



LIMITED SUBSURFACE INVESTIGATION REPORT

**University of Maryland Shore Medical Center
Formerly Chester River Hospital Center
100 Brown Street
Chestertown, Maryland 21620**

Apex Job No.: TOW029-0309010-22008272

September 23, 2022

Prepared for:

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1.0 INTRODUCTION & BACKGROUND

On behalf of the Town of Chestertown (Client), Apex Companies, LLC (Apex) is pleased to provide this Limited Subsurface Investigation (LSI) Report for environmental services completed at the Shore Medical Center (Hospital) located at 100 Brown Street in Chestertown, Maryland (hereinafter referred to as 'Site').

The Site, specifically the Hospital, consists of one (1) parcel of land (Parcel No. 1642, Map-0202, Grid-0009) comprising approximately 6.48 acres. The Site is currently developed as one (1) hospital center on the northern portion which totals approximately 90,056 square feet of above grade space. The remainder of the Site consists of paved parking lots and grass covered areas bordering the parking lots. Surrounding properties generally consist of residential properties to the north and south, additional medical buildings to the east and Washington College residential halls to the west. A Site location map is presented as **Figure 1**. A Site Map is included as **Figure 2**.

Around June 1987, the Hospital reported tank test failures associated with one (1) 1,000-gallon underground storage tank (UST) and one (1) 10,000-gallon UST, both containing #2 heating oil, to the Maryland Department of the Environment (MDE). On-site monitoring wells were installed at the Site in 1989 for investigation of groundwater conditions. The wells were sampled and revealed that groundwater had been impacted with total petroleum hydrocarbons (TPH), linked to the historic tank failures at the Hospital. The MDE Oil Control Program (OCP) assigned the Site Case No. 1987-2534-KE to the Site. In May 1991, the Hospital installed a groundwater remediation system for recovery of light non-aqueous phase liquids (LNAPL), often referred to as "free product", from the subsurface to mitigate the on-site petroleum plume. Between 1991 and 1999, various wells were replaced and upgrades to the system were completed. An approximate total of 83,428 gallons of LNAPL had been recovered by March 2012. Various remediation efforts and activities continued through April 2021, when MDE approved of system shutdown in the "Pilot Pumping System Shutdown Approval", dated April 1, 2022. Apex understands the system was deactivated shortly thereafter, and the Hospital's environmental consultant (Gannett Fleming) then implemented the post-remedial monitoring set forth in the approved Work Plan. Additional MDE OCP documents related to Case No. 1987-2534-KE can be accessed through MDE's webpage: <https://mde.maryland.gov/programs/land/oilcontrol/pages/remediationsites.aspx>.

Apex prepared a Proposed Work Plan for LSI, dated October 7, 2021, on behalf of the Client for proposed Site investigations. Upon review and approval, Apex implemented the Work Plan activities at the Site. The Work Plan is included as **Attachment 1**. The LSI included the completion of eight (8) high-resolution optical image profiler (OIP) borings, eight (8) soil borings, installation of eight (8) temporary monitoring wells, and the collection of soil and groundwater samples at the Site to evaluate current subsurface conditions. The LSI findings are presented below.

2.0 SUBSURFACE INVESTIGATION ACTIVITIES

2.1 High-Resolution Site Characterization

Prior to initiating field activities, Apex contacted ‘Miss Utility’ to ensure that subsurface utility locations were identified and marked. The ‘Miss Utility’ system locates underground utilities in public spaces and on easements. Apex thus contracted with a private utility locator, Utility Locating Service, Inc., to identify subsurface utilities on private space in and around the proposed boring locations for this investigation. In addition, Apex subcontracted with A-Zone Environmental Services (A-Zone) for physical clearance of each boring location on August 8, 2022, utilizing soil vacuum excavation methods or “air-knifing” procedures to avoid potential conflicts with underground utilities.

On August 9, 2022, prior to soil boring and sampling activities, Apex and its Maryland-licensed driller A-Zone and subcontractor S₂C₂, mobilized to the Site with a track-mounted 7822 Geoprobe™, direct-push (DP) rig to conduct high-resolution site characterization (HRSC) investigative methods at eight (8) locations, coexistent with the planned soil boring locations. The selected OIP technology, developed by Geoprobe™, consisted of a DP fluorescence tool that can efficiently delineate LNAPL hydrocarbon fuels, such as fuels and heating oil, and provided additional hydrostratigraphic information of the soil column. The OIP-UV probe and relay system provided real-time information in the field during advancement by use of an UV LED and visible light camera. Multiple data sets were created during advancement of the OIP tool in the subsurface including electrical conductivity (EC) for inferences on soil types and qualitative grain size encountered, percent areal fluorescence to evaluate detection of LNAPL, estimated hydraulic conductivity (K) for evaluating hydrostratigraphy and UV light images of the existing formation and visible light images from selected depth.

A total of eight (8) HRSC OIP borings were completed on August 9-10, 2022. Pre-selected locations HRSC OIP borings were coupled with the soil boring locations and are presented in **Figure 3**. HRSC OIP boring depths ranged from 43 ft below grade surface (bgs) to a maximum of 62 ft bgs. The HRSC OIP boring logs are included as **Attachment 2**. HRSC OIP data from only two (2) of the eight (8) borings, identified as SB5-OHIP and SB6-OIHP, exhibited UV fluorescence in the formation matrix at approximate depths of 40.7 feet bgs and 43.2 ft bgs, respectively, which are indications of the presence of residual LNAPL at the soil /water interface. Of note, the evidence of residual petroleum impacts noted within the SB5 and SB6 borings are located within the former active remediation area (parking lot) directly due south of the Hospital. Residual soil petroleum contamination has been historically documented within these areas, most recently in the 2016 Subsurface Investigation Report completed by H&B Solution, LLC.

2.2 Soil Sampling & Analysis

On August 11-12, 2022, Apex continued LSI activities at the Site to evaluate soil and groundwater conditions using the track-mounted DP Geoprobe™ rig, operated by A-Zone to conduct soil borings and install temporary wells at pre-selected locations. A map showing the soil boring and temporary well locations is included as **Figure 3**.

Field samples were collected continuously from the surface to the terminus of the borings. At each soil boring location, SB1 through SB8, a 60-inch long, 2-inch outer diameter (OD) probe was advanced into the subsurface and every 5-foot thereafter. Apex's on-site geologist conducted field screening of retrieved soil cores for evidence of volatile organic compounds (VOCs) using a calibrated photoionization detector (PID), which is useful for detecting VOCs such as those typically associated with petroleum compounds. A log of each boring was maintained that included the sample number, depth interval, field screening results, soil description, and other pertinent information (such as moisture content, odor, and percent sample recovery). Apex's soil boring logs are provided as **Attachment 3**. The soil borings were advanced to depths of 35 ft bgs to a maximum of 50 feet bgs depending upon the water table at each location.

Soil samples from each soil boring macrocore were collected and retained for laboratory analysis. Two (2) soil samples from each boring were generally selected based on the highest recorded PID reading of the soil samples, soils exhibiting olfactory evidence of petroleum impacts or soils located above the groundwater table. Samples were transferred directly into pre-preserved laboratory-provided containers with Teflon-lined lids, labeled and stored on ice pending delivery to the laboratory. Soils not collected for sample analysis were stored on-site in 55-steel drums pending off-site disposal. The soil samples were submitted to Phase Separation Science, Inc. (Phase) of Baltimore, Maryland, under proper chain of custody (COC) procedures and analyzed for target compound list (TCL) VOCs, including naphthalene, using Environmental Protection Agency (EPA) Method 8260/5035 and TPH - gasoline and diesel range organics (GRO/DRO) using EPA Method 8015/5035.

2.3 Installation of Temporary Groundwater Wells

Following the completion of the soil borings, all eight (8) soil borings were converted into temporary wells, identified as TW1 through TW8. The wells were constructed with 1-inch PVC riser and generally 15 feet length of 1-inch diameter PVC slotted screen. The temporary well and historic monitoring well locations are shown in **Figure 4**. Management of the soil boring activities, sample logging, and temporary well installations were performed by Apex's on-site geologist.

Each temporary well was gauged to the nearest 0.01-foot using an oil/water interface probe, which is capable of measuring LNAPL thickness with an accuracy of 0.01 feet. LNAPL was not present in any of the temporary wells during each of the gauging events completed at the Site. Attachment 3 presents temporary well construction diagrams and well gauging data in each respective boring log.

2.4 Groundwater Sampling & Analysis Plan

After installation of the temporary well, a brief period of stabilization and gauging, Apex purged a minimum of three (3) well volumes to develop each well for representative groundwater conditions and communication with the surrounding formation aquifer. Purge water was containerized in 55-gallon DOT steel drums and stored on-site pending off-site disposal.

Prior to sampling groundwater for laboratory analysis, each temporary well network was allowed to stabilize for 24-hours and gauged. The well gauging data is presented in **Table 1**. Based on installation of temporary wells at the Site, Apex did not evaluate the gauging data for groundwater flow direction.

Apex collected a representative grab sample from each of the temporary wells between August 16 and 17, 2022. During low-flow purging using an air bladder pump, insufficient water volume and well recharge were observed to achieve continuous flow for monitoring. Apex personnel, thus, utilizing new polyethylene 0.75-inch bailers to extract groundwater from the temporary wells. Water quality parameters (pH, conductivity, temperature, dissolved oxygen and oxidation-reduction potential) were measured in the field utilizing a properly calibrated YSI multi-meter. A summary of the measurements of groundwater indicator field parameters of the temporary wells upon completion of purging are included as **Table 2**. Disposable equipment (e.g., bailer, gloves) were discarded after each well sampling. Sampling equipment (e.g., water level meter, YSI) were decontaminated between sampling locations using an Alconox wash, tap water rinse, distilled water rinse and air dry. Groundwater samples were transferred directly to pre-preserved laboratory-provided containers with Teflon-line lids, labeled and stored on ice pending delivery to the laboratory. Groundwater samples were submitted to Phase and analyzed for VOCs, including naphthalene, using EPA Method 8260 and TPH-GRO/DRO by EPA Method 8015, in accordance with the Work Plan.

Post-groundwater sample collection, Apex completed a final round of temporary well gauging on August 22, 2022. Temporary wells, TW1 through TW8, were properly abandoned by A-Zone. The 1-inch diameter PVC well materials were removed from the boreholes and a bentonite slurry

mixture was tremie piped from the terminus to surface grade. The borehole locations were patched with topsoil, as appropriate, after well abandonment.

3.0 RESULTS OF THE LIMITED SITE INVESTIGATION

The results of Apex's subsurface investigation are presented below.

3.1 Subsurface Conditions

Soil borings SB1 through SB8 completed during this investigation were advanced to depths ranging between 35 feet bgs and 50 feet bgs. The observed lithologies encountered from Apex's borings are documented on the soil boring logs included at Attachment 3. Based on the observations of the soil cores, the soils below the surface of the Site generally consisted of light reddish-brown sands and ironstone, grading to reddish-brown clayey sand at boring terminus. During advancement of the borings and based on soil core sample observations, groundwater was encountered between 27 and 42 feet bgs. Soil cores and purge water, i.e., investigative derived waste (IDW), were placed into two (2) properly labeled 55-gallon DOT steel drums and properly disposed off-site. The disposal manifests associated with the IDW is included as **Attachment 4**. Photo documentation of on-site LSI activities are presented as **Attachment 5**.

3.2 Field Screening Analysis

Headspace analyses of soil samples collected during installation of the soil borings were conducted using a PID, model MiniRae 3000 equipped with a 10.6 eV lamp calibrated to 100 parts per million (ppm) of isobutylene in air. This instrument has sufficient ionization energy to be capable of detecting VOC vapors for the compounds associated with petroleum hydrocarbons. PID headspace readings were collected from all macrocore soil samples in the eight (8) boring locations at depths ranging from 0 to 50 feet bgs. PID readings ranged from 0.0 ppm at various soil borings with no petroleum staining or odors (SB1, SB2, SB3, SB4, SB7, and SB8) to a maximum of 116 ppm in SB5 with a strong petroleum odor noted. The headspace monitoring data is presented on the soil boring logs provided in Attachment 3.

3.3 Soil Analytical Results

A total of 16 soil samples were collected from soil borings during LSI activities. All soil samples were analyzed for VOCs and TPH-GRO/DRO. Copies of laboratory analytical reports for soil samples are included as **Attachment 6**. Analytical results for the 16 soil samples are summarized

in **Table 3**. The detected concentrations were compared to the applicable MDE non-residential soil cleanup standards which are also included in Table 3.

3.3.1 VOCs

All soil samples were analyzed for VOCs. Various VOCs were detected above the reporting limit (RL) including 2-Butanone (MEK), acetone, isopropylbenzene and naphthalene. All detected VOC concentrations are below their respective MDE non-residential soil cleanup standards.

3.3.2 TPH-GRO and TPH-DRO

All soil samples were analyzed for TPH-GRO and TPH-DRO. A total of four (4) samples had detected TPH-GRO concentrations above the RL. Detected TPH-GRO concentrations ranged from 0.1 milligrams per kilogram (mg/kg) in SB5-25' to a maximum of 31 mg/kg in SB6-39'. None of the detected TPH-GRO concentrations exceed its respective MDE non-residential soil cleanup standard.

A total of three (3) samples had detected TPH-DRO concentrations above the RL. Detected TPH-DRO concentrations ranged from 77 mg/kg in SB6-44' to a maximum of 2,800 mg/kg in SB5-37'. Only the TPH-DRO concentration in SB5-37' exceeds its respective MDE non-residential soil cleanup standard.

3.4 Groundwater Analytical Results

Copies of groundwater samples laboratory analytical reports are included as **Attachment 7**. A total of eight (8) groundwater samples were collected from temporary wells at the Site. Detected analytical results of the groundwater samples are presented in **Table 4**. Analytical results are compared to the MDE groundwater cleanup standards for type I/II aquifers for which are also included in Table 4.

3.4.1 VOCs

All groundwater samples were analyzed for VOCs. Various VOCs were detected above the RL including acetone, isopropylbenzene and naphthalene. Naphthalene concentrations in TW5 and TW6 exceed its respective MDE groundwater cleanup standard of 0.17 micrograms per liter ($\mu\text{g/L}$). None of the other detected VOC concentrations exceed their respective MDE groundwater cleanup standards.

3.4.2 TPH-GRO and TPH-DRO

All groundwater samples were analyzed for TPH-GRO and TPH-DRO. TPH-DRO was non-detect (ND) at or above the RL in all temporary wells except for TW5 and TW6, which had detected TPH-DRO concentrations of 1.5 milligrams per liter (mg/L) and 0.45 mg/L, respectively. Both TPH-DRO concentrations in TW5 and TW6 exceed its respective MDE groundwater cleanup standard of 0.047 mg/L. All TPH-GRO concentrations were ND at or above the RL in each of the temporary wells.

4.0 SUMMARY AND CONCLUSIONS

Apex completed its Limited Subsurface Investigation at the University of Maryland Shore Medical Center, formerly Chester River Hospital Center, located at 100 Brown Street in Chestertown, Maryland in accordance with the approved proposal dated June 13, 2022. On-site activities were completed from August 8 through August 22, 2022, which included the completion of eight (8) HRSC OIP borings, eight (8) soil borings, installation of eight (8) temporary wells and collection of soil and groundwater samples. The following conclusions are made based on the laboratory analytical results for soil and groundwater samples collected during the LSI. All sample results were compared to the applicable MDE non-residential soil and groundwater cleanup standards. Apex's summary and conclusions are summarized below:

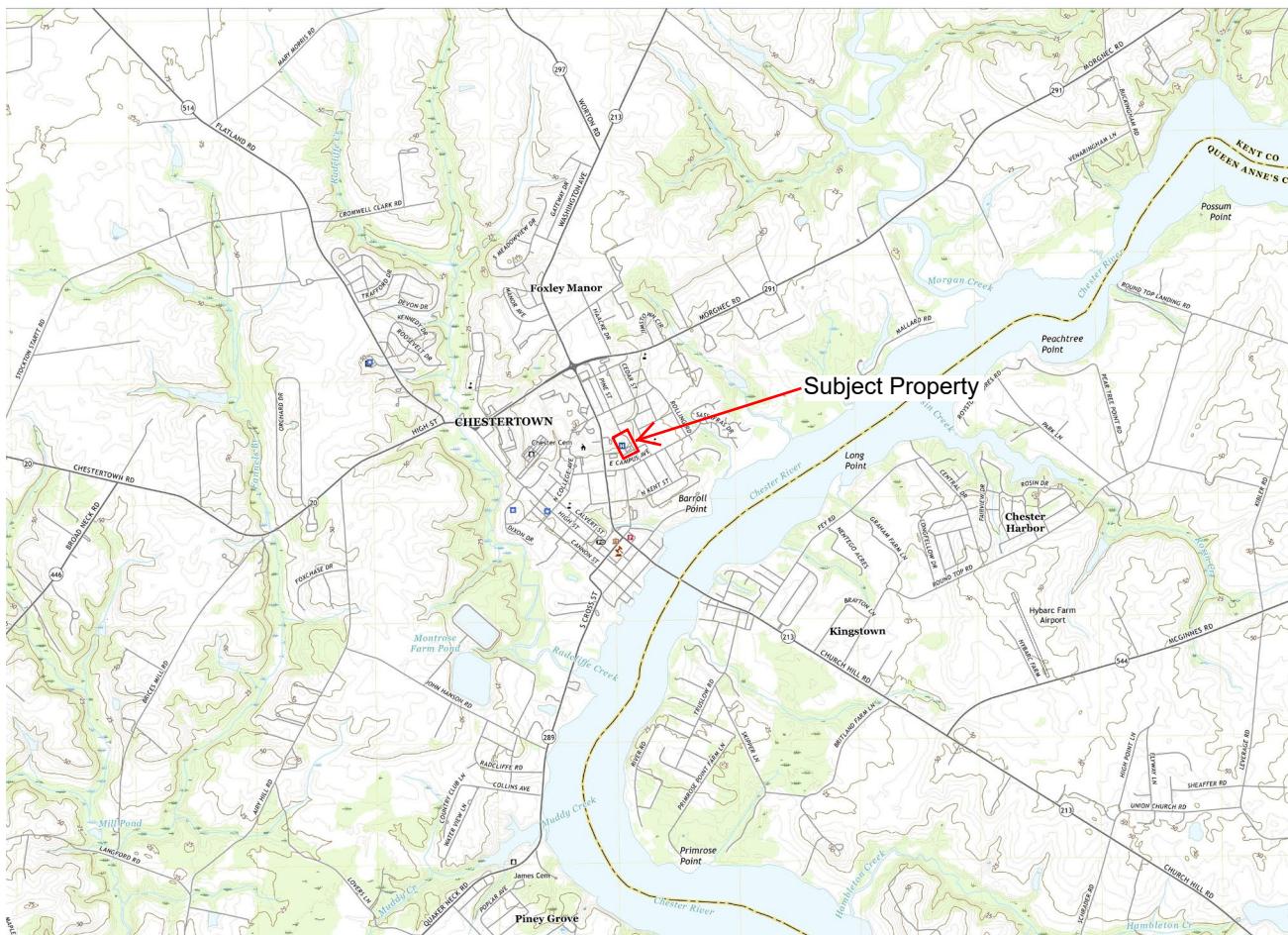
- HRSC OIP data from only two (2) of the eight (8) borings, identified as SB5-OHIP and SB6-OIHP, exhibited UV fluorescence in the formation matrix at approximate depths of 40.7 feet below grade surface (bgs) and 43.2 ft bgs, respectively, which are indications of the presence of residual LNAPL at the soil /water interface.
- A total of 16 soil samples were collected from eight (8) LSI soil borings and analyzed for VOCs and TPH-GRO/DRO.
 - All VOC concentrations are below their respective MDE non-residential soil cleanup standards.
 - All TPH-DRO and TPH-GRO concentrations were below their respective MDE non-residential soil cleanup standards except for the TPH-DRO concentration in SB5-37' (2,800 mg/kg), which exceed the MDE non-residential soil cleanup standard.
- A total of eight (8) groundwater samples were collected from eight (8) temporary wells and analyzed for VOCs and TPH-GRO/DRO.
 - All VOC concentrations are below their respective MDE groundwater cleanup standards for type I/II aquifers, except naphthalene concentrations in TW5 and TW6, which exceed its respective MDE groundwater cleanup standard.
 - All TPH-DRO and TPH-GRO concentrations were below their respective MDE groundwater cleanup standards for type I/II aquifers, except for TPH-DRO concentrations in TW5 (1.5 mg/L) and TW6 (0.45 mg/L), which exceed their respective MDE groundwater cleanup standards for type I/II aquifers.

Apex appreciates the opportunity to provide environmental consulting services to the Town of Chestertown. Should you have any questions regarding this LSI Report, please feel free to email cmentzer@apexcos.com or call at (202) 763-9779.

FIGURES AND TABLES

Figure 1
Site Location Map

University of Maryland Shore Medical Center
100 Brown Street
Chestertown, Maryland 21620



15850 Crabbs Branch Way
Suite 200
Rockville, MD 20855
Telephone: (301) 417-0200

Legend

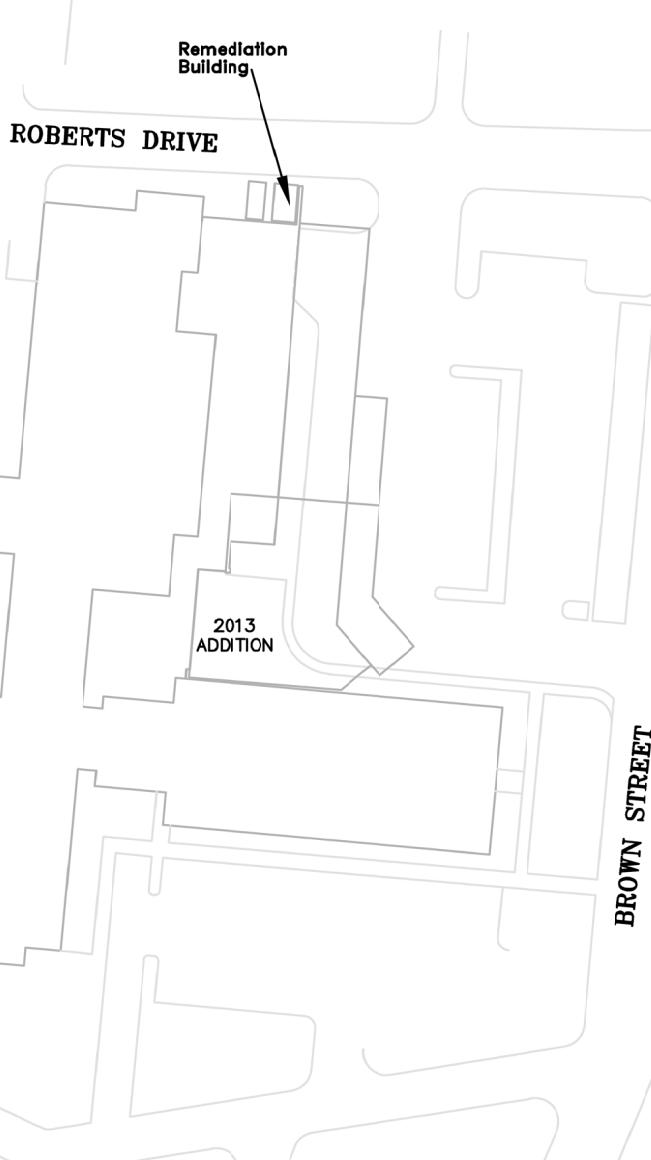
— Subject Property

Project: Limited Subsurface Investigation

Client: Town of Chestertown

Apex Job #: TOW029-0309010-22008272



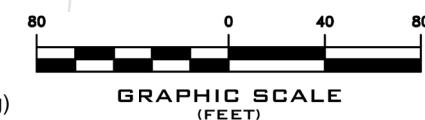


RIVERSIDE STREET

BROWN STREET

CAMPUS AVENUE

BYFORD DR



*Base map sourced from the Site Plan included in the 2021 4th Quarterly Monitoring Report (Gannett Fleming)

CHK BY	MF
DWN BY	MJO
DATE	8-31-22
SCALE	AS SHOWN
CAD NO.	FIG-2
PRJ NO.	TOW029-0309010-22008272

Site Map
CHESTER RIVER HOSPITAL CENTER
100 BROWN STREET
CHESTERTOWN, MARYLAND

APEX

2

SB8/TW8

Remediation
Building

ROBERTS DRIVE

SB7/TW7



SB6/TW6

SB5/TW5

RIVERSIDE STREET

SB4/TW4

SB3/TW3

SB1/TW1

CAMPUS AVENUE

2013
ADDITION

BROWN STREET

SB2/TW2

BYFORD DR



*Base map sourced from the Site Plan included in the
2021 4th Quarterly Monitoring Report (Gannett Fleming)

LEGEND

● SOIL BORING AND TEMPORARY WELL LOCATION

CHK BY	MF
DWN BY	MJO
DATE	8-31-22
SCALE	AS SHOWN
CAD NO.	FIG-3
PRJ NO.	TOW029-0309010-22008272

LIMITED SUBSURFACE INVESTIGATION
SOIL BORING AND TEMPORARY WELL LOCATION MAP
CHESTER RIVER HOSPITAL CENTER
100 BROWN STREET
CHESTERTOWN, MARYLAND



