbenzene (Cumene)	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
4-Isopropyltoluene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
Methylene chloride	ND		ug/L	1.00	1.00	1	05/13/20	05/13/20 15:38	GM
Naphthalene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
n-Propylbenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
Styrene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
Tetrachloroethene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
Toluene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
1,2,3-Trichlorobenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
1,2,4-Trichlorobenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
1,1,1-Trichloroethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
1,1,2-Trichloroethane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
Trichloroethene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
1,2,3-Trichloropropane	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
1,2,4-Trimethylbenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
1,3,5-Trimethylbenzene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
Vinyl chloride	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
o-Xylene	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
MD DW LabID 153

Project: RF-096

Project Number: 05-056-RF96
Project Manager: Jeffery Stein

Reported:
05/15/20 10:35

PW-3

0051210-04 (Drinking Water)
Sample Date: 05/12/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 524.2 (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
m- & p-Xylenes	ND		ug/L	0.50	0.50	1	05/13/20	05/13/20 15:38	GM
Surrogate: 4-Bromofluorobenzene			*80-120*	*101 %*		*05/13/20*		*05/13/20 15:38*	
Surrogate: 1,2-Dichlorobenzene-d4			*80-120*	*104 %*		*05/13/20*		*05/13/20 15:38*	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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MD DW LabID 153

Project: RF-096

Project Number: 05-056-RF96
Project Manager: Jeffery Stein

Reported:
05/15/20 10:35

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
%-Solids	Percent Solids is a supportive test and as such does not require accreditation

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

CHAIN-OF-CUSTODY RECORD

Maryland Spectral Services, Inc.
1500 Caton Center Drive, Suite G
Baltimore, MD 21227
410–247–7600 • Fax 410–247–7602
labman@mdspectral.com

Matrix Codes: NW (nonpotable water)
PW (potable water)

Company Name:	Project Manager:
AEC	J. Stein
Project Name:	**Project ID:**
RF-096	05-056-096
Sampler(s):	**P.O. Number:**
B. Taetzsch	05-056-096

Analysis Requested: VOC 524.2

Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	Preservative: 1+1 HCL, H_2SO_4, Methanol, $Na_2S_2O_3$, $NaHCO_3$	Field pH, Residual Chlorine, QC Request, Trip Blank, Field Blank	MSS Lab ID
PW-1			X			2			0051210-01
PW-2a			↓			↓			-02
PW-2b			↓			↓			-03
PW-3			↓			↓			-04

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	5/12/20 16:25				
(Printed) Brian Taetzsch		(Printed)	(Printed)		(Printed)
Relinquished by: (Signature)	Date/Time	Received by Lab: (Signature)			
	5/12/20 16:25	[signature]			
(Printed)		(Printed) Rachel Horner			

Turn Around Time:
- ☑ Normal (7 day)
- ☐ 5 day
- ☐ 4 day
- ☐ 3 day
- ☐ Rush (2 day)
- ☐ Next Day
- ☐ Other: _____
- ☐ Specific Due Date: _____

Lab Use:
Temp: 13.0 °C
- ☑ Received on Ice
- ☑ Received same day
- ☐ Preservation Appropriate

Delivery Method:
- ☐ Courier
- ☑ Client
- ☐ UPS
- ☐ FedEx
- ☐ USPS
- ☐ Other: _____

Special Instructions/QC Requirements & Comments:
results to: jstein
jsheidy
sdessel
btaetzsch

Sample Disposal:
- ☐ Return to Client
- ☐ Disposal by lab
- ☐ Archive for _____ days

MSS-F001-03/13

Attachment E

Maryland
Department of the Environment

Water Sampler Certification

ANDREW CLARK sampler id **0883AC**
HAS BEEN APPROVED FOR COLLECTION OF DRINKING WATER SAMPLES REQUIRED UNDER THE SAFE DRINKING WATER ACT

1909-10-201 — certification number
9/28/2019 — expiration date

Maryland
Department of the Environment

Water Sampler Certification

BRIAN TAETZSCH sampler id **6403BT**
HAS BEEN APPROVED FOR COLLECTION OF DRINKING WATER SAMPLES REQUIRED UNDER THE SAFE DRINKING WATER ACT

2006-02-020 — certification number
6/26/2020 — expiration date

Maryland
Department of the Environment

Water Sampler Certification

Christopher Ortolani sampler id **2685CO**
HAS BEEN APPROVED FOR COLLECTION OF DRINKING WATER SAMPLES REQUIRED UNDER THE SAFE DRINKING WATER ACT

2008-17-702 — certification number
9/15/2020 — expiration date

Maryland
Department of the Environment

Water Sampler Certification

COLLEEN MCMULLEN sampler id **8929CM**
HAS BEEN APPROVED FOR COLLECTION OF DRINKING WATER SAMPLES REQUIRED UNDER THE SAFE DRINKING WATER ACT

2005-00-879 — certification number
6/6/2020 — expiration date

Maryland
Department of the Environment

Water Sampler Certification

RAY GUEVARA sampler id **0784RG**
HAS BEEN APPROVED FOR COLLECTION OF DRINKING WATER SAMPLES REQUIRED UNDER THE SAFE DRINKING WATER ACT

2211-13-335 — certification number
11/12/2022 — expiration date

Maryland
Department of the Environment

Water Sampler Certification

MATTHEW JOLLY sampler id **0609MJ**
HAS BEEN APPROVED FOR COLLECTION OF DRINKING WATER SAMPLES REQUIRED UNDER THE SAFE DRINKING WATER ACT

2209-06-119 — certification number
9/11/2022 — expiration date

Maryland
Department of the Environment

Water Sampler Certification

ROHAN MCLAUGHLIN sampler id **5315RM**
HAS BEEN APPROVED FOR COLLECTION OF DRINKING WATER SAMPLES REQUIRED UNDER THE SAFE DRINKING WATER ACT

2004-08-761 — certification number
4/4/2020 — expiration date

Maryland
Department of the Environment

Water Sampler Certification

SIDHARTH GANESAN sampler id **9188SG**
HAS BEEN APPROVED FOR COLLECTION OF DRINKING WATER SAMPLES REQUIRED UNDER THE SAFE DRINKING WATER ACT

2006-02-982 — certification number
6/26/2020 — expiration date

Maryland
Department of the Environment

Water Sampler Certification

STEPHEN DESSEL sampler id **0230SD**
HAS BEEN APPROVED FOR COLLECTION OF DRINKING WATER SAMPLES REQUIRED UNDER THE SAFE DRINKING WATER ACT

2205-00-850 — certification number
5/16/2022 — expiration date