FIGURE

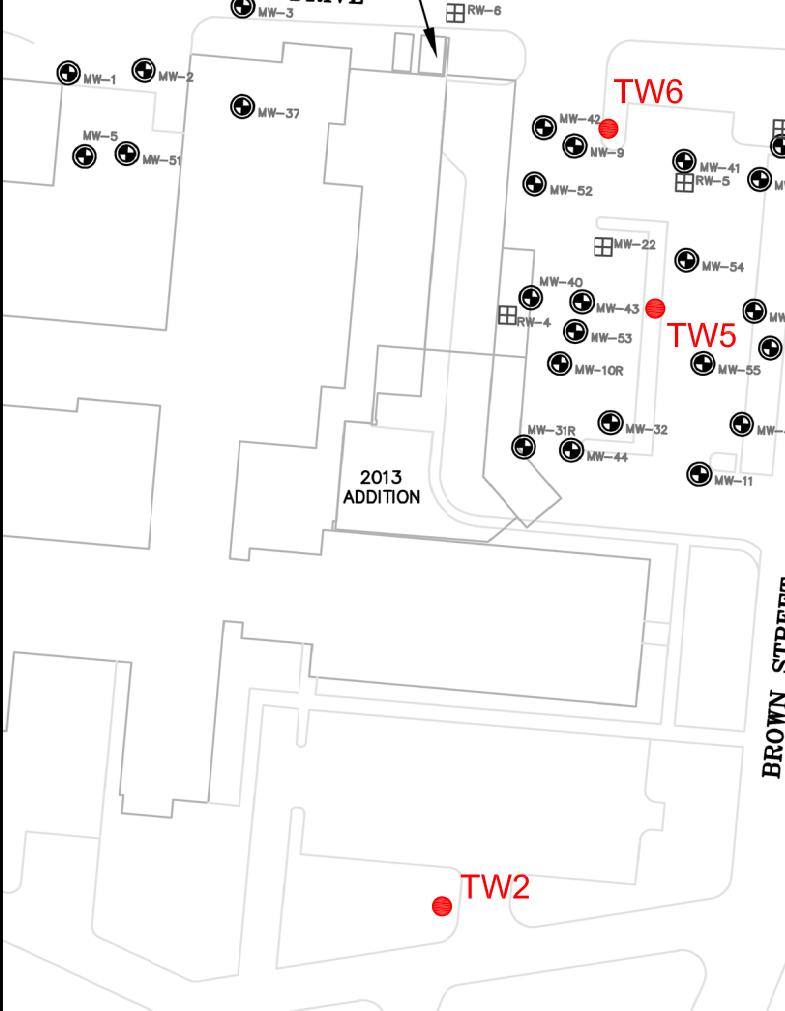
3

TW8

TW7

Remediation Building

ROBERTS DRIVE



TW6

TW4

TW5

BROWN STREET

RIVERSIDE STREET



TW3

TW1

CAMPUS AVENUE

BYFORD DR

GRAPHIC SCALE (FEET)

LEGEND

- TW2** ● APEX TEMPORARY WELL LOCATION
- MW-40** ● MONITORING WELL LOCATION
- RW-3B** ■ RECOVERY WELL LOCATION

CHK BY	MF
DWN BY	MJO
DATE	8-31-22
SCALE	AS SHOWN
CAD NO.	FIG-4
PRJ NO.	TOW029-0309010-22008272

*Base map sourced from the Site Plan included in the
2021 4th Quarterly Monitoring Report (Gannett Fleming)

APEX TEMPORARY WELL AND
HISTORICAL MONITORING WELL LOCATION MAP
CHESTER RIVER HOSPITAL CENTER
100 BROWN STREET
CHESTERTOWN, MARYLAND



FIGURE

4

Table 1
Well Construction & Gauging Data
Limited Subsurface Investigation
Shore Medical Center, 100 Brown Street, Chestertown, MD 21620

Monitoring Well ID No. ¹	Depth to Bottom of Well (feet bgs)	PVC Screen Interval (feet bgs)	Date	Depth to Water (feet TOC)
TW-1	35	10 - 30	8/11/2022	27.05
			8/12/2022	27.17
			8/15/2022	27.11
			8/16/2022	27.11
			8/17/2022	27.14
			8/22/2022	27.14
TW-2	44	29-44	8/11/2022	34.85
			8/12/2022	34.55
			8/15/2022	34.61
			8/16/2022	34.57
			8/17/2022	34.55
			8/22/2022	34.59
TW-3	35	20-35	8/12/2022	27.40
			8/15/2022	27.49
			8/16/2022	27.50
			8/17/2022	27.56
			8/22/2022	27.55
TW-4	35	20-35	8/12/2022	28.50
			8/14/2022	28.54
			8/15/2022	28.51
			8/17/2022	28.42
			8/22/2022	28.52
TW-5	42	27-42	8/12/2022	33.45
			8/15/2022	33.42
			8/16/2022	33.40
			8/17/2022	33.43
			8/22/2022	33.46
TW-6	45	30-45	8/12/2022	35.01
			8/15/2022	34.38
			8/16/2022	34.34
			8/17/2022	34.37
			8/22/2022	34.34
TW-7	45	30-45	8/11/2022	36.60
			8/12/2022	34.65
			8/15/2022	34.72
			8/16/2022	34.64
			8/17/2022	34.67
			8/22/2022	34.68
TW-8	45	30-45	8/11/2022	42.70
			8/12/2022	42.62
			8/15/2022	42.64
			8/16/2022	42.63
			8/17/2022	42.66
			8/22/2022	42.67

Notes: ¹ Temporary monitoring wells TW-1 through -8 were installed by Apex on August 11 and 12, 2022. Wells were constructed of 1-inch diameter schedule 40 PVC riser pipe and slotted screen. Temporary wells were abandoned by Apex on August 22, 2022; No Light Non-Aqueous Phase Liquids (LNAPL) was encountered during the well gauging events.

Table 2
Water Quality Parameters from Temporary Wells
Shore Medical Center
100 Brown Street
Chestertown, Maryland 21620

Well No.	Sample Date	pH	Specific Conductivity mS/cm	Temperature deg. C	Dissolved Oxygen mg/l	Oxidation Potential (Eh) eV
TW-1	8/16/2022	6.71	0.114	20.30	6.95	-80.3
TW-2		6.67	0.903	21.23	5.89	-49.7
TW-3		6.43	1.617	19.17	6.63	-79.0
TW-4	8/17/2022	6.12	0.317	21.05	3.84	-50.8
TW-5	8/17/2022	6.42	1.185	22.64	2.19	71.4
TW-6		6.48	0.989	20.02	1.19	38.2
TW-7	8/16/2022	6.47	0.325	18.40	5.16	7.7
TW-8	8/17/2022	6.35	0.284	24.58	2.93	-126.0

Units: mS/cm - Millisiemens per centimeter. C - degrees Celcius. mg/L - Milligram per liter. eV-Electronvolts. Above measurements of groundwater indicator field parameters were taken at completion of purging.

Table 3
Soil Laboratory Analytical Results - Detections Only
Limited Subsurface Investigation
Shore Medical Center, 100 Brown Street
Chestertown, Maryland 21620

Sample ID:			MDE Non-Residential Soil Cleanup Standards (10/2018)	SB1 34'	SB1 23'	SB2 32'	SB2 41'	SB3 31'	SB3 22'	SB4 28'	SB4 34'	SB5 25'	SB5 37'	SB6 39'	SB6 44'	SB7 40'	SB7 12'	SB8 39'	SB8 43'		
Sample Matrix:				Soil																	
Sample Date:				08/11/2022				08/12/2022							08/11/2022						
Analyte:	Units	Cas#		Volatile Organic Compounds (VOCs) by EPA Method 8260/5035																	
2-Butanone (MEK)	mg/kg	78-93-3	19,000	<0.0046	<0.0045	<0.0044	<0.0042	<0.0055	<0.0049	<0.0051	<0.0047	0.027	<0.51	<0.49	<0.0048	<0.0046	<0.0053	<0.0038	<0.0045		
Acetone		67-64-1	67,000	<0.018	<0.018	<0.018	<0.017	<0.022	<0.020	0.027	<0.019	0.19	<2.1	<2.0	<0.019	<0.018	0.16	<0.015	<0.018		
Isopropylbenzene		98-82-8	990	<0.00091	<0.00090	<0.00088	<0.00085	<0.0011	<0.00099	<0.0010	<0.00093	<0.00092	0.20	<0.098	<0.00097	<0.00092	<0.0011	<0.00077	<0.00090		
Naphthalene		91-20-3	17	<0.00091	<0.00090	<0.00088	<0.00085	<0.0011	<0.00099	<0.0010	<0.00093	<0.00092	<0.10	<0.098	0.0055	<0.00092	<0.0011	<0.00077	<0.00090		
			Total Petroleum Hydrocarbons - Gasoline & Diesel Range Organics (TPH-GRO/DRO) by EPA Method 8015/5035																		
TPH-GRO	mg/kg	C6-C10	620	<0.10	<0.10	<0.10	<0.096	<0.11	<0.10	<0.090	<0.086	0.10	5.3	31	0.95	<0.10	<0.099	<0.100	<0.10		
TPH-DRO		C10-C28		<3.9	<3.8	<3.8	<4.0	<4.0	<3.9	<3.9	<3.9	<3.9	2800	310	77	<4.0	<3.9	<3.7	<4.1		

Notes: Concentrations in mg/kg - milligrams per kilogram and compared to the Maryland Department of the Environment (MDE) Non-Residential Soil Cleanup Standards, last updated October 2018; Values shown as less than ('<') are Non-Detect at or below the laboratory reporting limit (RL); **BOLD** - Concentrations detected above the laboratory RL;

Highlighted value exceeds the respective MDE Non-Residential Soil Cleanup Standard;

Table 4
Groundwater Laboratory Analytical Results - Detections Only
Limited Subsurface Investigation
Shore Medical Center, 100 Brown Street
Chestertown, Maryland 21620

Sample ID:			MDE Groundwater Cleanup Standards for Type I/II Aquifers (10/2018)	TW-1	TW-2	TW-3	TW-4	TW-5	TW-6	TW-7	TW-8		
Sample Matrix:				Groundwater									
Sample Date:				08/16/2022			08/17/2022			08/16/2022	08/17/2022		
Analyte Name	Units	Cas#	Volatile Organic Compounds (VOCs) by EPA Method 8260										
Acetone	ug/L	67-64-1	1,400	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.1	10		
Isopropylbenzene		98-82-8	45	<1.0	<1.0	<1.0	<1.0	1.6	<1.0	<1.0	<1.0		
Naphthalene		91-20-3	0.17	<1.0	<1.0	<1.0	<1.0	9.8	3.9	<1.0	<1.0		
			Total Petroleum Hydrocarbons - Gasoline & Diesel Range Organics (TPH-GRO/DRO) by EPA Method 8015										
TPH-GRO	ug/L	C6-C10	47	<100	<100	<100	<100	<100	<100	<100	<100		
TPH-DRO	mg/L	C10-C28	0.047	<0.10	<0.10	<0.10	<0.10	1.5	0.45	<0.10	<0.10		
Notes: Concentrations in µg/L - micrograms per liter VOCs & GRO; mg/L - milligrams per liter for DRO. Results are compared to the Maryland Department of the Environment (MDE) Groundwater Cleanup Standards for Type I/II Aquifers, last updated October 2018; Values shown as less than ('<') are Non-Detect at or below the laboratory reporting limit (RL); BOLD Concentrations detected above the laboratory RL;													
				Highlighted value exceeds the respective MDE Groundwater Cleanup Standards									

ATTACHMENT 1

Proposed Work Plan for Limited Subsurface Investigation



October 7, 2021

Mr. Bob Sipes
Utilities Manager
Town of Chestertown
118 N. Cross Street
Chestertown, Maryland 21620

**Re: Proposed Work Plan for Limited Subsurface Investigation
Chester River Hospital Center
100 Brown Street
Chestertown, Maryland 21620
MDE Case No. 1987-2534-KE**

Dear Mr. Sipes:

Apex Companies, LLC (Apex) is pleased to submit this Environmental Work Plan (Plan) for post-remedial monitoring and limited subsurface investigation (LSI) associated with the historic release of heating oil from former underground storage tank (UST) located at the Chester River Hospital Center located at 100 Brown Street in Chestertown, Kent County, Maryland (herein referred to as "Site"). Based on available records the Site currently has an open Maryland Department of the Environment (MDE) Oil Control Program (OCP) identified as MDE OCP Case No. 1987-2534-KE.

This scope of work presented herein is based on Apex's review of previous environmental data reports by others and MDE OCP letters which were available online thru MDE's webpage: <https://mde.maryland.gov/programs/LAND/OilControl/Pages/remediationsites> under Kent County, Chestertown, Chester River Hospital Center (CRHC). .

The objectives of this Plan are to help characterize current site conditions, including potential residual source(s) of petroleum contamination from the historic release [e.g., whether there is evidence of liquid phase hydrocarbons (LPH) present in the impacted areas of the site], the potential risk to local receptors, and help identify areas where remediation and/or additional controls may be warranted. This Plan provides an outline of the proposed environmental investigation of various site media (soil and groundwater) to meet LSI objectives, general descriptions of sampling procedures and analytical methods to be used, a Site location map of approximate areas proposed for sampling, and other supporting information.

1.0 PROJECT PLANNING

The following project planning tasks are required for this project.

- A site-specific health and safety plan (HASP) for the subsurface investigation work will be prepared prior to mobilization and implemented during the field activities.
- A MD-licensed driller will be contracted to obtain necessary well permits from Kent County and the MDE.
- The Miss Utility system will be notified as required by law at least 72-hours in advance of drilling to locate and mark public utilities and review available CRHC site plans, if available, to help identify all subsurface utilities.
- Also, a private utility locating service will be contracted to locate and mark private underground utilities at the site.
- The field drilling program will be coordinated with the maintenance staff at CRHC, the RP's Technical staff and MDE, as needed in order to minimize impacts to traffic flow, pedestrian areas, and on-site parking and provide useful information.

2.0 FIELD METHODOLOGY

Overview of Soil Boring Plan

This Plan includes advancement of soil borings through a Maryland-licensed driller using a track-mounted hydraulic drill rig (e.g., Geoprobe® 7822) and direct push (DP) tooling to evaluate soil and groundwater conditions on the site and install temporary monitoring wells. Completion of approximately eight (8) to twelve (12) borings are anticipated to achieve investigation objectives. A soil boring will be advanced at each proposed boring/well location to an average depth of 60 feet below ground surface (bgs) to sufficiently intercept approximately 10 feet of the water table as further described below. The proposed locations of soil borings are depicted in general areas of interest which are depicted in the attached **Figure 1 Site Plan** of the Quarterly Report - Q1 2021 (Gannett Fleming).

High Resolution Site Characterization Tool

Prior to performing soil sampling, Apex recommends conducting high-resolution site characterization (HRSC) investigation methods in specific areas of the plume as shown in the Site Plan. The recommended HRSC tool is the OIP (Optical Image Profiler), developed by Geoprobe®, which is a DP fluorescence tool that can efficiently delineate non-aqueous phase liquid (NAPL) hydrocarbon fuels and oils, such as gasoline, diesel, etc., as well as provide additional hydrostratigraphic information of the soil column. The OIP-UV probe and relay system provides real-time information in the field during advancement by use of an UV LED and visible light camera. OIP Overview, probe schematics and log examples from Geoprobe are provided as **Attachment 1**. Multiple data sets created during advancement of the OIP tool in the subsurface include:

- Electrical conductivity (EC) for inferences on soil types and qualitative grain size encountered;
- Percent areal fluorescence to evaluate detection of NAPL;
- Estimated hydraulic conductivity (K) for evaluating hydrostratigraphy (coupled with EC);
- UV light images of the formation from selected depths (software filtered), and;
- Visible light images from selected depths.

Subsurface Soil Sampling and Laboratory Analysis

Following HRSC boring activities within the areas of interest and data collection/evaluation, soil zones will be targeted for sampling and laboratory analysis. Continuous soil core samples will be collected at each selected boring location using a discrete macro-core sample tooling, beginning approximately 10 feet above the smear zone and approximately ten feet (10') into the top of the saturated zone to the total depth for subsurface investigation (estimated at 60 feet bgs). Continuously-cored soil samples will be collected through a cased probe hole using a dual tube soil sampling system (DT22) to minimize cross contamination (refer to DT22 soil sample system product sheets in the **Attachment 2**).

The recovered soil core samples will be visually examined and described by a qualified experienced on-site geologist, and field screened using a calibrated photoionization detector (PID) to monitor for the presence of VOCs such as benzene and naphthalene which are contaminants associated with the former fuel release. Soil borings logs will be maintained in the field by the onsite geologist during field drilling operations that include sample numbers, depth interval, recovery, field screening results, soils observations and descriptions by USCS, and other pertinent information.

At each boring location, soils will be evaluated by collection of samples for laboratory analysis generally at the soil/groundwater interface and from the interval exhibiting the highest PID response. A total of twenty (20) soil samples are proposed for laboratory analysis. The soil samples will be submitted under proper chain of custody procedures to the contract laboratory and analyzed in accordance with previous MDE-approved project-specific laboratory analytical plans for target compound list VOCs including naphthalene by EPA Method 8260, and total petroleum hydrocarbons–diesel range organics (TPH-DRO) by EPA Method 8015. Samples collected for VOC analysis will be field preserved in accordance with EPA Method 5035 – distilled water and methanol preservation.

All non-dedicated drilling and soil sample tooling will be decontaminated after each location using alconox wash, tap water rinse and air dry. The soil cuttings generated from the DP drilling/ sampling will be contained in DOT steel drums, labeled and temporarily staged onsite pending laboratory analysis. The Consultant will subsequently make arrangements for the off-site transport under proper waste manifests and disposal of the waste (assumed to be non-hazardous) according to MDE regulations.

Temporary Monitoring Well Installation

Following completion of soil sampling at each location, the Consultant will direct its subcontracted driller to install a temporary groundwater monitoring well into the cased hole, as determined from OIP logs, field observations and screening of the corresponding soil cores, to evaluate for the potential presence of residual NAPL and dissolved-phase TPH-DRO contamination. These proposed well construction parameters are based on Apex's evaluation of recent water level measurements and elevations from the closest existing wells. Construction of the wells will be modified as needed from actual field conditions and water level observations during drilling activities. Deviations from the proposed well construction plans will be communicated to CRHC and MDE personnel for consensus.

The 2.5-inch outer diameter probe rods (casing) will be advanced the total depth. A one-inch (1") diameter temporary monitoring well will be installed in each hole and include: Schedule 40 flush-thread PVC well casing, fifteen feet (15') of schedule 40, machine slotted, flush-thread PVC well screen. Sand filter pack will be placed to approximately 3' above the top of the well screen. Bentonite slurry seal will be placed by tremie pipe method in the annular space from the top of the filter pack to three (3') feet above; alternately should hole conditions allow a bentonite chip seal will be installed in the annular space from the top of the filter pack and fully hydrated.

After installation, the small diameter wells will be developed by pumping and/or bailing to remove groundwater and sediment and to ensure good communication with the surrounding shallow aquifer. Extraction of groundwater will be conducted using either a bladder pump, wattera foot valves with poly tubing or other similar equipment (refer to pump product sheets in the **Attachment 3**). All non-dedicated groundwater pump equipment will be decontaminated after each location by the procedure noted above. Post groundwater sample collection, the temporary wells will be properly abandoned by a Maryland-licensed well driller in accordance with COMAR 26.04.04.34-36.

Well Gauging

At the conclusion of well installation activities, the wells will be gauged for the presence of NAPL (free phase oil) and static depth to water using an electronic interface probe to an accuracy of ± 0.01 foot. All well gauging measurements will be recorded in the field. If NAPL is detected during well gauging (or sampling), the Consultant will immediately notify CRHC Technical staff and its Consultant.

Groundwater Sampling and Analysis

Grab groundwater samples will be collected from the eight newly installed temporary monitoring wells. Standard operating procedures for low-flow well purging and sampling will be conducted low flow pumping equipment as referenced in product sheets of Attachment 2. Parameters (pH, dissolved oxygen, temperature, conductivity, turbidity, oxidation reduction potential) will be monitored for stabilization using a calibrated multi meter and flow thru cell and recorded in the field logbook. The water samples will be analyzed by the independent contract laboratory for VOCs including naphthalene by EPA Method 8260, and TPH- DRO by EPA Method 8015 on a 5-day turnaround time.

All non-dedicated groundwater sample equipment (e.g., pump, interface probe) will be decontaminated after each location using alconox wash, distilled water rinse and air dry to prevent sample cross-contamination.

Due to the potential presence of LPH in groundwater at the site, Investigation-Derived Waste (IDW), including soil cuttings, decontamination water, and purge water, will be containerized in DOT steel drums, labeled and temporarily staged nearby on-site pending analysis for disposal in accordance with applicable Maryland and federal laws and regulations. The Consultant will subsequently make arrangements for the off-site transport under proper waste manifest and disposal of the waste (assumed to be non-hazardous) according to MDE regulations.

3.0 PROJECT REPORTS

The Consultant will issue a final Subsurface Investigation Report that will document field activities, summarize all soil and groundwater field and laboratory analytical data, and conclusions, as appropriate no later than forty-five (45) days following the completion of all approved Work Plan activities. The report will include a scaled site plan exhibiting soil boring sample and monitoring well locations and associated sample results, copies of boring logs/ temporary well construction diagrams, well gauging data tables, any other aquifer test data, and copies of laboratory analytical reports, and waste disposal manifests.

4.0 PROJECT SCHEDULE

The Consultant will conduct a premobilization meeting with stakeholders, as needed, and on-site inspections to mark out boring locations using marking paint and conduct survey of utility lines for utility clearance measures prior to mobilization. Apex anticipates 10 business days to complete private utility markout, drill rig mobilization and the HRSC. Additionally, the field investigation activities, including soil boring, soil/groundwater sampling and temporary well abandonment, are anticipated to

require 10 business days to complete. Laboratory analysis is proposed for a standard 5-business day analytical turnaround time. The Consultant will provide a verbal summary of its findings upon completion of the fieldwork, and upon receipt of analytical results.

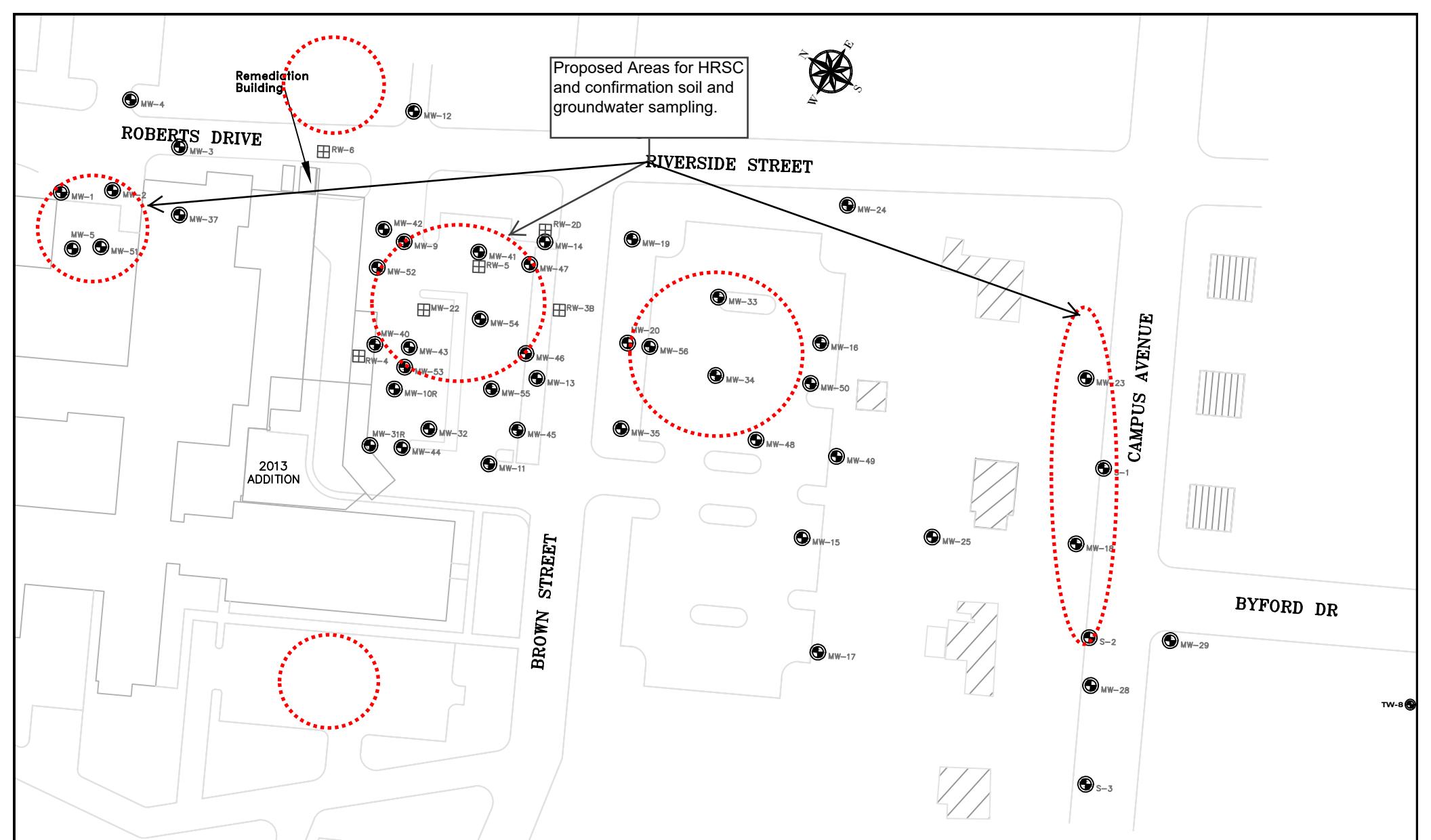
Please contact me if you have any questions or comments regarding the work plan approach at 301-417-0200 or email, charrison@apexcos.com.

Sincerely,
Apex Companies, LLC



Charles T. Harrison, PG
Senior Project Manager
Environmental Services

FIGURE 1



FIGURES EXCLUDES ABANDONED
RECOVERY AND MONITORING WELL
LOCATIONS. MONITORING WELL
MW-22 IS A RECOVERY WELL.

**CHESTER RIVER HOSPITAL
CENTER**
QUARTERLY REPORT - Q1 2021
CHESTERTOWN, MD

DESIGNED BY DHK
DRAWN BY JAO
CHECKED BY BRC

FIGURE 1
SITE PLAN

ATTACHMENT 1

Geoprobe® OIP Overview

Geoprobe®

OIP Optical Image Profiler

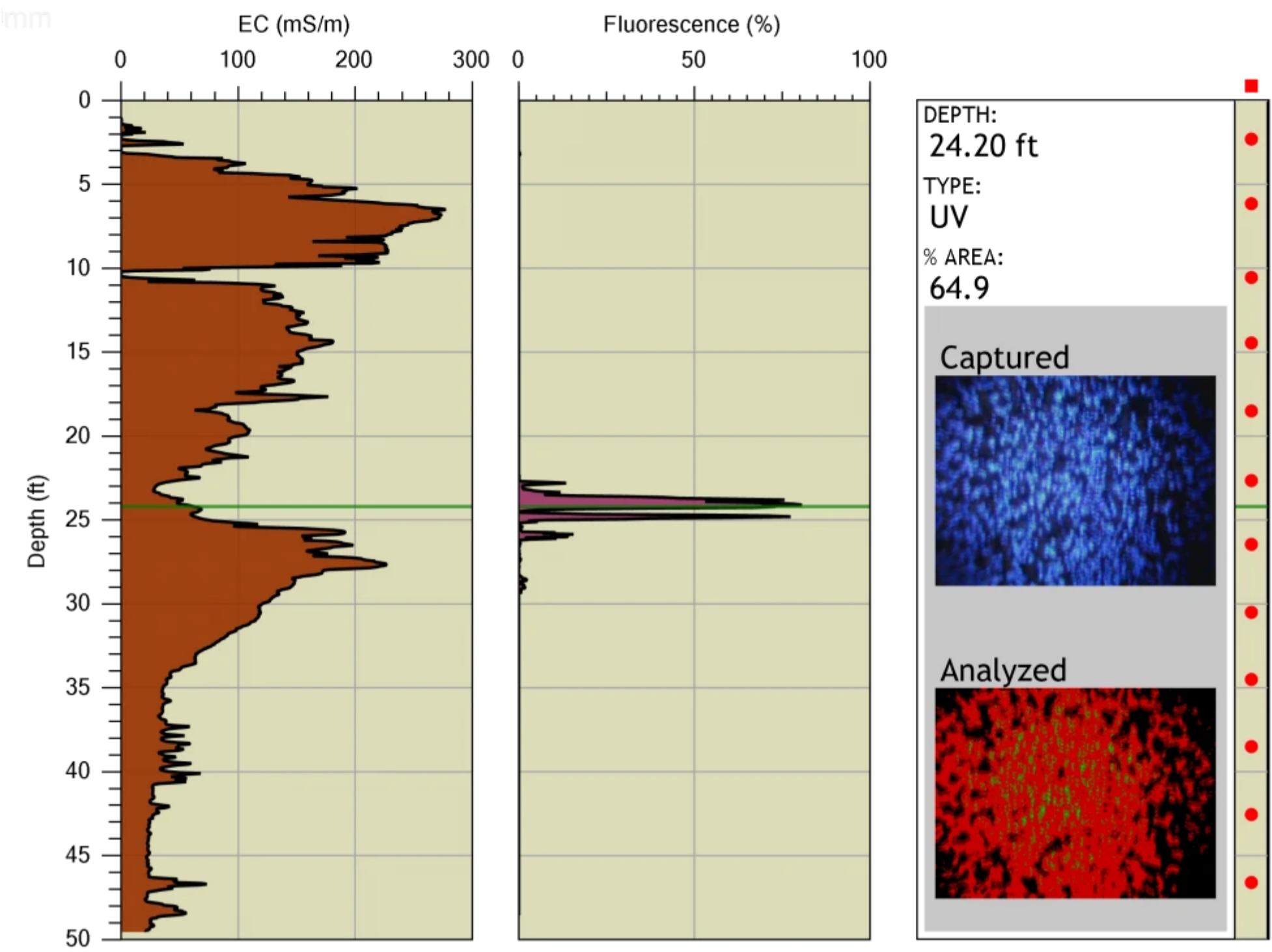
Log Relative Distribution of NAPL Level Fuels and Oils with Depth in Soil

The OIP (Optical Image Profiler) is a direct push fluorescence tool used for the delineation of non-aqueous phase liquid (NAPL) hydrocarbon fuels and oils. The OIP-UV probe is designed with UV and visible light sources which are directed out a sapphire window. As the probe is advanced into the subsurface, the UV light source will induce fluorescence of the fuel polycyclic aromatic hydrocarbons (PAHs). This fluorescence is captured by an onboard camera which operates at 30 images per second. Images are saved throughout the advancement of the log and still photos are taken using UV and visible light sources each rod addition as well as at operator chosen depths. Soil fluorescence images (20 per ft) are saved throughout the log and can be reviewed in Direct Image® Viewer after the log is complete. The OIP-G is available for heavier fuel or oil products.

OIP Overview

What is Geoprobe® Direct Image® OIP?

- The OIP system produces a detailed log of induced fuel fluorescence with depth.
- A downhole camera operates at 30 frames per second (fps) to capture fuel fluorescence.
- The acquisition software analyzes each image for typical fuel fluorescence color.
- The results are the percent of the image area (up to 100%) that displays fuel fluorescence.
- Fluorescence images are saved in the log every 0.05ft (15mm) for review at a later time.
- OIP is simple to learn and operate.
- OIP log Interpretation is intuitive, made simple by the saved images to compare to the log.
- The OIHPT-UV probe contains both 275nm UV and visible LEDs.
- The OIHPT-G probe contains both 520nm LD and infrared LEDs.
- Able to automatically and manually capture visible soil images.
- Collect OIP fluorescence, EC, and HPT data with an optional probe configuration that includes CPT data.



Typical OIP-UV Log: Graphs (left to right):soil electrical conductivity, fuel fluorescence, depth specific image of fluorescence

OIP is a logging tool that uses real time analysis of fluorescence images to map position and relative concentration of non-aqueous phase hydrocarbons. Images are saved (20 per foot) in the log for later review and confirmation.

Principles of Operation

The OIP-UV is a tool for mapping light non-aqueous phase liquids (LNAPL), residual LNAPL, and light oils. The OIP-UV system utilizes a 275nm ultraviolet (UV) light emitting diode (LED) to produce fluorescence from the polycyclic aromatic hydrocarbons (PAHs) contained in fuels and light oils. The UV light is directed out a sapphire window in the side of the probe (**Figure 1**) onto the soil. When LNAPL level fuels are present, the PAH molecules will absorb the UV light energy and shortly afterwards emit a light photon (fluorophore) which is the resultant fluorescence. Directly behind the sapphire window, the onboard camera captures images of the soil and any fluorescence produced by hydrocarbon contaminants present. The acquisition software analyzes each pixel of the images taken for the presence of color typical of fuel fluorescence. If there is no fuel present in the formation, or it is not in high enough concentration, then the returned camera image will appear black or dark under the UV light source. The OIP acquisition software logs percent area fluorescence with depth. The OIP-UV probe contains a visible as well as UV LEDs. The visible images are useful for determination of soil color, texture and occasionally confirming the presence of fuel or oil LNAPL globules.

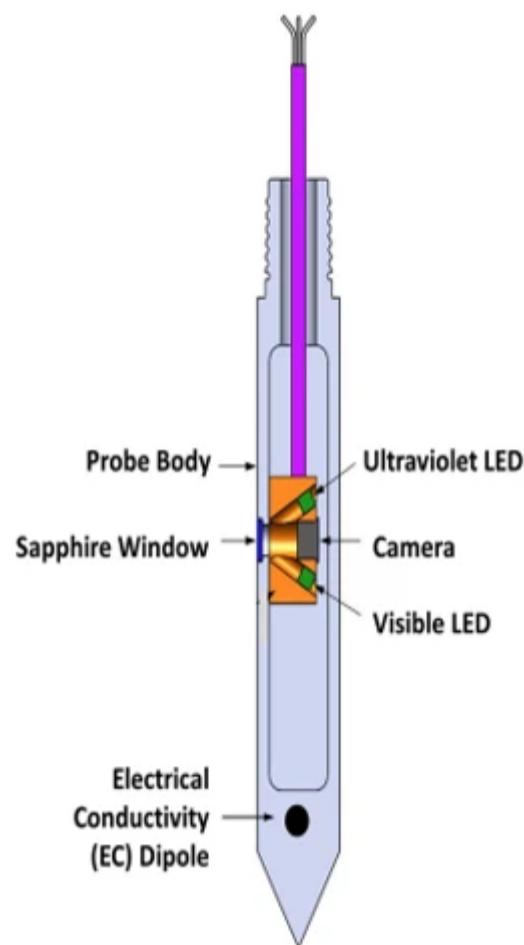


Figure 1: OIP-UV Probe Schematic

The camera within the OIP probe operates at 30 frames per second with the log % area fluorescence (%AF) value being an average of all the images taken over a 0.05ft (1.5cm) interval. As the log is reviewed in Direct Image® Viewer, the user can click on the log and a green line will show up across the log which corresponds to a specific depth. The image saved from that depth will display if the OIP Image Display graph is shown. In Figure 2 the depth of the displayed saved image is 24.20ft, it is a UV image with the actual image being displayed in the "captured" image section. The "analyzed" image indicates which pixels within the image display fluorescent color consistent with the color expected for fuel fluorescence. There are two colors that may show up in the analyzed image: **red** which corresponds to the darker blue colors of the image and **green** which corresponds to areas of high brightness either due to very low color saturation or high brightness of the image. This is used in an attempt to isolate out possible false mineral fluorescence. The overlaid image takes both the captured image and analyzed image and overlays them so the operator can identify areas that are being counted as fluorescence. Images are saved as the probe is moving for every 0.05ft. The red dots on the right side column of the image display graph are depths that "Still Images" were taken. This will contain both UV and visible light still images on the OIP-UV probe. The OIP-G fluorescence detector probe takes images using a 520nm green laser diode and an infrared LED.

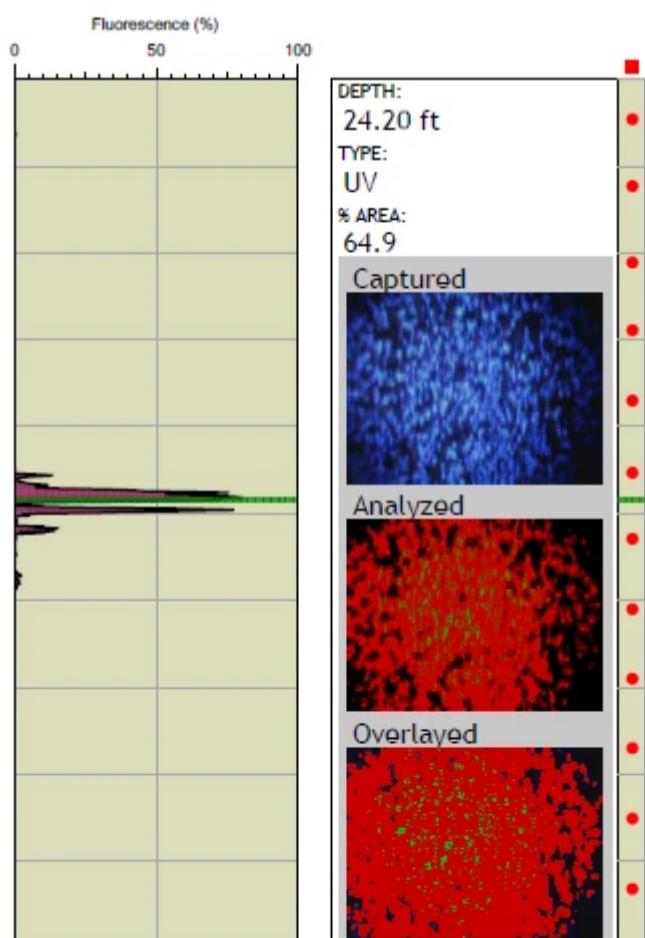


Figure 2: OIP Fluorescence Log with Depth Specific Image and Software Image Analysis

The OIP system software saves 20 images per foot (65 per meter), an example portion of the saved images that an OIP-UV log would contain is shown in **Figure 3**. These images are saved as the OIP-UV probe is advanced into the subsurface with a typical OIP log containing hundreds of images and being a few hundred mb in size depending upon terminal log depth and amount of color present in the images. Where there is no NAPL or residual NAPL present the images are black, where hydrocarbon NAPL is present blue fluorescence is seen within the images.

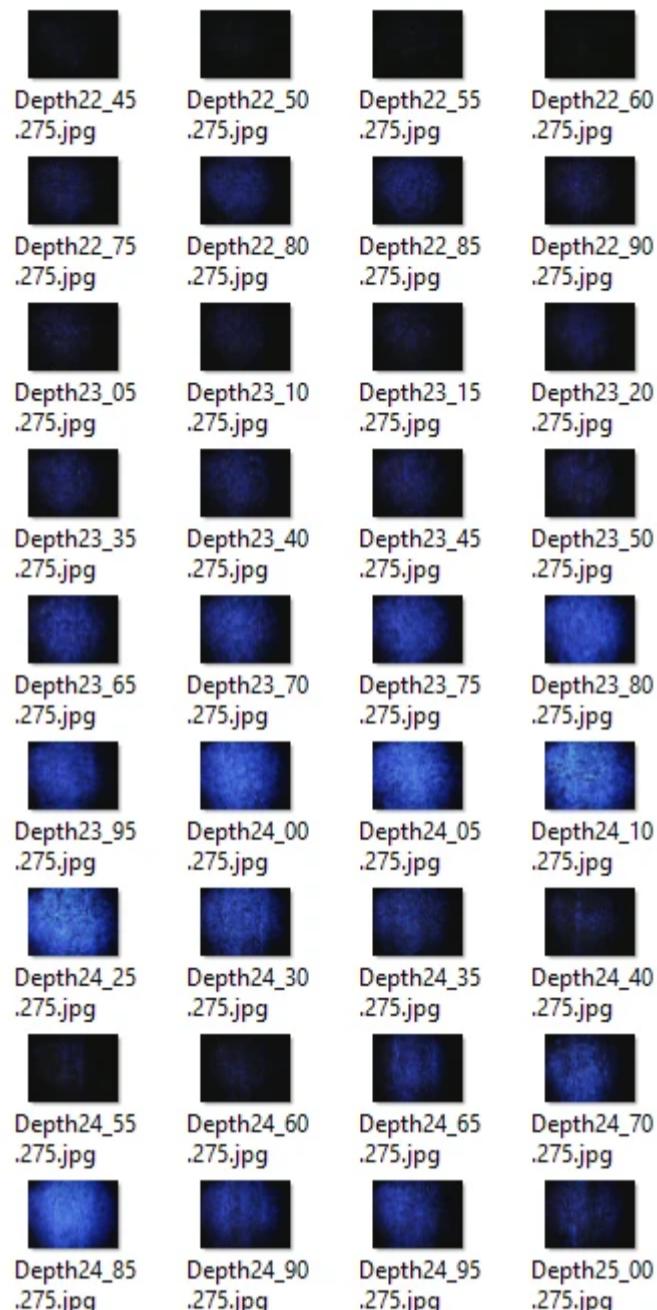


Figure 3: Saved images from an OIP-UV log

:

Example Logs

The OIHPT-UV Log in **Figure 4** displays the following graphs (left to right) electrical conductivity, HPT injection pressure, OIP % image area fluorescence, depth specific saved UV images, depth specific saved visible images, and estimate of hydraulic conductivity (K). The red dots to the right of the saved images indicate locations of still UV and visible images saved in the file.

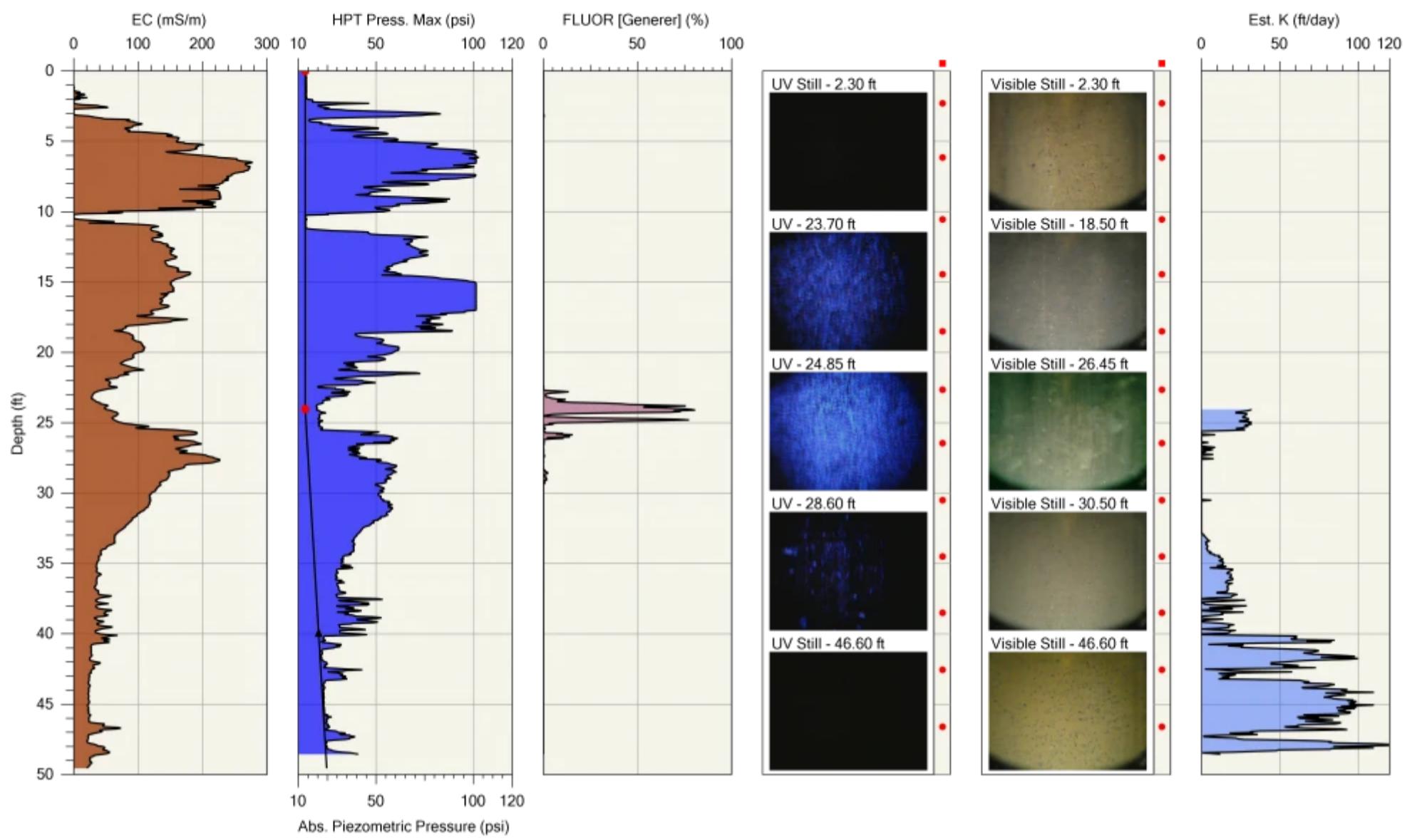


Figure 4: OIHPT-UV Log

The OIP-G log in Figure 5 was performed on a creosote site in Europe. The OIP-G probe, which induces fluorescence utilizing a 520nm green laser diode (LD), returns a fluorescence image in the orange-red color range as depicted in the analyzed image from 54.10ft in the right column of the log. The red dots are the saved still images which are taken with the 520nm green LD and an infrared (IR) LED.

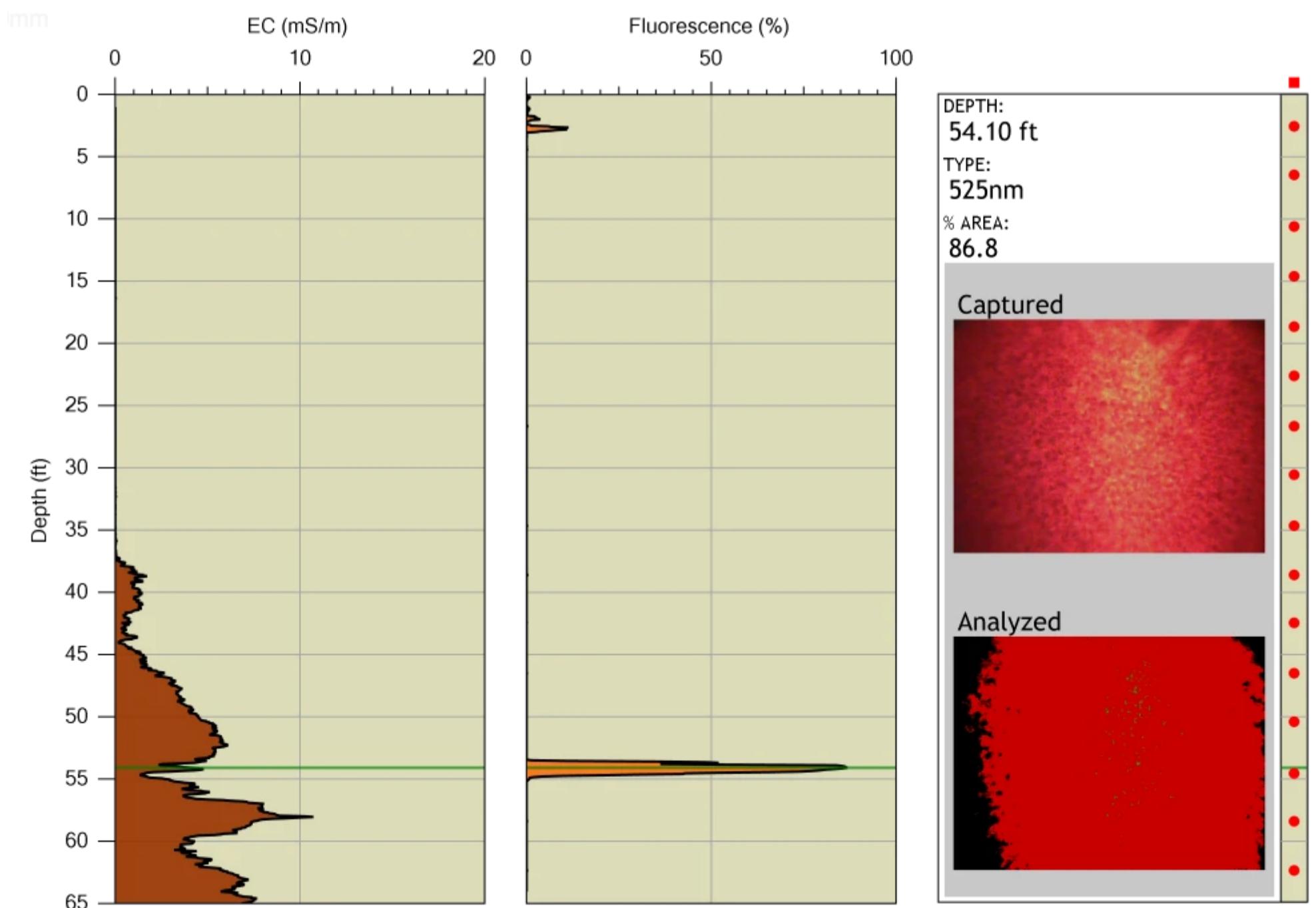
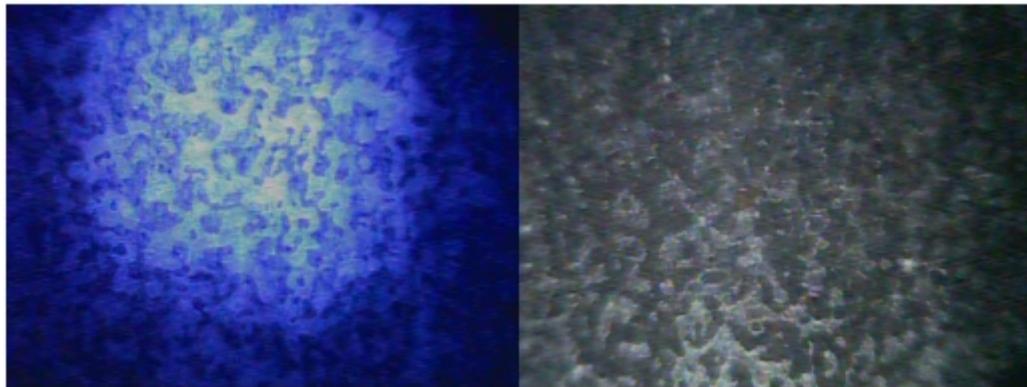


Figure 5: OIP-G Log

When the probe is stopped to add rods, still images will be captured with both available light sources in the OIP probe. Still images can be captured at any time an operator desires by stopping the probe advancement and selecting a button in the software. The process only takes a few seconds to complete and probe advancement can resume. These still images provide greater image clarity and an opportunity to look at the soil and fuel under visible light. Visible images provide the investigator an opportunity to observe soil color and texture in-situ. Occasionally when hydrocarbon NAPL is present in a saturated sand formation NAPL globules are evident in both the UV and visible images (Figure 6).



OIP-UV Image

Collocated Visible Image

Figure 6: Collocated UV and Visible Still Images

DI Viewer is a free program downloadable from the link below which allows the user to display any of the Direct Image® log types (MIP, OIP, HPT, EC). With this program the user can display the raw data .zip files of each saved graph of an individual log in single log view or compare them to other logs using the overlay and cross sectional view functions. Log specific QA data is also accessible with this software which also allows one to print or export the logs data for 3D modeling or into .jpg or .png files.

[> DI Viewer Download Page](#)

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ATTACHMENT 2

Geoprobe DT22 Soil Sample System Product Sheets
(Attached as a Separate File)

ATTACHMENT 3

Bladder Pump Product Sheets

Sampling Pumps

geotech

Geotech Portable Bladder Pumps

Geotech's portable bladder pumps are designed with input from field technicians who actually do the sampling! Single turn release head and quick change bladders allow for quick, in-the-field bladder changes and easy decontamination. Custom hose barbs allow the pump to be secured to tubing without the need for tubing clamps.

FEATURES

- **New 36" Pump**
Provides up to 30% greater flow
- **Constructed of 316 stainless steel**
For unsurpassed durability and truly representative samples
- **Portable turnkey systems available**
Everything you need to quickly and efficiently sample your site
- **Easy-to-open housings**
No special tools or training required to service the pump
- **Quick-change bladder configuration**
Bladders are easily changed without tools by sliding back the PTFE collars
- **Drop tube intake option**
Allows for deeper sampling
- **Extra bladders are readily available**
Available in PTFE and Polyethylene for all models
- **Bonded tubing**
In Polyethylene and FEP lined Polyethylene by the foot or by the roll
- **Compatible with the Geotech Geocontrol PRO & BP Controller units**
- **CE rated for quality**

SPECIFICATIONS

	1.66" x 36"	1.66" x 18"	.850"	.675"
Pump Housing	316 SS	316 SS	316 SS	316 SS
Pump Ends	316 SS	316 SS	316 SS	316 SS
Bladder Material	Virgin PTFE	Virgin PTFE	Virgin PTFE	Virgin PTFE
Outer Diameter	1.66" (40 mm)	1.66" (40 mm)	.850" (21.6 mm)	.675" (17 mm)
Length w/Screen	40" (101.6 cm)	19" (48.2 cm)	18 5/8" (47.3 cm)	18 1/4" (47.6 cm)
Weight	5.0 lbs. (2.27 kg)	3.0 lbs. (1.36 kg)	1.1 lbs. (.5 kg)	.83 lbs. (.376 kg)
Volume/Cycle	11 oz. (310 ml)	5 oz. (150 ml)	0.9 oz. (29 ml)	0.5 oz. (15 ml)
Min. Well I.D.	2" (5 cm)	2" (5 cm)	1" (2.5 cm)	.75" (1.9 cm)
Max. Operating Pressure	100 psi (6.9 bar)	100 psi (6.9 bar)	100 psi (6.9 bar)	100 psi (6.9 bar)
Min. Operating Pressure	5 psi (.3 bar) ash*	5 psi (.3 bar) ash*	5 psi (.3 bar) ash*	5 psi (.3 bar) ash*
Max. Sampling Depth	200' (61 m)	200' (61 m)	200' (61 m)	200' (61 m)
Tubing Size	Air ID x OD Discharge ID x OD	.17" x .25" (4 mm x 6 mm) .25" x .375" (6 mm x 10 mm)	.17" x .25" (4 mm x 6 mm) .25" x .375" (6 mm x 10 mm)	.17" x .25" (4 mm x 6 mm) .17" x .25" (4 mm x 6 mm)

*ash = above static head



CALL GEOTECH TODAY (800) 833-7958

Geotech Environmental Equipment, Inc.

2650 East 40th Avenue • Denver, Colorado 80205

(303) 320-4764 • (800) 833-7958 • FAX (303) 322-7242

email: sales@geotechenv.com website: www.geotechenv.com

Sampling Pumps

geotech

Geotech Portable Bladder Pump Optional Accessories

PORTABLE BLADDER PUMP DROP TUBE ASSEMBLY

Geotech's optional drop tube intake system allows you to easily relocate the bladder pump intake way beyond the depth limitations of the pump. As long as the pump remains submerged, you can effectively and economically low flow sample from the well's screened section.

- Relocate pump intake to deeper well screen interval
- Keeps pump at optimum depth to maximize performance
- Drop tube length custom sized to each well
- Easily adaptable in the field
- Available for all three pump sizes



PORTABLE BLADDER PUMP REEL

- Caddy stores pump when not in use
- Depth ranges to 175 feet (53 m)
- Quick-connect fittings at pump and reel



Portable Bladder Pump Reel System
(shown with 1.66 Pump)

BONDED TUBING



Bonded Polyethylene x Polyethylene

[.170" x .25", .170 x .25"]



[.170" x .25", .25" x .375"]



[.25" x .375", .25" x .375"]



[.25" x .375", .375" x .50"]



Bonded FEP Lined Polyethylene x Polyethylene

[.170" x .25", .170 x .25"]



[.170" x .25", .25" x .375"]



[.25" x .375", .25" x .375"]



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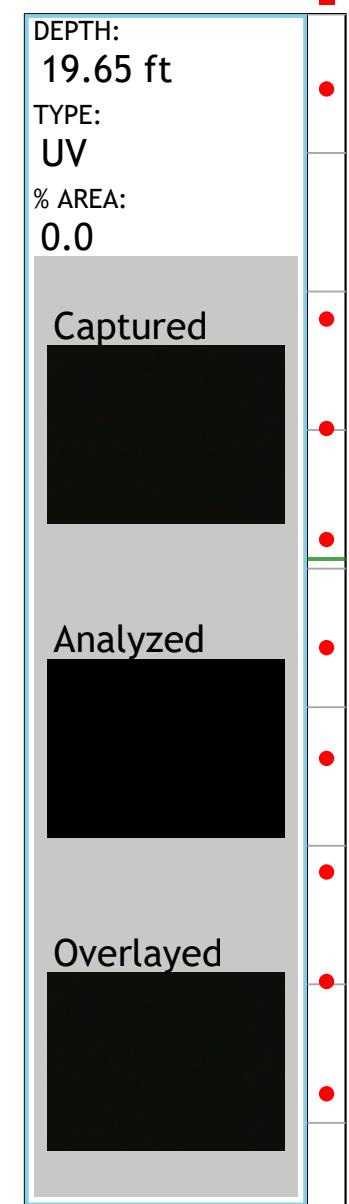
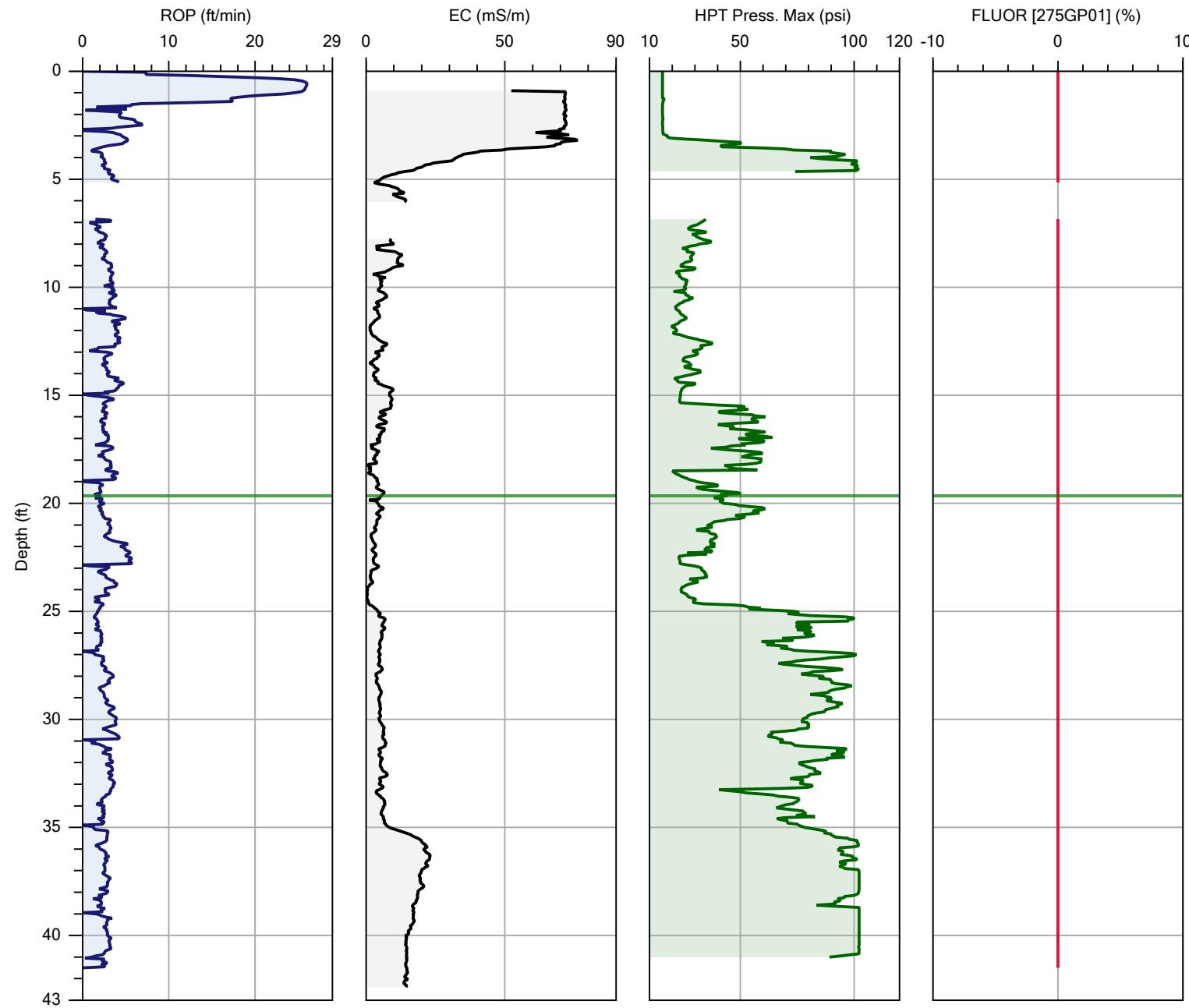
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ATTACHMENT 2

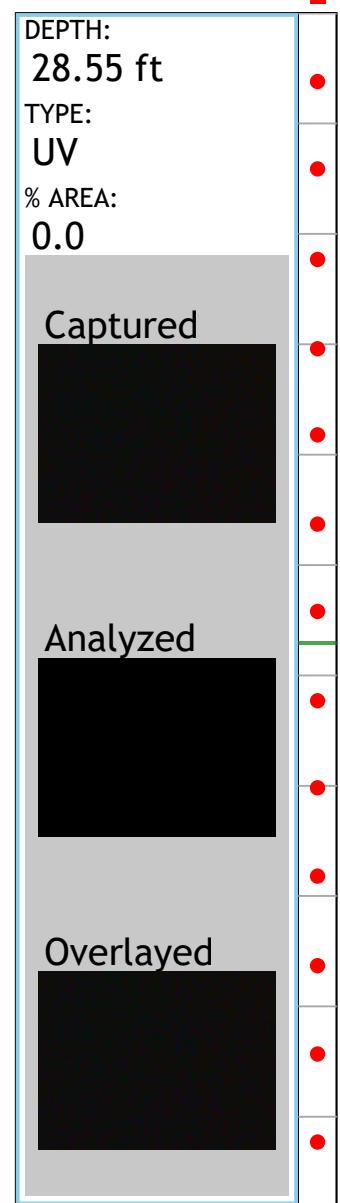
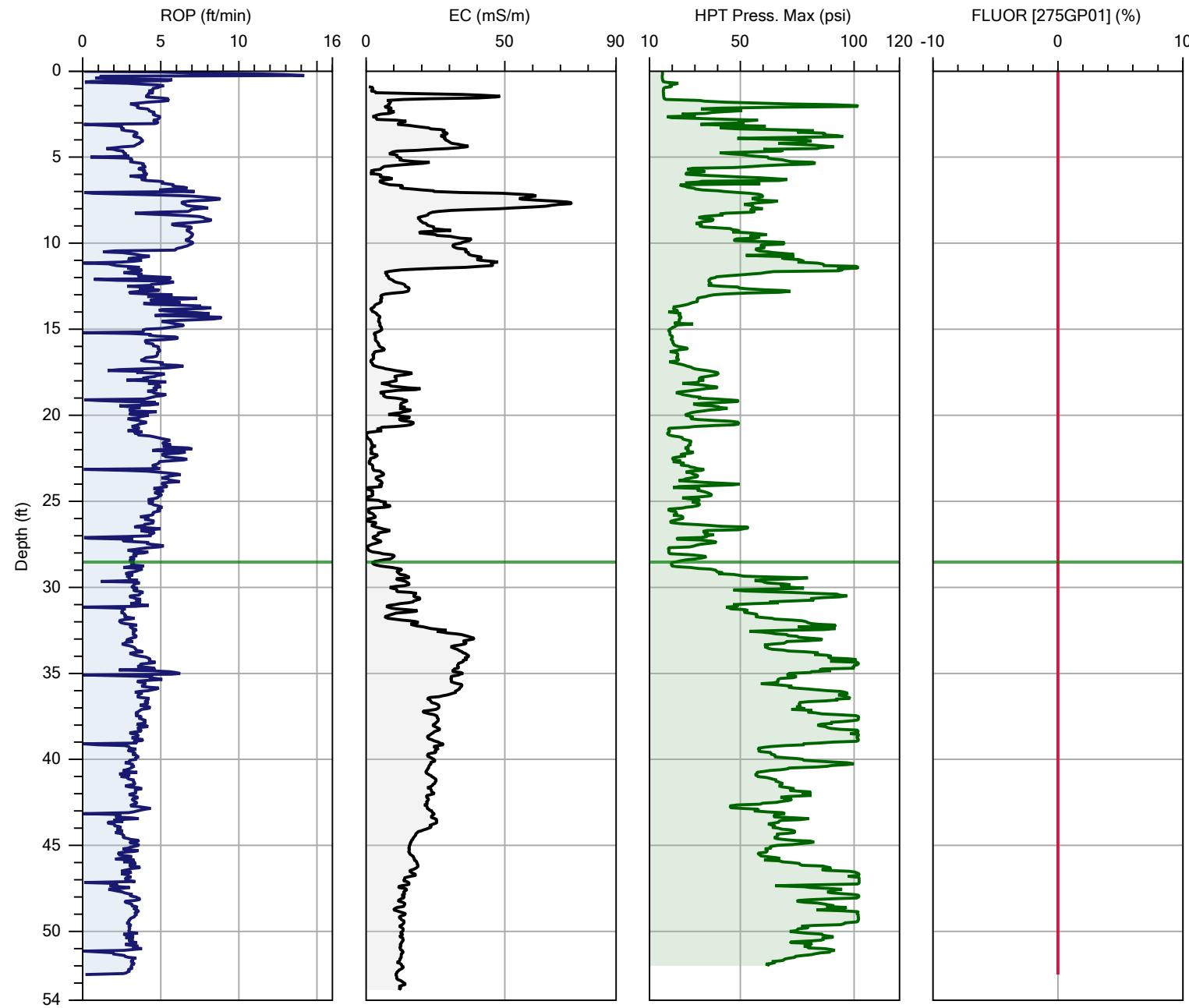
HRSC OIP Boring Logs



S₂ C₂

Company: S2C2	Operator: TK
Project ID: Shore Medical Center at Chestertown	Client: Apex Companies

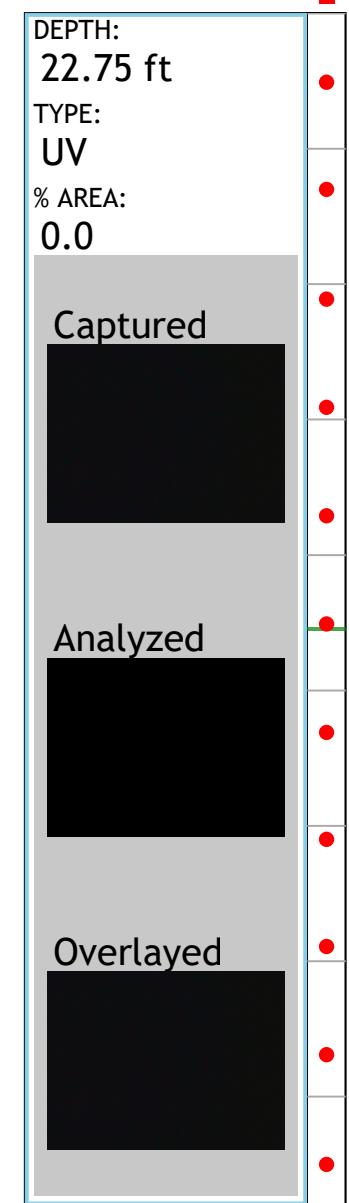
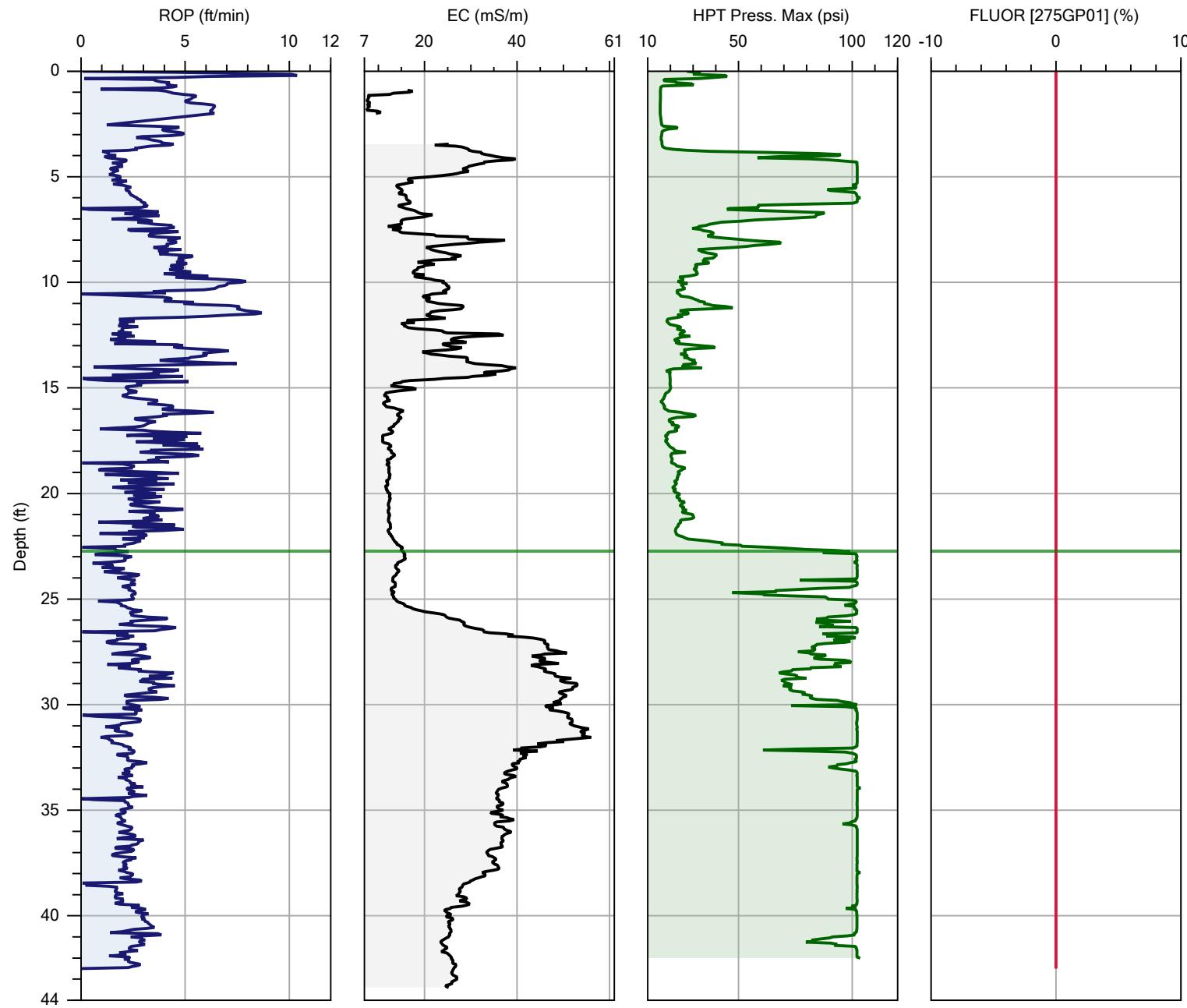
File: SB1M.OIHP	Date: 8/10/2022
Location: SB1	



S₂ C₂

Company:	S2C2	Operator:	TK
Project ID:	Shore Medical Center at Chestertown	Client:	Apex Companies

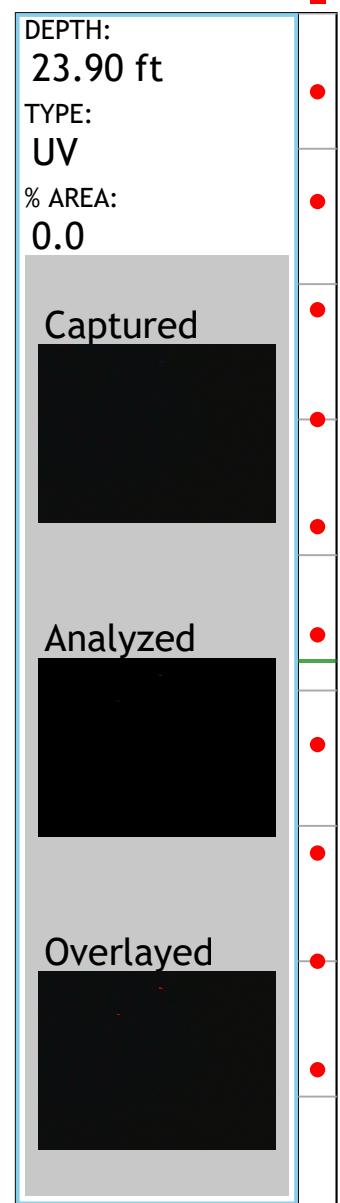
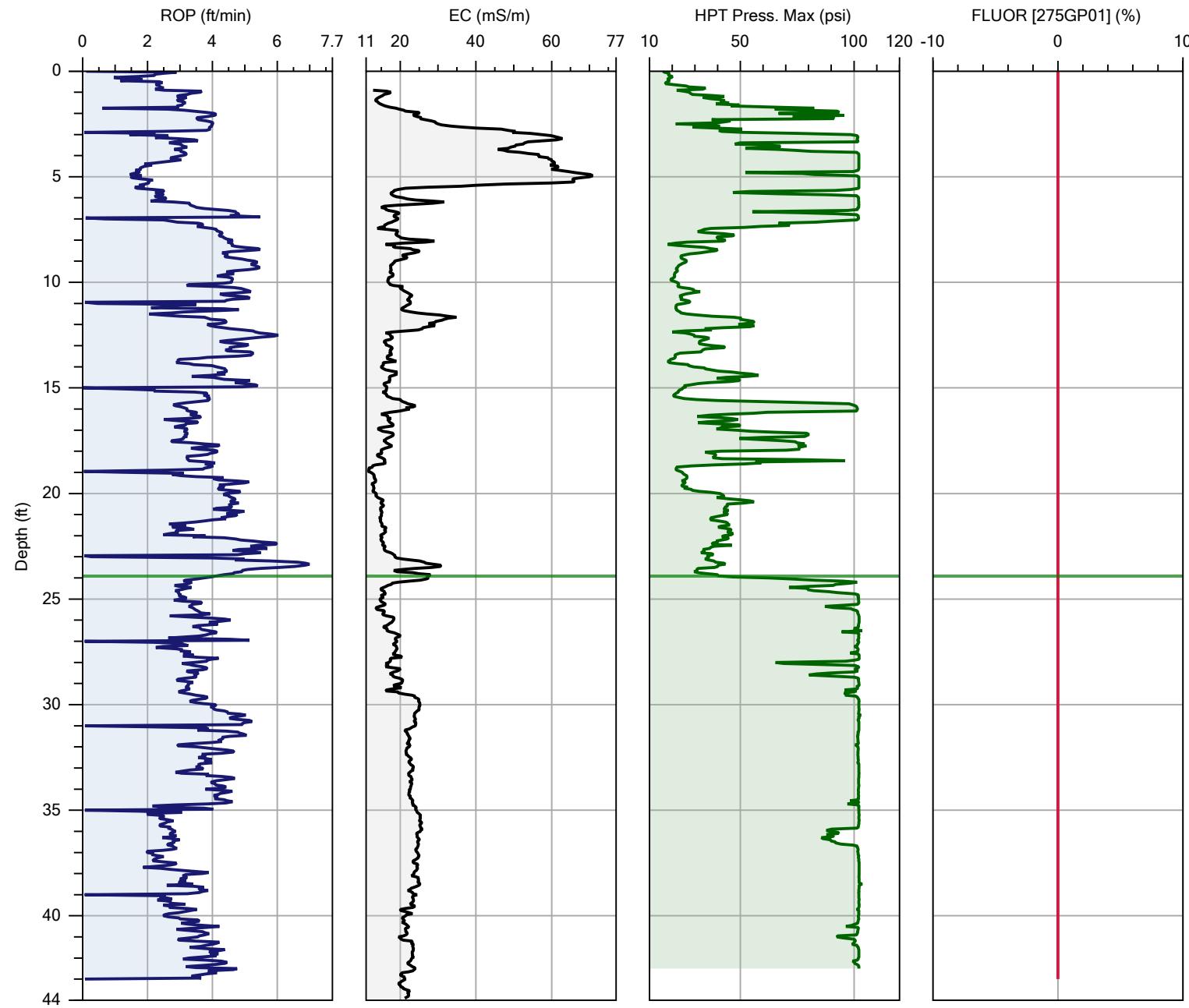
File:	SB2.OIHP
Date:	8/10/2022
Location:	SB2



S₂ C₂

Company:	S2C2	Operator:	TK
Project ID:	Shore Medical Center at Chestertown	Client:	Apex Companies

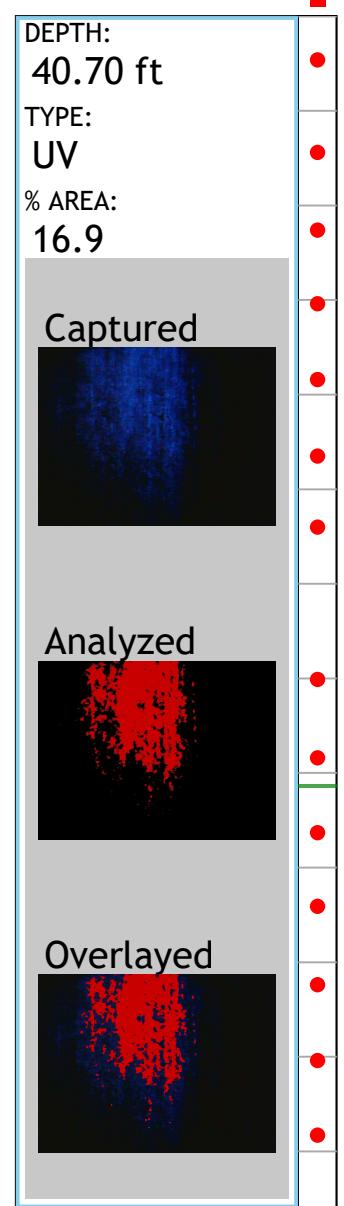
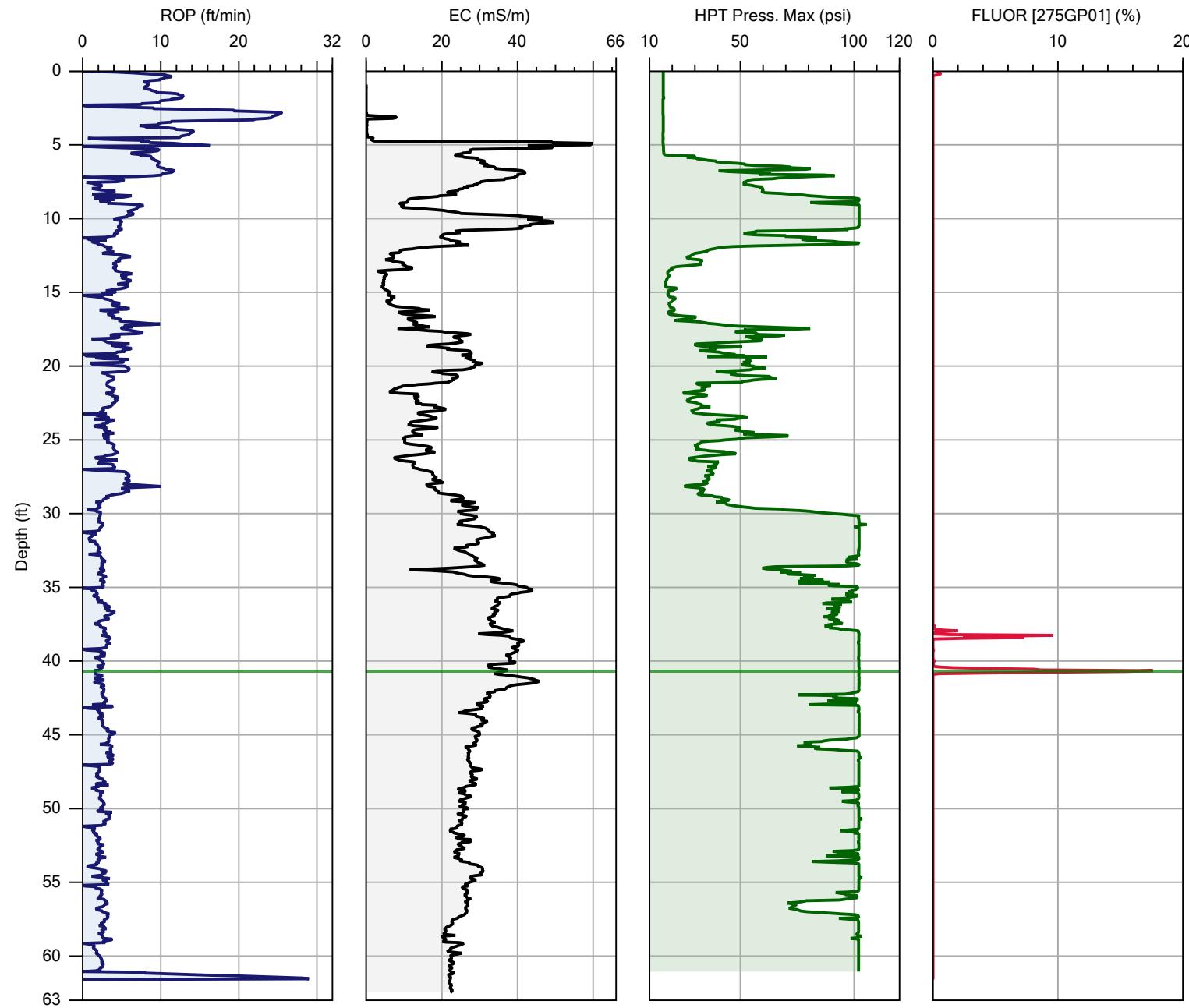
File:	SB3.OIHP
Date:	8/9/2022
Location:	SB3



S₂ C₂

Company: S2C2	Operator: TK	Date: 8/9/2022
Project ID: Shore Medical Center at Chestertown	Client: Apex Companies	Location: SB4

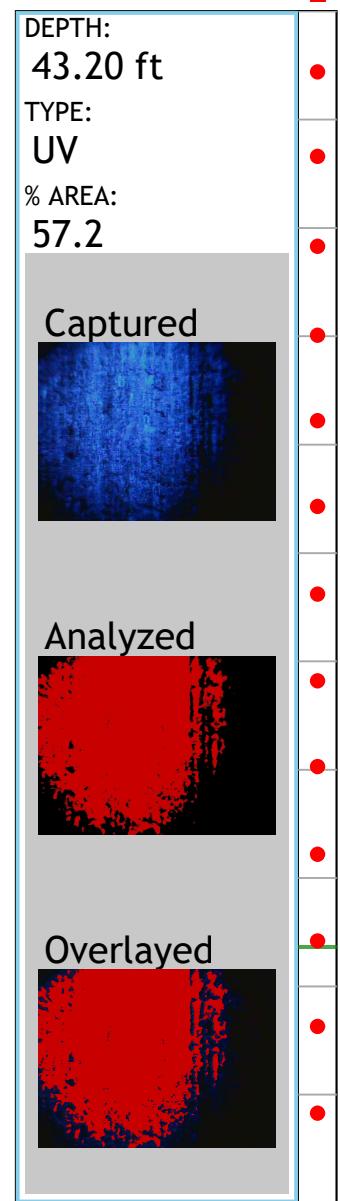
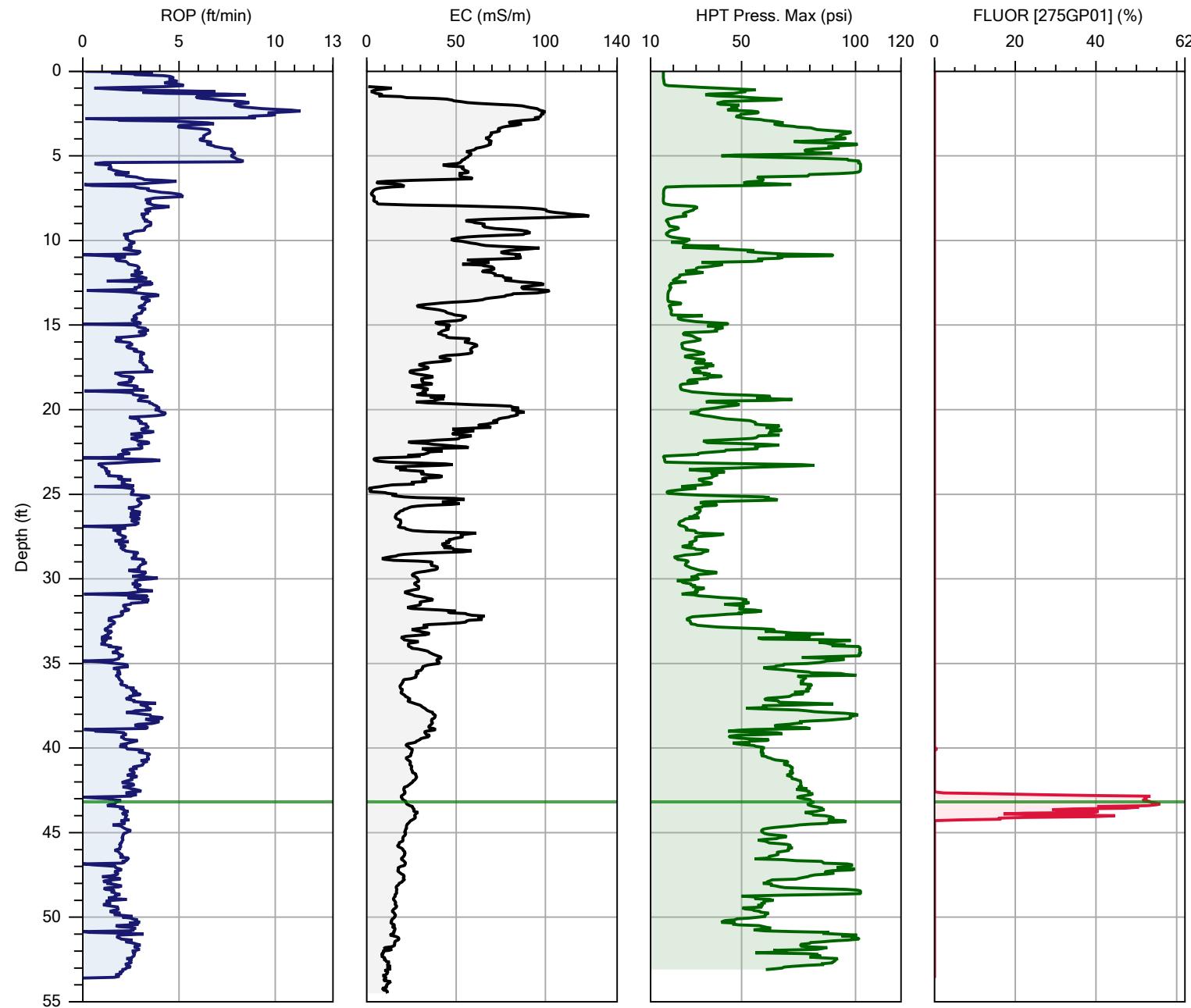
File: SB4.OIHP
Date: 8/9/2022



S₂ C₂

Company:	S2C2	Operator:	TK
Project ID:	Shore Medical Center at Chestertown	Client:	Apex Companies

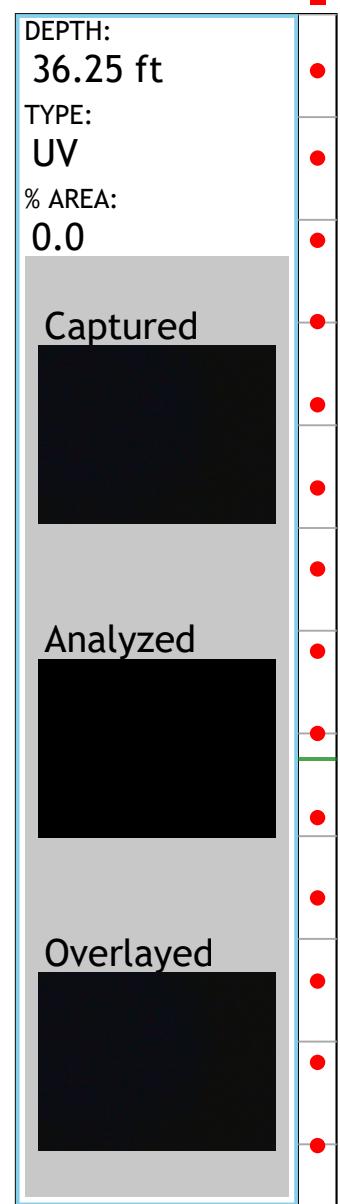
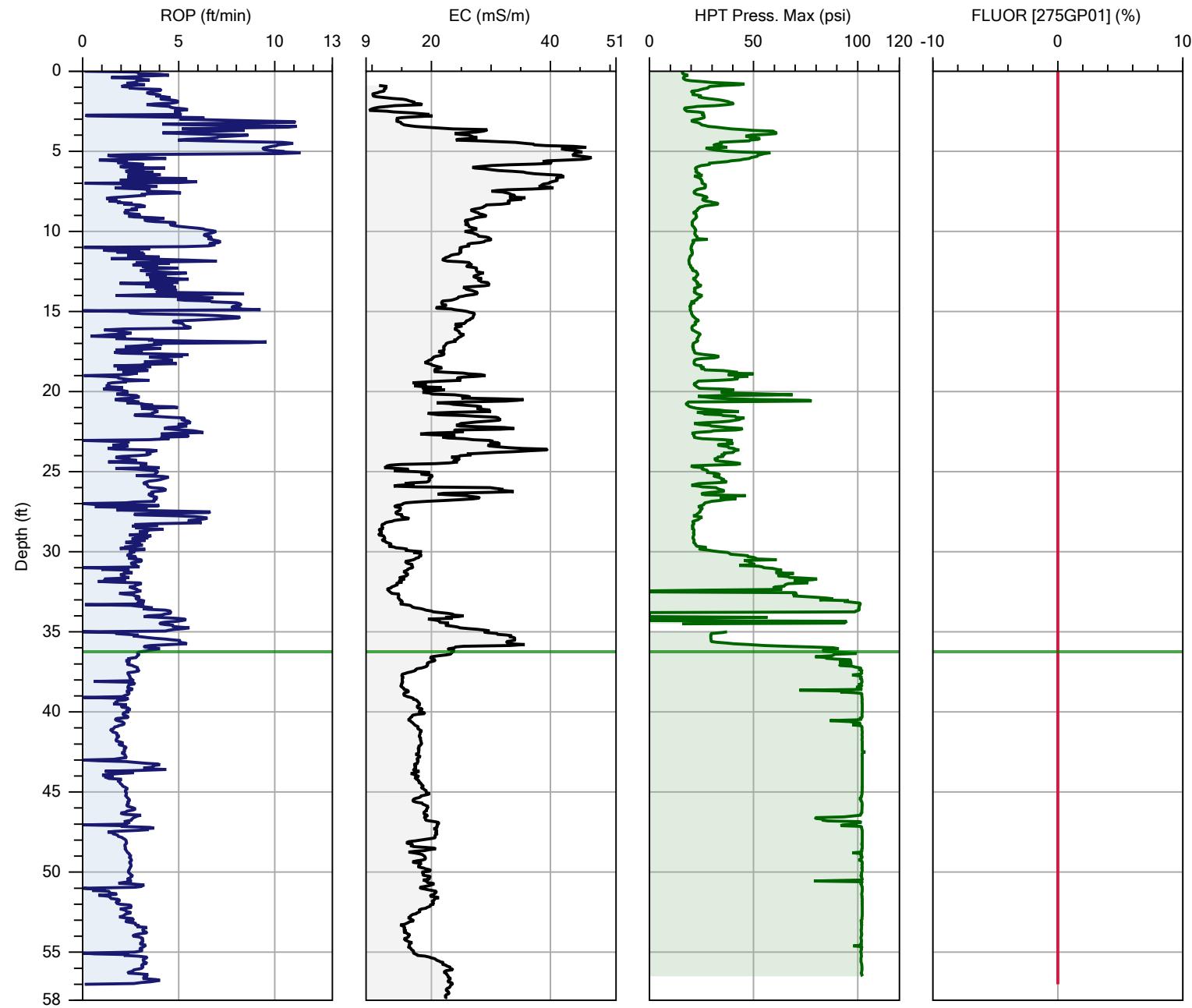
File:	SB5.OIHP
Date:	8/9/2022
Location:	SB5



S₂ C₂

Company: S2C2	Operator: TK
Project ID: Shore Medical Center at Chestertown	Client: Apex Companies

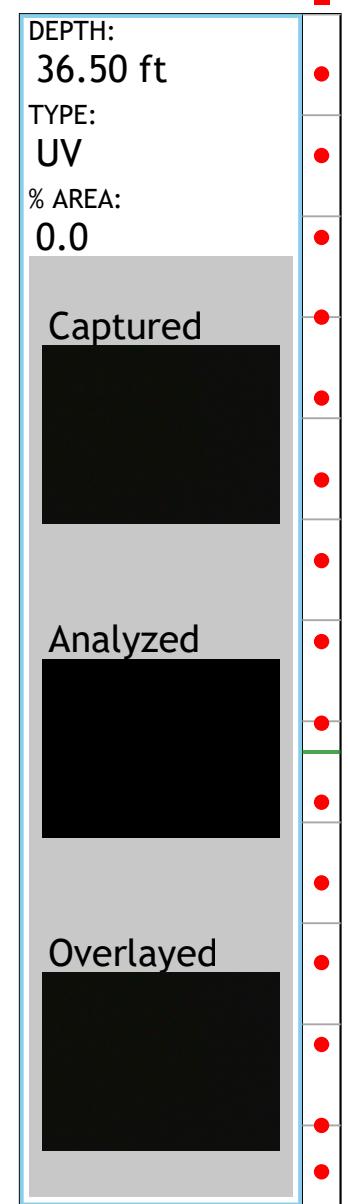
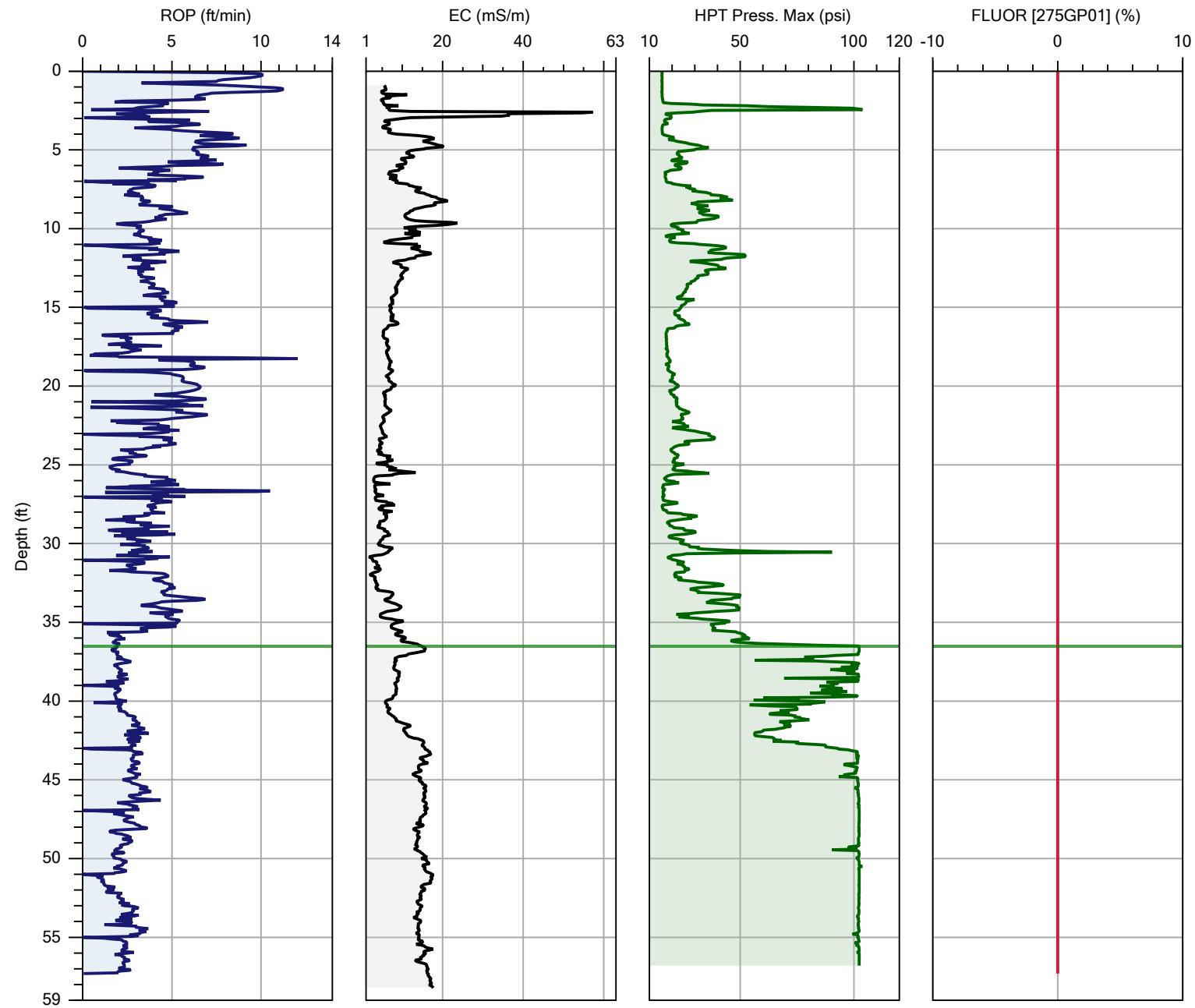
File: SB6.OIHP	Date: 8/10/2022
Location: SB6	



S₂ C₂

Company:	S2C2	Operator:	TK
Project ID:	Shore Medical Center at Chestertown	Client:	Apex Companies

File:	SB7.OIHP
Date:	8/9/2022
Location:	SB7



S₂ C₂

Company:	S2C2	Operator:	TK
Project ID:	Shore Medical Center at Chestertown	Client:	Apex Companies

File:	SB8.OIHP
Date:	8/10/2022
Location:	SB8

ATTACHMENT 3

Apex Soil Boring Logs



Soil/Well Boring Log

Boring No.:

SB1

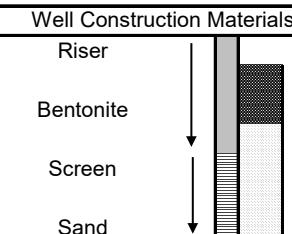
Project: Shore Medical Center LSI

Project No.: TOW029-0309010-22008272

Client:	Town of Chestertown
Location:	100 Brown Street, Chestertown MD
Operator:	A-Zone Env Serv - Eric Lindberg
Drill Method:	Direct Push - Dual-Tube
Date Start:	8/11/2022
Geologist:	Matt Fraioli
G.S. Elev.:	Total Depth: 35' bgs

Boring Location:
Along East Campus Ave
south of Hospital

Groundwater Readings		
feet bgs		
Date	Time	Depth to Water
8/11	1600	27.05
8/12	1150	27.17
8/15	0835	27.11
8/16	0900	27.11
8/22	0915	27.14



Sample Information

Depth (feet)	Sample Interval	Recovery (inches)	Sample No.	Field Screen (ppm)	Water Table	USCS	Lithologic Description/ Remarks		Temporary Well Construction	Depth (feet)
5							Light brown silty sand, very fine, top soil and gravels, slightly moist, no odor			1
10							Light brown clay, very stiff, high plasticity, slightly moist, no odor			5
15							Reddish brown sand, medium to fine grain, ironstone			10
20							Wet at 15' possible perched water zone			15
25							Reddish brown clayey sand, medium to fine grain, soft			20
30							Same as above, wet at 27'			25
35							Boring terminated at 35' Temp well set at 35' Temp well was abandoned on 08/22	PVC cap TD= 35' bgs		30
40										35
45										40
										45

REMARKS: Field Screen method / instrument: Ultrae 3000 PID, 9.8 eV lamp calibrated to 100 ppm isobutylene in air.



Soil/Well Boring Log

Boring No.: SB2
 Project: Shore Medical Center LSI
 Project No.: TOW029-0309010-22008272

Client: Location: Operator: Drill Method: Date Start: Geologist: G.S. Elev.:				Town of Chestertown 100 Brown Street, Chestertown MD A-Zone Env Serv - Eric Lindberg Direct Push - Dual-Tube 8/11/2022 Date End ##### Matt Fraioli Total Depth: 45' bgs		Boring Location: Southwest of Hospital near parking lot entrance	Groundwater Readings <i>feet bgs</i>			Well Construction Materials			
<i>Depth (feet)</i>	<i>Sample Interval</i>	<i>Recovery (inches)</i>	<i>Sample No.</i>	<i>Field Screen (ppm)</i>	<i>Water Table</i>	<i>USCS</i>	Date	Time	Depth to Water	Riser	Bentonite	Screen	Sand
							8/11	1355	34.85				
							8/12	1140	34.55				
							8/15	0830	34.61				
							8/16	0900	34.57				
							8/22	0940	34.59				
							Sample Information						
							Lithologic Description/ Remarks						
5							Light brown silty sand, very fine, and top soil, slightly moist, no odor						
10							Light brown clay, very stiff, high plasticity, slightly moist, no odor						
15							Reddish brown sand, medium to fine grain						
20							Light brown sand, coarse grain, Reddish brown sand, coarse with gravels, ironstone						
25							Light brown sand, well graded, soft, no odor						
30							Brown clayey sand, soft, medium to fine grain, wet, no odor						
35							Same as above, grade to light brown						
40							Light brown clay, high plasticity						
45							Boring terminated at 45' Boring collapsed to 44' and temp well set at 44' Temp well was abandoned on 08/22						
50													

REMARKS: Field Screen method / instrument: Ultrae 3000 PID, 9.8 eV lamp calibrated to 100 ppm isobutylene in air.



Soil/Well Boring Log

Boring No.: SB3

Project: Shore Medical Center LSI

Project No.: TOW029-0309010-22008272

Sample Information

REMARKS: Field Screen method / instrument: Ultrae 3000 PID, 9.8 eV lamp calibrated to 100 ppm isobutylene in air.



Soil/Well Boring Log

Boring No.:	SB4
Project:	Shore Medical Center LSI
Project No.:	TOW029-0309010-22008272
Client:	Town of Chestertown
Location:	100 Brown Street, Chestertown MD
Operator:	A-Zone Env Serv - Eric Lindberg
Drill Method:	Direct Push - Dual-Tube
Date Start:	8/12/2022
Geologist:	Matt Fraioli
G.S. Elev.:	Total Depth: 35' bgs

Sample Information

Depth (feet)	Sample Interval	Recovery (inches)	Sample No.	Field Screen (ppm)	Water Table	USCS	Lithologic Description/ Remarks			Temporary Well Construction	Depth (feet)
							feet bgs				
5				0.0		SW	Light brown silty sand, very fine, top soil and gravels, slightly moist, no odor			2" diameter borehole	5
10				0.0		CH	Light brown clay, very stiff, high plasticity, slightly moist, no odor			Well riser details: 0' - 20' bgs 1" ID SCH 40 PVC	10
15				0.0		SW	Reddish brown sand, medium to fine grain ironstone present				15
20				0.0							20
25				0.0						Well screen: 20' - 35' bgs 1" ID SCH 40 PVC 0.010" Slot	25
30				0.0							30
35				0.0						PVC cap TD= 35' bgs	35
40				0.0							40
45				0.0							45
REMARKS: Field Screen method / instrument: Ultrae 3000 PID, 9.8 eV lamp calibrated to 100 ppm isobutylene in air.											



Soil/Well Boring Log

Boring No.: SB5
 Project: Shore Medical Center LSI
 Project No.: TOW029-0309010-22008272

Client:	Town of Chestertown	Boring Location: In upper parking lot on Brown St. south of Hospital entrance	Groundwater Readings			Well Construction Materials 	
Location:	100 Brown Street, Chestertown MD		<i>feet bgs</i>				
Operator:	A-Zone Env Serv - Eric Lindberg		Date	Time	Depth to Water		
Drill Method:	Direct Push - Dual-Tube		8/12	1600	33.45		
Date Start:	8/12/2022		8/15	0835	33.42		
Geologist:	Matt Fraioli		8/16	0915	33.40		
G.S. Elev.:	Total Depth: 45' bgs		8/17	0935	33.43		

Sample Information

Depth (feet)	Sample Interval	Recovery (inches)	Sample No.	Field Screen (ppm)	Water Table	USCS	Lithologic Description/ Remarks	Temporary Well Construction		Depth (feet)
								Riser	Bentonite	
5		37		0.0		SW	Dark brown sand, top soil with roots, slightly moist, no odor			1
10		54		0.0		CH	Light brown clay, very stiff, high plasticity, moist, no odor			5
15		40		0.0			Same as above grades to gray			10
20		42		0.0		SC/SW	Reddish brown clayey sand very soft moist medium to fine grain, ironstone present	Well riser details: 0' - 20' bgs 1" ID SCH 40 PVC		15
25		30	SB5 25' 1330	0.0			Same as above	Well screen: 20' - 35' bgs 1" ID SCH 40 PVC 0.010" Slot		20
30		42		0.0						25
35		38		1.2						30
40		38.3		38.3						35
45		43	SB5 37' 1320	116.0	▼	SC/SW	Greenish clayey sand, very fine grain, strong petroleum odor slight stain	PVC cap TD = 42' bgs		40
50		35		83.0			Same as above grades to light brown			45
				2.5			Boring terminated at 45' Boring collapsed to 42' and temp well was set at 42'. No LNAPL detected Temp well was abandoned on 08/22			50

REMARKS: Field Screen method / instrument: Ultrae 3000 PID, 9.8 eV lamp calibrated to 100 ppm isobutylene in air.



Soil/Well Boring Log

Boring No.: SB6
 Project: Shore Medical Center LSI
 Project No.: TOW029-0309010-22008272

Client:	Town of Chestertown	Boring Location: In upper parking lot on Brown St south of Hospital entrance	Groundwater Readings			Well Construction Materials 	
Location:	100 Brown Street, Chestertown MD		<i>feet bgs</i>				
Operator:	A-Zone Env Serv - Eric Lindberg		Date	Time	Depth to Water		
Drill Method:	Direct Push - Dual-Tube		8/12	1640	35.01		
Date Start:	8/12/2022		8/15	0845	34.38		
Geologist:	Matt Fraioli		8/16	0920	34.34		
G.S. Elev.:	Total Depth: 45' bgs		8/17	0915	34.37		
Sample Information						8/22 1008 34.34	

Depth (feet)	Sample Interval	Recovery (inches)	Sample No.	Field Screen (ppm)	Water Table	USCS	Lithologic Description/ Remarks		Temporary Well Construction	Depth (feet)
5				0.0		SW	Top soils gravels and sand, light brown sandy clay			1
10				0.0		CH	Light brown clay with some sand, very stiff, high plasticity, slightly moist, no odor			5
15				0.0		SP	Reddish brown sand medium to fine grain		Well riser details: 0' - 30' bgs 1" ID SCH 40 PVC	10
20				0.0			Reddish brown clayey sand, medium - fine grain soft, ironstone present			15
25				0.0		SC/SW				20
30				0.0			Same as above			25
35				1.2						30
40				38.3		SC	Greenish brown clayey sand, wet, strong petroleum odor, stained soil		Well screen: 30' - 45' bgs 1" ID SCH 40 PVC 0.010" Slot	35
45				33.4					PVC cap TD = 45' bgs	40
50				29.0			Same as above grades to light brown			45
				11.8						50
				5.1			Boring terminated at 45' Temp well set at 45' No LNAPL detected Temp well was abandoned on 08/22			

REMARKS: Field Screen method / instrument: Ultrae 3000 PID, 9.8 eV lamp calibrated to 100 ppm isobutylene in air.



Soil/Well Boring Log

Boring No.: SB7
 Project: Shore Medical Center LSI
 Project No.: TOW029-0309010-22008272

Client:	Town of Chestertown	Boring Location:	Groundwater Readings			Well Construction Materials	
Location:	100 Brown Street, Chestertown MD	<i>feet bgs</i>					
Operator:	A-Zone Env Serv - Eric Lindberg				Riser		
Drill Method:	Direct Push - Dual-Tube				Bentonite		
Date Start:	8/11/2022	Date End	8/11/2022		Screen		
Geologist:	Matt Fraioli				Sand		
G.S. Elev.:	Total Depth: 45' bgs						

Sample Information

Depth (feet)	Sample Interval	Recovery (inches)	Sample No.	Field Screen (ppm)	Water Table	USCS	Lithologic Description/ Remarks	Temporary Well Construction	Depth (feet)
5									1
10									5
15									10
20									15
25									20
30									25
35									30
40									35
45									40
50									45
									50
REMARKS: Field Screen method / instrument: Ultrae 3000 PID, 9.8 eV lamp calibrated to 100 ppm isobutylene in air.									



Soil/Well Boring Log

Boring No.:	SB8
Project:	Shore Medical Center LSI
Project No.:	TOW029-0309010-22008272

Client:	Town of Chestertown	Boring Location:	Groundwater Readings			Well Construction Materials
Location:	100 Brown Street, Chestertown MD	East of the Hospital and north of the helipad	feet bgs			
Operator:	A-Zone Env Serv - Eric Lindberg		Date	Time	Depth to Water	
Drill Method:	Direct Push - Dual-Tube		8/11	1000	42.70	
Date Start:	8/11/2022	Date End	8/11/2022	8/15	0815	42.64
Geologist:	Matt Fraioli			8/16	0900	42.63
G.S. Elev.:	Total Depth: 50' bgs			8/17	0845	42.66

Sample Information

Depth (feet)	Sample Interval	Recovery (inches)	Sample No.	Field Screen (ppm)	Water Table	USCS	Lithologic Description/ Remarks		Temporary Well Construction	Depth (feet)
5							Light brown silty sand, stiff, top soil and gravels, moist, no odor		2" diameter borehole	1
10							Light brown clayey sand, soft, moist, no odor			5
15							Brown soft clayey sand, interbedded reddish brown gravels, soft, moist		Well riser details: 0' - 20' bgs 1" ID SCH 40 PVC	10
20										15
25										20
30										25
35										30
40										35
45										40
50										45
SB8	39'	0.8	SB8	0.8	SP	Light brown sand, fine, very soft, moist well sorted		Well screen: 30' - 45' bgs 1" ID SCH 40 PVC 0.010" Slot	50	
930			40'		SC/SW	Reddish brown clayey sand, slightly moist, with gravels, ironstone present		PVC cap		
SB8	940	0.0			SP	Light brown sand, slightly moist, fine well sorted		TD = 45' bgs		
						Same as above, wet				
						Boring terminated at 50'. Boring collapsed to 45' and temp well set at 45'				
						Temp well was abandoned on 08/22				

REMARKS: Field Screen method / instrument: Ultrae 3000 PID, 9.8 eV lamp calibrated to 100 ppm isobutylene in air

ATTACHMENT 4

IDW Disposal Manifest

Petroleum Management, Inc.

MD. Oil Operation Permit No: 2011-OPT-38311
 EPA Identification NO: MDR000525278
 Federal ID NO: 42-2014536

5218 Curtis Avenue • Baltimore, Maryland 21226 • Phone 410-354-0200 • Fax 410-721-1390

Bill of Lading/Manifest

No. 34340

Generator/Shipper: APEX Companies, LLC			Billing Name: APEX Companies, LLC		
Site Address: 100 Brown St			Address: 15850 Crabbs Branch Way, Suite 200		
City: Chestertown	State: MD	Zip: 21620	City: Rockville	State: MD	Zip: 20855
Phone: 571-229-6531	Contact: Matt		Phone: 202-794-3006	Contact: Matt	
Purchase Order No:					

MATERIAL CHARACTERIZATION (CHECK ALL THAT APPLY):

Description:	Gallons	Description:	Gallons	Description:	Gallons
Gasoline, 3, UN1203, PGIII		Hazardous Waste, Liquid, 9 NA3082, PGIII		JP#4	
#2 fuel Oil, 3, NA1993, PGIII		Hazardous Waste, Solid, 9 NA3077, PGIII		JP#5	
#4 fuel Oil, 3 NA1993, PGIII		Paint Thinners, 3, UN1263, PGI		Jet A	
#6 fuel Oil, 3, NA1993, PGIII		Ethylene Glycol, 9, UN3082, PGIII		Sludge	
Diesel, 3, NA1993 PGIII		Lube Oil		Petroleum Contaminated Water	
Flammable Liquids, NOS, 3, UN1993, PGI		Waste Oil		Other	
Corrosive Liquids, NOS, 3, UN1760, PGII		Kerosene		Other	
No of Drums:	2	No. of Tanks:		Other	
Scale Weights (Soil): Total: (Tons)		Tare: (Tons)		Net: (Tons)	

Service Description : Picked up (2) 55gal drums & transported to PMI yard for processing.

PLACARDS TENDERED YES NO EMERGENCY CONTACT (410) 354-0200

Generator/Shipper Certification Statement

As the generator or shipper, I hereby certify that this material is properly classified and does not contain Polychlorinated Biphenyls (PCB'S). To the best of my knowledge it has not been mixed, combined or blended in any amount with any other material defined as hazardous waste under applicable law. Generator/Shipper agrees to indemnify and hold Petroleum Management, Inc. harmless for any damages arising from or in any way relating to a breach of this Certification Statement.

X Generator/Shipper Authorized Agent (Print)	APEX - UMD Shore Medical Center @ Chestertown	Date Of Services	8/18/22
X Generator/Shipper Authorized Agent (Signature)			

HAULER/CARRIER INFORMATION

Co. Name Petroleum Management, Inc.	Driver Name (print) Alphonsus Cox		
Street 5218 Curtis Avenue	Driver Signature		
City Baltimore	State MD	Zip 21226	Phone 4103540200
The above mentioned materials have been received by this facility and will be handled in accordance with all applicable rules and regulations. All quantities are subject to final verification by this facility and are indicated in far right box.			
RECEIVING FACILITY ACCEPTANCE			
Facility Name PMI			
Acceptance Signature			
Phone 410-354-0200		Total Quantity Received 2 drums	

ATTACHMENT 5

Photograph Documentation

Photograph 1

Description: View of A-Zone drilling at SB-8 location, facing west. University of Maryland Shore Medical Center is visible in the background.



Photograph 2

Description: View of SB-1 location along East Campus Avenue.



Photograph 3

Description: View of A-Zone constructing temporary well at SB-3 location in lower parking lot south of the Medical Center.



Photograph: 4

Description: View of A-Zone constructing temporary well at SB-4 location. HRSC O&P borehole visible next to temporary well.



Photograph: 5

Description: View of A-Zone drilling at SB-5 location at the upper parking lot south of the Medical Center.



Photograph: 6

Description: View of A-Zone drilling at SB-6 location at the upper parking lot southeast of the Medical Center.



Photograph: 7

Description: View of A-Zone drilling at SB-2 location, within the parking lot entrance southwest of the Medical Center.



Photograph: 8

Description: View of two (2) 55-gallons drums containing soil cuttings and decon/purge water. Drums were staged behind the maintenance shop east of the Medical Center.



Photograph: 9

Description: View of groundwater sampling at TW-1.



Photograph: 10
Description: View of groundwater sampling at TW-5.



Photograph: 11
Description: View of A-Zone mixing grout for temporary well abandonment at TW-3.



Photograph: 12
Description: View of A-Zone hydrating bentonite for temporary well abandonment at TW-1.



Photograph 13

Description: View of A-Zone pulling PVC from ground for temporary well abandonment at TW-7.



Photograph 14

Description: View of A-Zone spreading topsoil post temporary well abandonment at TW-6.



ATTACHMENT 6

Laboratory Certificates of Analysis & Chain of Custody Record
for Soil Samples

Certificate of Analysis

Project Name: Chestertown
PSS Project No.: 22081223

August 22, 2022

Calvin Mentzer
Apex Companies, LLC
15850 Crabbs Branch Way, Ste 200
Rockville, MD 20855

Reference: PSS Project No: **22081223**
Project Name: Chestertown



Dear Calvin Mentzer:

This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Project number(s) **22081223**.

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

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on September 16, 2022, with the exception of air canisters which are cleaned immediately following analysis. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

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

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

Sincerely,


Dan Prucnal

Laboratory Manager



Explanation of Qualifiers

6630 Baltimore National Pike
 Baltimore, MD 21228
 410-747-8770
 800-932-9047
www.phaseonline.com

Project Name: Chestertown

PSS Project No.: 22081223

The following samples were received under chain of custody by Phase Separation Science (PSS) on 08/12/2022 at 06:25 pm

PSS Sample ID	Sample ID	Matrix	Date/Time Collected
22081223-001	SB8 39'	SOIL	08/11/22 09:30
22081223-002	SB8 43'	SOIL	08/11/22 09:40
22081223-003	SB7 40'	SOIL	08/11/22 11:10
22081223-004	SB7 12'	SOIL	08/11/22 11:20
22081223-005	SB1 34'	SOIL	08/11/22 15:30
22081223-006	SB1 23'	SOIL	08/11/22 15:40
22081223-007	SB2 32'	SOIL	08/11/22 13:40
22081223-008	SB2 41'	SOIL	08/11/22 13:50
22081223-009	SB3 31'	SOIL	08/12/22 09:00
22081223-010	SB3 22'	SOIL	08/12/22 09:10
22081223-011	SB4 28'	SOIL	08/12/22 10:30
22081223-012	SB4 34'	SOIL	08/12/22 10:40
22081223-013	SB5 25'	SOIL	08/12/22 13:30
22081223-014	SB5 37'	SOIL	08/12/22 13:20
22081223-015	SB6 39'	SOIL	08/12/22 15:40
22081223-016	SB6 44'	SOIL	08/12/22 15:50

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

Notes:

1. The presence of a common laboratory contaminant such as methylene chloride may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. Unless otherwise noted in the case narrative, results are reported on a dry weight basis with the exception of pH, flashpoint, moisture, and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminants, and part 141.3, for the secondary drinking water contaminants.
5. Sample prepared under EPA 3550C with concentrations greater than 20 mg/Kg should employ the microtip extraction procedure if required to meet data quality objectives.
6. The analysis of acrolein by EPA 624 must be analyzed within three days of sampling unless pH is adjusted to 4-5 units [40 CFR part 136.3(e)].
7. Method 180.1, The Determination of Turbidity by Nephelometry, recommends samples over 40 NTU be diluted until the turbidity falls below 40 units. Routine samples over 40 NTU may not be diluted as long as the data quality objectives are not affected.
8. Alkalinity results analyzed by EPA 310.2 that are reported by dilution are estimated and are not in compliance with method requirements.

Explanation of Qualifiers

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Project Name: Chestertown

PSS Project No.: 22081223

Standard Flags/Abbreviations:

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
- J The target analyte was positively identified below the reporting limit but greater than the MDL.
- MDL This is the Laboratory Method Detection Limit which is equivalent to the Limit of Detection (LOD). The LOD is the minimum result, which can be reliably discriminated from a blank with a predetermined confidence level. This value will remain constant across multiple similar instrumentation and among different analysts. An LOD is analyte and matrix specific.
- instrumentation and among different analysts. An LOD is analyte and matrix specific.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.

Certifications:

NELAP Certifications: PA 68-03330, VA 460156

State Certifications: MD 179, WV 303

Regulated Soil Permit: P330-12-00268

NSWC USCG Accepted Laboratory

LDBE MWAA LD1997-0041-2015

Certificate of Analysis

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Project Name: Chestertown
 PSS Project No.: 22081223

Sample ID: SB8 39'	Date/Time Sampled: 08/11/2022 09:30			PSS Sample ID: 22081223-001		
Matrix: SOIL	Date/Time Received: 08/12/2022 18:25			% Solids SM2540G-11: 90.3		

Total Petroleum Hydrocarbons - DRO Analytical Method: SW-846 8015C DRO Preparation Method: SW3550C

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/kg	3.7	1		08/17/22	08/17/22 21:35	1069
Surrogate(s)	Recovery		Limits					
o-Terphenyl	70	%	39-119	1		08/17/22	08/17/22 21:35	1069

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C GRO Preparation Method: SW5035A

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	mg/kg	0.100	1		08/18/22	08/18/22 12:33	1045
Surrogate(s)	Recovery		Limits					
a,a,a-Trifluorotoluene	83	%	68-120	1		08/18/22	08/18/22 12:33	1045

TCL Volatile Organic Compounds Analytical Method: SW-846 8260 D Preparation Method: SW5035A

Qualifier(s): See Batch 196498 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	mg/kg	0.015	1		08/20/22	08/20/22 12:40	1045
Benzene	ND	mg/kg	0.00077	1		08/20/22	08/20/22 12:40	1045
Bromochloromethane	ND	mg/kg	0.00077	1		08/20/22	08/20/22 12:40	1045
Bromodichloromethane	ND	mg/kg	0.00077	1		08/20/22	08/20/22 12:40	1045
Bromoform	ND	mg/kg	0.00077	1		08/20/22	08/20/22 12:40	1045
Bromomethane	ND	mg/kg	0.00077	1		08/20/22	08/20/22 12:40	1045
2-Butanone (MEK)	ND	mg/kg	0.0038	1		08/20/22	08/20/22 12:40	1045
Carbon Disulfide	ND	mg/kg	0.00077	1		08/20/22	08/20/22 12:40	1045
Carbon tetrachloride	ND	mg/kg	0.00077	1		08/20/22	08/20/22 12:40	1045
Chlorobenzene	ND	mg/kg	0.00077	1		08/20/22	08/20/22 12:40	1045
Chloroethane	ND	mg/kg	0.00077	1		08/20/22	08/20/22 12:40	1045
Chloroform	ND	mg/kg	0.0038	1		08/20/22	08/20/22 12:40	1045
Chloromethane	ND	mg/kg	0.00077	1		08/20/22	08/20/22 12:40	1045
Cyclohexane	ND	mg/kg	0.00077	1		08/20/22	08/20/22 12:40	1045
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.00077	1		08/20/22	08/20/22 12:40	1045
Dibromochloromethane	ND	mg/kg	0.00077	1		08/20/22	08/20/22 12:40	1045
1,2-Dibromoethane	ND	mg/kg	0.00077	1		08/20/22	08/20/22 12:40	1045
1,2-Dichlorobenzene	ND	mg/kg	0.00077	1		08/20/22	08/20/22 12:40	1045

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Project Name: Chestertown
 PSS Project No.: 22081223

Sample ID: SB8 39'	Date/Time Sampled: 08/11/2022 09:30	PSS Sample ID: 22081223-001
Matrix: SOIL	Date/Time Received: 08/12/2022 18:25 % Solids SM2540G-11: 90.3	

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5035A

Qualifier(s): See Batch 196498 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,3-Dichlorobenzene	ND	mg/kg	0.00077	1	1	08/20/22	08/20/22 12:40	1045
1,4-Dichlorobenzene	ND	mg/kg	0.00077	1	1	08/20/22	08/20/22 12:40	1045
Dichlorodifluoromethane	ND	mg/kg	0.00077	1	1	08/20/22	08/20/22 12:40	1045
1,1-Dichloroethane	ND	mg/kg	0.00077	1	1	08/20/22	08/20/22 12:40	1045
1,2-Dichloroethane	ND	mg/kg	0.00077	1	1	08/20/22	08/20/22 12:40	1045
1,1-Dichloroethene	ND	mg/kg	0.00077	1	1	08/20/22	08/20/22 12:40	1045
cis-1,2-Dichloroethene	ND	mg/kg	0.00077	1	1	08/20/22	08/20/22 12:40	1045
1,2-Dichloropropane	ND	mg/kg	0.00077	1	1	08/20/22	08/20/22 12:40	1045
cis-1,3-Dichloropropene	ND	mg/kg	0.00077	1	1	08/20/22	08/20/22 12:40	1045
trans-1,2-Dichloroethene	ND	mg/kg	0.00077	1	1	08/20/22	08/20/22 12:40	1045
trans-1,3-Dichloropropene	ND	mg/kg	0.00077	1	1	08/20/22	08/20/22 12:40	1045
Ethylbenzene	ND	mg/kg	0.00077	1	1	08/20/22	08/20/22 12:40	1045
2-Hexanone (MBK)	ND	mg/kg	0.00077	1	1	08/20/22	08/20/22 12:40	1045
Isopropylbenzene	ND	mg/kg	0.00077	1	1	08/20/22	08/20/22 12:40	1045
Methyl Acetate	ND	mg/kg	0.019	1	1	08/20/22	08/20/22 12:40	1045
Methylcyclohexane	ND	mg/kg	0.00077	1	1	08/20/22	08/20/22 12:40	1045
Methylene chloride	ND	mg/kg	0.0038	1	1	08/20/22	08/20/22 12:40	1045
4-Methyl-2-Pantanone (MIBK)	ND	mg/kg	0.00077	1	1	08/20/22	08/20/22 12:40	1045
Methyl-t-Butyl Ether	ND	mg/kg	0.00077	1	1	08/20/22	08/20/22 12:40	1045
Naphthalene	ND	mg/kg	0.00077	1	1	08/20/22	08/20/22 12:40	1045
Styrene	ND	mg/kg	0.00077	1	1	08/20/22	08/20/22 12:40	1045
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.00077	1	1	08/20/22	08/20/22 12:40	1045
Tetrachloroethene	ND	mg/kg	0.00077	1	1	08/20/22	08/20/22 12:40	1045
Toluene	ND	mg/kg	0.00077	1	1	08/20/22	08/20/22 12:40	1045
1,2,3-Trichlorobenzene	ND	mg/kg	0.00077	1	1	08/20/22	08/20/22 12:40	1045
1,2,4-Trichlorobenzene	ND	mg/kg	0.00077	1	1	08/20/22	08/20/22 12:40	1045
1,1,1-Trichloroethane	ND	mg/kg	0.00077	1	1	08/20/22	08/20/22 12:40	1045
1,1,2-Trichloroethane	ND	mg/kg	0.00077	1	1	08/20/22	08/20/22 12:40	1045
Trichloroethene	ND	mg/kg	0.00077	1	1	08/20/22	08/20/22 12:40	1045
Trichlorofluoromethane	ND	mg/kg	0.00077	1	1	08/20/22	08/20/22 12:40	1045
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.00077	1	1	08/20/22	08/20/22 12:40	1045
Vinyl chloride	ND	mg/kg	0.0038	1	1	08/20/22	08/20/22 12:40	1045
m&p-Xylene	ND	mg/kg	0.0015	1	1	08/20/22	08/20/22 12:40	1045
o-Xylene	ND	mg/kg	0.00077	1	1	08/20/22	08/20/22 12:40	1045

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Project Name: Chestertown
PSS Project No.: 22081223

Sample ID: SB8 39' **Date/Time Sampled: 08/11/2022 09:30** **PSS Sample ID: 22081223-001**

Matrix: SOIL **Date/Time Received: 08/12/2022 18:25** **% Solids SM2540G-11: 90.3**

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5035A

Qualifier(s): See Batch 196498 on Case Narrative.

Surrogate(s)	Recovery		Limits				
4-Bromofluorobenzene	101	%	89-111	1	08/20/22	08/20/22 12:40	1045
Dibromofluoromethane	97	%	91-108	1	08/20/22	08/20/22 12:40	1045
Toluene-D8	99	%	93-104	1	08/20/22	08/20/22 12:40	1045

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Project Name: Chestertown
 PSS Project No.: 22081223

Sample ID: SB8 43'	Date/Time Sampled: 08/11/2022 09:40			PSS Sample ID: 22081223-002		
Matrix: SOIL	Date/Time Received: 08/12/2022 18:25			% Solids SM2540G-11: 81.5		

Total Petroleum Hydrocarbons - DRO Analytical Method: SW-846 8015C DRO Preparation Method: SW3550C

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/kg	4.1	1		08/17/22	08/17/22 22:00	1069
Surrogate(s)	Recovery		Limits					
o-Terphenyl	90	%	39-119	1		08/17/22	08/17/22 22:00	1069

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C GRO Preparation Method: SW5035A

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	mg/kg	0.10	1		08/18/22	08/18/22 12:58	1045
Surrogate(s)	Recovery		Limits					
a,a,a-Trifluorotoluene	75	%	68-120	1		08/18/22	08/18/22 12:58	1045

TCL Volatile Organic Compounds Analytical Method: SW-846 8260 D Preparation Method: SW5035A

Qualifier(s): See Batch 196498 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	mg/kg	0.018	1		08/20/22	08/20/22 13:02	1045
Benzene	ND	mg/kg	0.00090	1		08/20/22	08/20/22 13:02	1045
Bromochloromethane	ND	mg/kg	0.00090	1		08/20/22	08/20/22 13:02	1045
Bromodichloromethane	ND	mg/kg	0.00090	1		08/20/22	08/20/22 13:02	1045
Bromoform	ND	mg/kg	0.00090	1		08/20/22	08/20/22 13:02	1045
Bromomethane	ND	mg/kg	0.00090	1		08/20/22	08/20/22 13:02	1045
2-Butanone (MEK)	ND	mg/kg	0.0045	1		08/20/22	08/20/22 13:02	1045
Carbon Disulfide	ND	mg/kg	0.00090	1		08/20/22	08/20/22 13:02	1045
Carbon tetrachloride	ND	mg/kg	0.00090	1		08/20/22	08/20/22 13:02	1045
Chlorobenzene	ND	mg/kg	0.00090	1		08/20/22	08/20/22 13:02	1045
Chloroethane	ND	mg/kg	0.00090	1		08/20/22	08/20/22 13:02	1045
Chloroform	ND	mg/kg	0.0045	1		08/20/22	08/20/22 13:02	1045
Chloromethane	ND	mg/kg	0.00090	1		08/20/22	08/20/22 13:02	1045
Cyclohexane	ND	mg/kg	0.00090	1		08/20/22	08/20/22 13:02	1045
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.00090	1		08/20/22	08/20/22 13:02	1045
Dibromochloromethane	ND	mg/kg	0.00090	1		08/20/22	08/20/22 13:02	1045
1,2-Dibromoethane	ND	mg/kg	0.00090	1		08/20/22	08/20/22 13:02	1045
1,2-Dichlorobenzene	ND	mg/kg	0.00090	1		08/20/22	08/20/22 13:02	1045

Certificate of Analysis

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Project Name: Chestertown
 PSS Project No.: 22081223

Sample ID: SB8 43'	Date/Time Sampled: 08/11/2022 09:40	PSS Sample ID: 22081223-002
Matrix: SOIL	Date/Time Received: 08/12/2022 18:25 % Solids SM2540G-11: 81.5	

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5035A

Qualifier(s): See Batch 196498 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,3-Dichlorobenzene	ND	mg/kg	0.00090	1		08/20/22	08/20/22 13:02	1045
1,4-Dichlorobenzene	ND	mg/kg	0.00090	1		08/20/22	08/20/22 13:02	1045
Dichlorodifluoromethane	ND	mg/kg	0.00090	1		08/20/22	08/20/22 13:02	1045
1,1-Dichloroethane	ND	mg/kg	0.00090	1		08/20/22	08/20/22 13:02	1045
1,2-Dichloroethane	ND	mg/kg	0.00090	1		08/20/22	08/20/22 13:02	1045
1,1-Dichloroethene	ND	mg/kg	0.00090	1		08/20/22	08/20/22 13:02	1045
cis-1,2-Dichloroethene	ND	mg/kg	0.00090	1		08/20/22	08/20/22 13:02	1045
1,2-Dichloropropane	ND	mg/kg	0.00090	1		08/20/22	08/20/22 13:02	1045
cis-1,3-Dichloropropene	ND	mg/kg	0.00090	1		08/20/22	08/20/22 13:02	1045
trans-1,2-Dichloroethene	ND	mg/kg	0.00090	1		08/20/22	08/20/22 13:02	1045
trans-1,3-Dichloropropene	ND	mg/kg	0.00090	1		08/20/22	08/20/22 13:02	1045
Ethylbenzene	ND	mg/kg	0.00090	1		08/20/22	08/20/22 13:02	1045
2-Hexanone (MBK)	ND	mg/kg	0.00090	1		08/20/22	08/20/22 13:02	1045
Isopropylbenzene	ND	mg/kg	0.00090	1		08/20/22	08/20/22 13:02	1045
Methyl Acetate	ND	mg/kg	0.023	1		08/20/22	08/20/22 13:02	1045
Methylcyclohexane	ND	mg/kg	0.00090	1		08/20/22	08/20/22 13:02	1045
Methylene chloride	ND	mg/kg	0.0045	1		08/20/22	08/20/22 13:02	1045
4-Methyl-2-Pantanone (MIBK)	ND	mg/kg	0.00090	1		08/20/22	08/20/22 13:02	1045
Methyl-t-Butyl Ether	ND	mg/kg	0.00090	1		08/20/22	08/20/22 13:02	1045
Naphthalene	ND	mg/kg	0.00090	1		08/20/22	08/20/22 13:02	1045
Styrene	ND	mg/kg	0.00090	1		08/20/22	08/20/22 13:02	1045
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.00090	1		08/20/22	08/20/22 13:02	1045
Tetrachloroethene	ND	mg/kg	0.00090	1		08/20/22	08/20/22 13:02	1045
Toluene	ND	mg/kg	0.00090	1		08/20/22	08/20/22 13:02	1045
1,2,3-Trichlorobenzene	ND	mg/kg	0.00090	1		08/20/22	08/20/22 13:02	1045
1,2,4-Trichlorobenzene	ND	mg/kg	0.00090	1		08/20/22	08/20/22 13:02	1045
1,1,1-Trichloroethane	ND	mg/kg	0.00090	1		08/20/22	08/20/22 13:02	1045
1,1,2-Trichloroethane	ND	mg/kg	0.00090	1		08/20/22	08/20/22 13:02	1045
Trichloroethene	ND	mg/kg	0.00090	1		08/20/22	08/20/22 13:02	1045
Trichlorofluoromethane	ND	mg/kg	0.00090	1		08/20/22	08/20/22 13:02	1045
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.00090	1		08/20/22	08/20/22 13:02	1045
Vinyl chloride	ND	mg/kg	0.0045	1		08/20/22	08/20/22 13:02	1045
m&p-Xylene	ND	mg/kg	0.0018	1		08/20/22	08/20/22 13:02	1045
o-Xylene	ND	mg/kg	0.00090	1		08/20/22	08/20/22 13:02	1045

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Project Name: Chestertown
PSS Project No.: 22081223

Sample ID: SB8 43' **Date/Time Sampled: 08/11/2022 09:40** **PSS Sample ID: 22081223-002**

Matrix: SOIL **Date/Time Received: 08/12/2022 18:25** **% Solids SM2540G-11: 81.5**

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5035A

Qualifier(s): See Batch 196498 on Case Narrative.

Surrogate(s)	Recovery		Limits				
4-Bromofluorobenzene	101	%	89-111	1	08/20/22	08/20/22 13:02	1045
Dibromofluoromethane	97	%	91-108	1	08/20/22	08/20/22 13:02	1045
Toluene-D8	98	%	93-104	1	08/20/22	08/20/22 13:02	1045

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Project Name: Chestertown
 PSS Project No.: 22081223

Sample ID: SB7 40'	Date/Time Sampled: 08/11/2022 11:10	PSS Sample ID: 22081223-003
Matrix: SOIL	Date/Time Received: 08/12/2022 18:25 % Solids SM2540G-11: 84.5	

Total Petroleum Hydrocarbons - DRO Analytical Method: SW-846 8015C DRO Preparation Method: SW3550C

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/kg	4.0	1		08/17/22	08/17/22 22:00	1069
Surrogate(s)	Recovery			Limits				
o-Terphenyl	76	%	39-119		1	08/17/22	08/17/22 22:00	1069

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C GRO Preparation Method: SW5035A

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	mg/kg	0.10	1		08/18/22	08/18/22 13:22	1045
Surrogate(s)	Recovery			Limits				
a,a,a-Trifluorotoluene	75	%	68-120		1	08/18/22	08/18/22 13:22	1045

TCL Volatile Organic Compounds Analytical Method: SW-846 8260 D Preparation Method: SW5035A

Qualifier(s): See Batch 196498 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	mg/kg	0.018	1		08/20/22	08/20/22 13:24	1045
Benzene	ND	mg/kg	0.00092	1		08/20/22	08/20/22 13:24	1045
Bromochloromethane	ND	mg/kg	0.00092	1		08/20/22	08/20/22 13:24	1045
Bromodichloromethane	ND	mg/kg	0.00092	1		08/20/22	08/20/22 13:24	1045
Bromoform	ND	mg/kg	0.00092	1		08/20/22	08/20/22 13:24	1045
Bromomethane	ND	mg/kg	0.00092	1		08/20/22	08/20/22 13:24	1045
2-Butanone (MEK)	ND	mg/kg	0.0046	1		08/20/22	08/20/22 13:24	1045
Carbon Disulfide	ND	mg/kg	0.00092	1		08/20/22	08/20/22 13:24	1045
Carbon tetrachloride	ND	mg/kg	0.00092	1		08/20/22	08/20/22 13:24	1045
Chlorobenzene	ND	mg/kg	0.00092	1		08/20/22	08/20/22 13:24	1045
Chloroethane	ND	mg/kg	0.00092	1		08/20/22	08/20/22 13:24	1045
Chloroform	ND	mg/kg	0.0046	1		08/20/22	08/20/22 13:24	1045
Chloromethane	ND	mg/kg	0.00092	1		08/20/22	08/20/22 13:24	1045
Cyclohexane	ND	mg/kg	0.00092	1		08/20/22	08/20/22 13:24	1045
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.00092	1		08/20/22	08/20/22 13:24	1045
Dibromochloromethane	ND	mg/kg	0.00092	1		08/20/22	08/20/22 13:24	1045
1,2-Dibromoethane	ND	mg/kg	0.00092	1		08/20/22	08/20/22 13:24	1045
1,2-Dichlorobenzene	ND	mg/kg	0.00092	1		08/20/22	08/20/22 13:24	1045

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Project Name: Chestertown
 PSS Project No.: 22081223

Sample ID: SB7 40'	Date/Time Sampled: 08/11/2022 11:10	PSS Sample ID: 22081223-003
Matrix: SOIL	Date/Time Received: 08/12/2022 18:25	% Solids SM2540G-11: 84.5

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5035A

Qualifier(s): See Batch 196498 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,3-Dichlorobenzene	ND	mg/kg	0.00092	1		08/20/22	08/20/22 13:24	1045
1,4-Dichlorobenzene	ND	mg/kg	0.00092	1		08/20/22	08/20/22 13:24	1045
Dichlorodifluoromethane	ND	mg/kg	0.00092	1		08/20/22	08/20/22 13:24	1045
1,1-Dichloroethane	ND	mg/kg	0.00092	1		08/20/22	08/20/22 13:24	1045
1,2-Dichloroethane	ND	mg/kg	0.00092	1		08/20/22	08/20/22 13:24	1045
1,1-Dichloroethene	ND	mg/kg	0.00092	1		08/20/22	08/20/22 13:24	1045
1,2-Dichloropropane	ND	mg/kg	0.00092	1		08/20/22	08/20/22 13:24	1045
cis-1,2-Dichloroethene	ND	mg/kg	0.00092	1		08/20/22	08/20/22 13:24	1045
cis-1,3-Dichloropropene	ND	mg/kg	0.00092	1		08/20/22	08/20/22 13:24	1045
trans-1,2-Dichloroethene	ND	mg/kg	0.00092	1		08/20/22	08/20/22 13:24	1045
trans-1,3-Dichloropropene	ND	mg/kg	0.00092	1		08/20/22	08/20/22 13:24	1045
Ethylbenzene	ND	mg/kg	0.00092	1		08/20/22	08/20/22 13:24	1045
2-Hexanone (MBK)	ND	mg/kg	0.00092	1		08/20/22	08/20/22 13:24	1045
Isopropylbenzene	ND	mg/kg	0.00092	1		08/20/22	08/20/22 13:24	1045
Methyl Acetate	ND	mg/kg	0.023	1		08/20/22	08/20/22 13:24	1045
Methylcyclohexane	ND	mg/kg	0.00092	1		08/20/22	08/20/22 13:24	1045
Methylene chloride	ND	mg/kg	0.0046	1		08/20/22	08/20/22 13:24	1045
4-Methyl-2-Pantanone (MIBK)	ND	mg/kg	0.00092	1		08/20/22	08/20/22 13:24	1045
Methyl-t-Butyl Ether	ND	mg/kg	0.00092	1		08/20/22	08/20/22 13:24	1045
Naphthalene	ND	mg/kg	0.00092	1		08/20/22	08/20/22 13:24	1045
Styrene	ND	mg/kg	0.00092	1		08/20/22	08/20/22 13:24	1045
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.00092	1		08/20/22	08/20/22 13:24	1045
Tetrachloroethene	ND	mg/kg	0.00092	1		08/20/22	08/20/22 13:24	1045
Toluene	ND	mg/kg	0.00092	1		08/20/22	08/20/22 13:24	1045
1,2,3-Trichlorobenzene	ND	mg/kg	0.00092	1		08/20/22	08/20/22 13:24	1045
1,2,4-Trichlorobenzene	ND	mg/kg	0.00092	1		08/20/22	08/20/22 13:24	1045
1,1,1-Trichloroethane	ND	mg/kg	0.00092	1		08/20/22	08/20/22 13:24	1045
1,1,2-Trichloroethane	ND	mg/kg	0.00092	1		08/20/22	08/20/22 13:24	1045
Trichloroethene	ND	mg/kg	0.00092	1		08/20/22	08/20/22 13:24	1045
Trichlorofluoromethane	ND	mg/kg	0.00092	1		08/20/22	08/20/22 13:24	1045
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.00092	1		08/20/22	08/20/22 13:24	1045
Vinyl chloride	ND	mg/kg	0.0046	1		08/20/22	08/20/22 13:24	1045
m&p-Xylene	ND	mg/kg	0.0018	1		08/20/22	08/20/22 13:24	1045
o-Xylene	ND	mg/kg	0.00092	1		08/20/22	08/20/22 13:24	1045

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Project Name: Chestertown
PSS Project No.: 22081223

Sample ID: SB7 40' **Date/Time Sampled: 08/11/2022 11:10** **PSS Sample ID: 22081223-003**

Matrix: SOIL **Date/Time Received: 08/12/2022 18:25** **% Solids SM2540G-11: 84.5**

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5035A

Qualifier(s): See Batch 196498 on Case Narrative.

Surrogate(s)	Recovery		Limits				
4-Bromofluorobenzene	101	%	89-111	1	08/20/22	08/20/22 13:24	1045
Dibromofluoromethane	98	%	91-108	1	08/20/22	08/20/22 13:24	1045
Toluene-D8	99	%	93-104	1	08/20/22	08/20/22 13:24	1045

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Project Name: Chestertown
 PSS Project No.: 22081223

Sample ID: SB7 12'	Date/Time Sampled: 08/11/2022 11:20	PSS Sample ID: 22081223-004
Matrix: SOIL	Date/Time Received: 08/12/2022 18:25 % Solids SM2540G-11: 86.9	

Total Petroleum Hydrocarbons - DRO	Analytical Method: SW-846 8015C DRO	Preparation Method: SW3550C
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/kg	3.9		1	08/17/22	08/17/22 22:24	1069
Surrogate(s)	Recovery			Limits				
o-Terphenyl	82	%	39-119		1	08/17/22	08/17/22 22:24	1069

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C GRO	Preparation Method: SW5035A
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	mg/kg	0.099		1	08/18/22	08/18/22 13:47	1045
Surrogate(s)	Recovery			Limits				
a,a,a-Trifluorotoluene	90	%	68-120		1	08/18/22	08/18/22 13:47	1045

TCL Volatile Organic Compounds	Analytical Method: SW-846 8260 D	Preparation Method: SW5035A
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Qualifier(s): See Batch 196498 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	0.16	mg/kg	0.021		1	08/20/22	08/20/22 13:46	1045
Benzene	ND	mg/kg	0.0011		1	08/20/22	08/20/22 13:46	1045
Bromochloromethane	ND	mg/kg	0.0011		1	08/20/22	08/20/22 13:46	1045
Bromodichloromethane	ND	mg/kg	0.0011		1	08/20/22	08/20/22 13:46	1045
Bromoform	ND	mg/kg	0.0011		1	08/20/22	08/20/22 13:46	1045
Bromomethane	ND	mg/kg	0.0011		1	08/20/22	08/20/22 13:46	1045
2-Butanone (MEK)	ND	mg/kg	0.0053		1	08/20/22	08/20/22 13:46	1045
Carbon Disulfide	ND	mg/kg	0.0011		1	08/20/22	08/20/22 13:46	1045
Carbon tetrachloride	ND	mg/kg	0.0011		1	08/20/22	08/20/22 13:46	1045
Chlorobenzene	ND	mg/kg	0.0011		1	08/20/22	08/20/22 13:46	1045
Chloroethane	ND	mg/kg	0.0011		1	08/20/22	08/20/22 13:46	1045
Chloroform	ND	mg/kg	0.0053		1	08/20/22	08/20/22 13:46	1045
Chloromethane	ND	mg/kg	0.0011		1	08/20/22	08/20/22 13:46	1045
Cyclohexane	ND	mg/kg	0.0011		1	08/20/22	08/20/22 13:46	1045
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0011		1	08/20/22	08/20/22 13:46	1045
Dibromochloromethane	ND	mg/kg	0.0011		1	08/20/22	08/20/22 13:46	1045
1,2-Dibromoethane	ND	mg/kg	0.0011		1	08/20/22	08/20/22 13:46	1045
1,2-Dichlorobenzene	ND	mg/kg	0.0011		1	08/20/22	08/20/22 13:46	1045

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Project Name: Chestertown
 PSS Project No.: 22081223

Sample ID: SB7 12'	Date/Time Sampled: 08/11/2022 11:20	PSS Sample ID: 22081223-004
Matrix: SOIL	Date/Time Received: 08/12/2022 18:25	% Solids SM2540G-11: 86.9

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5035A

Qualifier(s): See Batch 196498 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,3-Dichlorobenzene	ND	mg/kg	0.0011	1	1	08/20/22	08/20/22 13:46	1045
1,4-Dichlorobenzene	ND	mg/kg	0.0011	1	1	08/20/22	08/20/22 13:46	1045
Dichlorodifluoromethane	ND	mg/kg	0.0011	1	1	08/20/22	08/20/22 13:46	1045
1,1-Dichloroethane	ND	mg/kg	0.0011	1	1	08/20/22	08/20/22 13:46	1045
1,2-Dichloroethane	ND	mg/kg	0.0011	1	1	08/20/22	08/20/22 13:46	1045
1,1-Dichloroethene	ND	mg/kg	0.0011	1	1	08/20/22	08/20/22 13:46	1045
1,2-Dichloropropane	ND	mg/kg	0.0011	1	1	08/20/22	08/20/22 13:46	1045
cis-1,2-Dichloroethene	ND	mg/kg	0.0011	1	1	08/20/22	08/20/22 13:46	1045
cis-1,3-Dichloropropene	ND	mg/kg	0.0011	1	1	08/20/22	08/20/22 13:46	1045
trans-1,2-Dichloroethene	ND	mg/kg	0.0011	1	1	08/20/22	08/20/22 13:46	1045
trans-1,3-Dichloropropene	ND	mg/kg	0.0011	1	1	08/20/22	08/20/22 13:46	1045
Ethylbenzene	ND	mg/kg	0.0011	1	1	08/20/22	08/20/22 13:46	1045
2-Hexanone (MBK)	ND	mg/kg	0.0011	1	1	08/20/22	08/20/22 13:46	1045
Isopropylbenzene	ND	mg/kg	0.0011	1	1	08/20/22	08/20/22 13:46	1045
Methyl Acetate	ND	mg/kg	0.026	1	1	08/20/22	08/20/22 13:46	1045
Methylcyclohexane	ND	mg/kg	0.0011	1	1	08/20/22	08/20/22 13:46	1045
Methylene chloride	ND	mg/kg	0.0053	1	1	08/20/22	08/20/22 13:46	1045
4-Methyl-2-Pantanone (MIBK)	ND	mg/kg	0.0011	1	1	08/20/22	08/20/22 13:46	1045
Methyl-t-Butyl Ether	ND	mg/kg	0.0011	1	1	08/20/22	08/20/22 13:46	1045
Naphthalene	ND	mg/kg	0.0011	1	1	08/20/22	08/20/22 13:46	1045
Styrene	ND	mg/kg	0.0011	1	1	08/20/22	08/20/22 13:46	1045
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0011	1	1	08/20/22	08/20/22 13:46	1045
Tetrachloroethene	ND	mg/kg	0.0011	1	1	08/20/22	08/20/22 13:46	1045
Toluene	ND	mg/kg	0.0011	1	1	08/20/22	08/20/22 13:46	1045
1,2,3-Trichlorobenzene	ND	mg/kg	0.0011	1	1	08/20/22	08/20/22 13:46	1045
1,2,4-Trichlorobenzene	ND	mg/kg	0.0011	1	1	08/20/22	08/20/22 13:46	1045
1,1,1-Trichloroethane	ND	mg/kg	0.0011	1	1	08/20/22	08/20/22 13:46	1045
1,1,2-Trichloroethane	ND	mg/kg	0.0011	1	1	08/20/22	08/20/22 13:46	1045
Trichloroethene	ND	mg/kg	0.0011	1	1	08/20/22	08/20/22 13:46	1045
Trichlorofluoromethane	ND	mg/kg	0.0011	1	1	08/20/22	08/20/22 13:46	1045
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.0011	1	1	08/20/22	08/20/22 13:46	1045
Vinyl chloride	ND	mg/kg	0.0053	1	1	08/20/22	08/20/22 13:46	1045
m&p-Xylene	ND	mg/kg	0.0021	1	1	08/20/22	08/20/22 13:46	1045
o-Xylene	ND	mg/kg	0.0011	1	1	08/20/22	08/20/22 13:46	1045

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Project Name: Chestertown
PSS Project No.: 22081223

Sample ID: SB7 12' **Date/Time Sampled: 08/11/2022 11:20** **PSS Sample ID: 22081223-004**

Matrix: SOIL **Date/Time Received: 08/12/2022 18:25** **% Solids SM2540G-11: 86.9**

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5035A

Qualifier(s): See Batch 196498 on Case Narrative.

Surrogate(s)	Recovery		Limits				
4-Bromofluorobenzene	102	%	89-111	1	08/20/22	08/20/22 13:46	1045
Dibromofluoromethane	95	%	91-108	1	08/20/22	08/20/22 13:46	1045
Toluene-D8	100	%	93-104	1	08/20/22	08/20/22 13:46	1045

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Project Name: Chestertown
 PSS Project No.: 22081223

Sample ID: SB1 34'	Date/Time Sampled: 08/11/2022 15:30			PSS Sample ID: 22081223-005		
Matrix: SOIL	Date/Time Received: 08/12/2022 18:25			% Solids SM2540G-11: 83.4		

Total Petroleum Hydrocarbons - DRO Analytical Method: SW-846 8015C DRO Preparation Method: SW3550C

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/kg	3.9		1	08/17/22	08/17/22 13:17	1069
Surrogate(s)	Recovery			Limits				
o-Terphenyl	91	%	39-119		1	08/17/22	08/17/22 13:17	1069

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C GRO Preparation Method: SW5035A

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	mg/kg	0.10		1	08/18/22	08/18/22 14:11	1045
Surrogate(s)	Recovery			Limits				
a,a,a-Trifluorotoluene	77	%	68-120		1	08/18/22	08/18/22 14:11	1045

TCL Volatile Organic Compounds Analytical Method: SW-846 8260 D Preparation Method: SW5035A

Qualifier(s): See Batch 196498 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	mg/kg	0.018		1	08/20/22	08/20/22 14:09	1045
Benzene	ND	mg/kg	0.00091		1	08/20/22	08/20/22 14:09	1045
Bromochloromethane	ND	mg/kg	0.00091		1	08/20/22	08/20/22 14:09	1045
Bromodichloromethane	ND	mg/kg	0.00091		1	08/20/22	08/20/22 14:09	1045
Bromoform	ND	mg/kg	0.00091		1	08/20/22	08/20/22 14:09	1045
Bromomethane	ND	mg/kg	0.00091		1	08/20/22	08/20/22 14:09	1045
2-Butanone (MEK)	ND	mg/kg	0.0046		1	08/20/22	08/20/22 14:09	1045
Carbon Disulfide	ND	mg/kg	0.00091		1	08/20/22	08/20/22 14:09	1045
Carbon tetrachloride	ND	mg/kg	0.00091		1	08/20/22	08/20/22 14:09	1045
Chlorobenzene	ND	mg/kg	0.00091		1	08/20/22	08/20/22 14:09	1045
Chloroethane	ND	mg/kg	0.00091		1	08/20/22	08/20/22 14:09	1045
Chloroform	ND	mg/kg	0.0046		1	08/20/22	08/20/22 14:09	1045
Chloromethane	ND	mg/kg	0.00091		1	08/20/22	08/20/22 14:09	1045
Cyclohexane	ND	mg/kg	0.00091		1	08/20/22	08/20/22 14:09	1045
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.00091		1	08/20/22	08/20/22 14:09	1045
Dibromochloromethane	ND	mg/kg	0.00091		1	08/20/22	08/20/22 14:09	1045
1,2-Dibromoethane	ND	mg/kg	0.00091		1	08/20/22	08/20/22 14:09	1045
1,2-Dichlorobenzene	ND	mg/kg	0.00091		1	08/20/22	08/20/22 14:09	1045

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Project Name: Chestertown
 PSS Project No.: 22081223

Sample ID: SB1 34'	Date/Time Sampled: 08/11/2022 15:30	PSS Sample ID: 22081223-005
Matrix: SOIL	Date/Time Received: 08/12/2022 18:25	% Solids SM2540G-11: 83.4

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5035A

Qualifier(s): See Batch 196498 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,3-Dichlorobenzene	ND	mg/kg	0.00091	1	1	08/20/22	08/20/22 14:09	1045
1,4-Dichlorobenzene	ND	mg/kg	0.00091	1	1	08/20/22	08/20/22 14:09	1045
Dichlorodifluoromethane	ND	mg/kg	0.00091	1	1	08/20/22	08/20/22 14:09	1045
1,1-Dichloroethane	ND	mg/kg	0.00091	1	1	08/20/22	08/20/22 14:09	1045
1,2-Dichloroethane	ND	mg/kg	0.00091	1	1	08/20/22	08/20/22 14:09	1045
1,1-Dichloroethene	ND	mg/kg	0.00091	1	1	08/20/22	08/20/22 14:09	1045
1,2-Dichloropropane	ND	mg/kg	0.00091	1	1	08/20/22	08/20/22 14:09	1045
cis-1,2-Dichloroethene	ND	mg/kg	0.00091	1	1	08/20/22	08/20/22 14:09	1045
cis-1,3-Dichloropropene	ND	mg/kg	0.00091	1	1	08/20/22	08/20/22 14:09	1045
trans-1,2-Dichloroethene	ND	mg/kg	0.00091	1	1	08/20/22	08/20/22 14:09	1045
trans-1,3-Dichloropropene	ND	mg/kg	0.00091	1	1	08/20/22	08/20/22 14:09	1045
Ethylbenzene	ND	mg/kg	0.00091	1	1	08/20/22	08/20/22 14:09	1045
2-Hexanone (MBK)	ND	mg/kg	0.00091	1	1	08/20/22	08/20/22 14:09	1045
Isopropylbenzene	ND	mg/kg	0.00091	1	1	08/20/22	08/20/22 14:09	1045
Methyl Acetate	ND	mg/kg	0.023	1	1	08/20/22	08/20/22 14:09	1045
Methylcyclohexane	ND	mg/kg	0.00091	1	1	08/20/22	08/20/22 14:09	1045
Methylene chloride	ND	mg/kg	0.0046	1	1	08/20/22	08/20/22 14:09	1045
4-Methyl-2-Pantanone (MIBK)	ND	mg/kg	0.00091	1	1	08/20/22	08/20/22 14:09	1045
Methyl-t-Butyl Ether	ND	mg/kg	0.00091	1	1	08/20/22	08/20/22 14:09	1045
Naphthalene	ND	mg/kg	0.00091	1	1	08/20/22	08/20/22 14:09	1045
Styrene	ND	mg/kg	0.00091	1	1	08/20/22	08/20/22 14:09	1045
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.00091	1	1	08/20/22	08/20/22 14:09	1045
Tetrachloroethene	ND	mg/kg	0.00091	1	1	08/20/22	08/20/22 14:09	1045
Toluene	ND	mg/kg	0.00091	1	1	08/20/22	08/20/22 14:09	1045
1,2,3-Trichlorobenzene	ND	mg/kg	0.00091	1	1	08/20/22	08/20/22 14:09	1045
1,2,4-Trichlorobenzene	ND	mg/kg	0.00091	1	1	08/20/22	08/20/22 14:09	1045
1,1,1-Trichloroethane	ND	mg/kg	0.00091	1	1	08/20/22	08/20/22 14:09	1045
1,1,2-Trichloroethane	ND	mg/kg	0.00091	1	1	08/20/22	08/20/22 14:09	1045
Trichloroethene	ND	mg/kg	0.00091	1	1	08/20/22	08/20/22 14:09	1045
Trichlorofluoromethane	ND	mg/kg	0.00091	1	1	08/20/22	08/20/22 14:09	1045
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.00091	1	1	08/20/22	08/20/22 14:09	1045
Vinyl chloride	ND	mg/kg	0.0046	1	1	08/20/22	08/20/22 14:09	1045
m&p-Xylene	ND	mg/kg	0.0018	1	1	08/20/22	08/20/22 14:09	1045
o-Xylene	ND	mg/kg	0.00091	1	1	08/20/22	08/20/22 14:09	1045

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Project Name: Chestertown
PSS Project No.: 22081223

Sample ID: SB1 34' **Date/Time Sampled: 08/11/2022 15:30** **PSS Sample ID: 22081223-005**

Matrix: SOIL **Date/Time Received: 08/12/2022 18:25** **% Solids SM2540G-11: 83.4**

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5035A

Qualifier(s): See Batch 196498 on Case Narrative.

Surrogate(s)	Recovery		Limits				
4-Bromofluorobenzene	102	%	89-111	1	08/20/22	08/20/22 14:09	1045
Dibromofluoromethane	94	%	91-108	1	08/20/22	08/20/22 14:09	1045
Toluene-D8	101	%	93-104	1	08/20/22	08/20/22 14:09	1045

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Project Name: Chestertown
 PSS Project No.: 22081223

Sample ID: SB1 23'	Date/Time Sampled: 08/11/2022 15:40			PSS Sample ID: 22081223-006		
Matrix: SOIL	Date/Time Received: 08/12/2022 18:25			% Solids SM2540G-11: 86.7		

Total Petroleum Hydrocarbons - DRO Analytical Method: SW-846 8015C DRO Preparation Method: SW3550C

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/kg	3.8	1		08/17/22	08/17/22 22:24	1069
Surrogate(s)	Recovery		Limits					
o-Terphenyl	74	%	39-119	1		08/17/22	08/17/22 22:24	1069

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C GRO Preparation Method: SW5035A

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	mg/kg	0.10	1		08/18/22	08/18/22 14:36	1045
Surrogate(s)	Recovery		Limits					
a,a,a-Trifluorotoluene	81	%	68-120	1		08/18/22	08/18/22 14:36	1045

TCL Volatile Organic Compounds Analytical Method: SW-846 8260 D Preparation Method: SW5035A

Qualifier(s): See Batch 196498 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	mg/kg	0.018	1		08/20/22	08/20/22 14:31	1045
Benzene	ND	mg/kg	0.00090	1		08/20/22	08/20/22 14:31	1045
Bromochloromethane	ND	mg/kg	0.00090	1		08/20/22	08/20/22 14:31	1045
Bromodichloromethane	ND	mg/kg	0.00090	1		08/20/22	08/20/22 14:31	1045
Bromoform	ND	mg/kg	0.00090	1		08/20/22	08/20/22 14:31	1045
Bromomethane	ND	mg/kg	0.00090	1		08/20/22	08/20/22 14:31	1045
2-Butanone (MEK)	ND	mg/kg	0.0045	1		08/20/22	08/20/22 14:31	1045
Carbon Disulfide	ND	mg/kg	0.00090	1		08/20/22	08/20/22 14:31	1045
Carbon tetrachloride	ND	mg/kg	0.00090	1		08/20/22	08/20/22 14:31	1045
Chlorobenzene	ND	mg/kg	0.00090	1		08/20/22	08/20/22 14:31	1045
Chloroethane	ND	mg/kg	0.00090	1		08/20/22	08/20/22 14:31	1045
Chloroform	ND	mg/kg	0.0045	1		08/20/22	08/20/22 14:31	1045
Chloromethane	ND	mg/kg	0.00090	1		08/20/22	08/20/22 14:31	1045
Cyclohexane	ND	mg/kg	0.00090	1		08/20/22	08/20/22 14:31	1045
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.00090	1		08/20/22	08/20/22 14:31	1045
Dibromochloromethane	ND	mg/kg	0.00090	1		08/20/22	08/20/22 14:31	1045
1,2-Dibromoethane	ND	mg/kg	0.00090	1		08/20/22	08/20/22 14:31	1045
1,2-Dichlorobenzene	ND	mg/kg	0.00090	1		08/20/22	08/20/22 14:31	1045

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Project Name: Chestertown
 PSS Project No.: 22081223

Sample ID: SB1 23'	Date/Time Sampled: 08/11/2022 15:40	PSS Sample ID: 22081223-006
Matrix: SOIL	Date/Time Received: 08/12/2022 18:25	% Solids SM2540G-11: 86.7

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5035A

Qualifier(s): See Batch 196498 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,3-Dichlorobenzene	ND	mg/kg	0.00090	1	1	08/20/22	08/20/22 14:31	1045
1,4-Dichlorobenzene	ND	mg/kg	0.00090	1	1	08/20/22	08/20/22 14:31	1045
Dichlorodifluoromethane	ND	mg/kg	0.00090	1	1	08/20/22	08/20/22 14:31	1045
1,1-Dichloroethane	ND	mg/kg	0.00090	1	1	08/20/22	08/20/22 14:31	1045
1,2-Dichloroethane	ND	mg/kg	0.00090	1	1	08/20/22	08/20/22 14:31	1045
1,1-Dichloroethene	ND	mg/kg	0.00090	1	1	08/20/22	08/20/22 14:31	1045
cis-1,2-Dichloroethene	ND	mg/kg	0.00090	1	1	08/20/22	08/20/22 14:31	1045
1,2-Dichloropropane	ND	mg/kg	0.00090	1	1	08/20/22	08/20/22 14:31	1045
cis-1,3-Dichloropropene	ND	mg/kg	0.00090	1	1	08/20/22	08/20/22 14:31	1045
trans-1,2-Dichloroethene	ND	mg/kg	0.00090	1	1	08/20/22	08/20/22 14:31	1045
trans-1,3-Dichloropropene	ND	mg/kg	0.00090	1	1	08/20/22	08/20/22 14:31	1045
Ethylbenzene	ND	mg/kg	0.00090	1	1	08/20/22	08/20/22 14:31	1045
2-Hexanone (MBK)	ND	mg/kg	0.00090	1	1	08/20/22	08/20/22 14:31	1045
Isopropylbenzene	ND	mg/kg	0.00090	1	1	08/20/22	08/20/22 14:31	1045
Methyl Acetate	ND	mg/kg	0.023	1	1	08/20/22	08/20/22 14:31	1045
Methylcyclohexane	ND	mg/kg	0.00090	1	1	08/20/22	08/20/22 14:31	1045
Methylene chloride	ND	mg/kg	0.0045	1	1	08/20/22	08/20/22 14:31	1045
4-Methyl-2-Pantanone (MIBK)	ND	mg/kg	0.00090	1	1	08/20/22	08/20/22 14:31	1045
Methyl-t-Butyl Ether	ND	mg/kg	0.00090	1	1	08/20/22	08/20/22 14:31	1045
Naphthalene	ND	mg/kg	0.00090	1	1	08/20/22	08/20/22 14:31	1045
Styrene	ND	mg/kg	0.00090	1	1	08/20/22	08/20/22 14:31	1045
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.00090	1	1	08/20/22	08/20/22 14:31	1045
Tetrachloroethene	ND	mg/kg	0.00090	1	1	08/20/22	08/20/22 14:31	1045
Toluene	ND	mg/kg	0.00090	1	1	08/20/22	08/20/22 14:31	1045
1,2,3-Trichlorobenzene	ND	mg/kg	0.00090	1	1	08/20/22	08/20/22 14:31	1045
1,2,4-Trichlorobenzene	ND	mg/kg	0.00090	1	1	08/20/22	08/20/22 14:31	1045
1,1,1-Trichloroethane	ND	mg/kg	0.00090	1	1	08/20/22	08/20/22 14:31	1045
1,1,2-Trichloroethane	ND	mg/kg	0.00090	1	1	08/20/22	08/20/22 14:31	1045
Trichloroethene	ND	mg/kg	0.00090	1	1	08/20/22	08/20/22 14:31	1045
Trichlorofluoromethane	ND	mg/kg	0.00090	1	1	08/20/22	08/20/22 14:31	1045
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.00090	1	1	08/20/22	08/20/22 14:31	1045
Vinyl chloride	ND	mg/kg	0.0045	1	1	08/20/22	08/20/22 14:31	1045
m&p-Xylene	ND	mg/kg	0.0018	1	1	08/20/22	08/20/22 14:31	1045
o-Xylene	ND	mg/kg	0.00090	1	1	08/20/22	08/20/22 14:31	1045

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Project Name: Chestertown
PSS Project No.: 22081223

Sample ID: SB1 23' **Date/Time Sampled: 08/11/2022 15:40** **PSS Sample ID: 22081223-006**

Matrix: SOIL **Date/Time Received: 08/12/2022 18:25** **% Solids SM2540G-11: 86.7**

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5035A

Qualifier(s): See Batch 196498 on Case Narrative.

Surrogate(s)	Recovery	Limits					
4-Bromofluorobenzene	100 %	89-111	1	08/20/22	08/20/22 14:31	1045	
Dibromofluoromethane	97 %	91-108	1	08/20/22	08/20/22 14:31	1045	
Toluene-D8	101 %	93-104	1	08/20/22	08/20/22 14:31	1045	

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Project Name: Chestertown
 PSS Project No.: 22081223

Sample ID: SB2 32'	Date/Time Sampled: 08/11/2022 13:40			PSS Sample ID: 22081223-007		
Matrix: SOIL	Date/Time Received: 08/12/2022 18:25			% Solids SM2540G-11: 87.7		

Total Petroleum Hydrocarbons - DRO Analytical Method: SW-846 8015C DRO Preparation Method: SW3550C

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/kg	3.8	1		08/17/22	08/17/22 22:49	1069
Surrogate(s)	Recovery		Limits					
o-Terphenyl	84	%	39-119	1		08/17/22	08/17/22 22:49	1069

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C GRO Preparation Method: SW5035A

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	mg/kg	0.10	1		08/18/22	08/18/22 15:00	1045
Surrogate(s)	Recovery		Limits					
a,a,a-Trifluorotoluene	80	%	68-120	1		08/18/22	08/18/22 15:00	1045

TCL Volatile Organic Compounds Analytical Method: SW-846 8260 D Preparation Method: SW5035A

Qualifier(s): See Batch 196498 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	mg/kg	0.018	1		08/20/22	08/20/22 14:53	1045
Benzene	ND	mg/kg	0.00088	1		08/20/22	08/20/22 14:53	1045
Bromochloromethane	ND	mg/kg	0.00088	1		08/20/22	08/20/22 14:53	1045
Bromodichloromethane	ND	mg/kg	0.00088	1		08/20/22	08/20/22 14:53	1045
Bromoform	ND	mg/kg	0.00088	1		08/20/22	08/20/22 14:53	1045
Bromomethane	ND	mg/kg	0.00088	1		08/20/22	08/20/22 14:53	1045
2-Butanone (MEK)	ND	mg/kg	0.0044	1		08/20/22	08/20/22 14:53	1045
Carbon Disulfide	ND	mg/kg	0.00088	1		08/20/22	08/20/22 14:53	1045
Carbon tetrachloride	ND	mg/kg	0.00088	1		08/20/22	08/20/22 14:53	1045
Chlorobenzene	ND	mg/kg	0.00088	1		08/20/22	08/20/22 14:53	1045
Chloroethane	ND	mg/kg	0.00088	1		08/20/22	08/20/22 14:53	1045
Chloroform	ND	mg/kg	0.0044	1		08/20/22	08/20/22 14:53	1045
Chloromethane	ND	mg/kg	0.00088	1		08/20/22	08/20/22 14:53	1045
Cyclohexane	ND	mg/kg	0.00088	1		08/20/22	08/20/22 14:53	1045
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.00088	1		08/20/22	08/20/22 14:53	1045
Dibromochloromethane	ND	mg/kg	0.00088	1		08/20/22	08/20/22 14:53	1045
1,2-Dibromoethane	ND	mg/kg	0.00088	1		08/20/22	08/20/22 14:53	1045
1,2-Dichlorobenzene	ND	mg/kg	0.00088	1		08/20/22	08/20/22 14:53	1045

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Project Name: Chestertown
 PSS Project No.: 22081223

Sample ID: SB2 32'	Date/Time Sampled: 08/11/2022 13:40	PSS Sample ID: 22081223-007
Matrix: SOIL	Date/Time Received: 08/12/2022 18:25 % Solids SM2540G-11: 87.7	

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5035A

Qualifier(s): See Batch 196498 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,3-Dichlorobenzene	ND	mg/kg	0.00088	1	1	08/20/22	08/20/22 14:53	1045
1,4-Dichlorobenzene	ND	mg/kg	0.00088	1	1	08/20/22	08/20/22 14:53	1045
Dichlorodifluoromethane	ND	mg/kg	0.00088	1	1	08/20/22	08/20/22 14:53	1045
1,1-Dichloroethane	ND	mg/kg	0.00088	1	1	08/20/22	08/20/22 14:53	1045
1,2-Dichloroethane	ND	mg/kg	0.00088	1	1	08/20/22	08/20/22 14:53	1045
1,1-Dichloroethene	ND	mg/kg	0.00088	1	1	08/20/22	08/20/22 14:53	1045
cis-1,2-Dichloroethene	ND	mg/kg	0.00088	1	1	08/20/22	08/20/22 14:53	1045
1,2-Dichloropropane	ND	mg/kg	0.00088	1	1	08/20/22	08/20/22 14:53	1045
cis-1,3-Dichloropropene	ND	mg/kg	0.00088	1	1	08/20/22	08/20/22 14:53	1045
trans-1,2-Dichloroethene	ND	mg/kg	0.00088	1	1	08/20/22	08/20/22 14:53	1045
trans-1,3-Dichloropropene	ND	mg/kg	0.00088	1	1	08/20/22	08/20/22 14:53	1045
Ethylbenzene	ND	mg/kg	0.00088	1	1	08/20/22	08/20/22 14:53	1045
2-Hexanone (MBK)	ND	mg/kg	0.00088	1	1	08/20/22	08/20/22 14:53	1045
Isopropylbenzene	ND	mg/kg	0.00088	1	1	08/20/22	08/20/22 14:53	1045
Methyl Acetate	ND	mg/kg	0.022	1	1	08/20/22	08/20/22 14:53	1045
Methylcyclohexane	ND	mg/kg	0.00088	1	1	08/20/22	08/20/22 14:53	1045
Methylene chloride	ND	mg/kg	0.0044	1	1	08/20/22	08/20/22 14:53	1045
4-Methyl-2-Pantanone (MIBK)	ND	mg/kg	0.00088	1	1	08/20/22	08/20/22 14:53	1045
Methyl-t-Butyl Ether	ND	mg/kg	0.00088	1	1	08/20/22	08/20/22 14:53	1045
Naphthalene	ND	mg/kg	0.00088	1	1	08/20/22	08/20/22 14:53	1045
Styrene	ND	mg/kg	0.00088	1	1	08/20/22	08/20/22 14:53	1045
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.00088	1	1	08/20/22	08/20/22 14:53	1045
Tetrachloroethene	ND	mg/kg	0.00088	1	1	08/20/22	08/20/22 14:53	1045
Toluene	ND	mg/kg	0.00088	1	1	08/20/22	08/20/22 14:53	1045
1,2,3-Trichlorobenzene	ND	mg/kg	0.00088	1	1	08/20/22	08/20/22 14:53	1045
1,2,4-Trichlorobenzene	ND	mg/kg	0.00088	1	1	08/20/22	08/20/22 14:53	1045
1,1,1-Trichloroethane	ND	mg/kg	0.00088	1	1	08/20/22	08/20/22 14:53	1045
1,1,2-Trichloroethane	ND	mg/kg	0.00088	1	1	08/20/22	08/20/22 14:53	1045
Trichloroethene	ND	mg/kg	0.00088	1	1	08/20/22	08/20/22 14:53	1045
Trichlorofluoromethane	ND	mg/kg	0.00088	1	1	08/20/22	08/20/22 14:53	1045
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.00088	1	1	08/20/22	08/20/22 14:53	1045
Vinyl chloride	ND	mg/kg	0.0044	1	1	08/20/22	08/20/22 14:53	1045
m&p-Xylene	ND	mg/kg	0.0018	1	1	08/20/22	08/20/22 14:53	1045
o-Xylene	ND	mg/kg	0.00088	1	1	08/20/22	08/20/22 14:53	1045

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Project Name: Chestertown
PSS Project No.: 22081223

Sample ID: SB2 32' **Date/Time Sampled: 08/11/2022 13:40** **PSS Sample ID: 22081223-007**

Matrix: SOIL **Date/Time Received: 08/12/2022 18:25** **% Solids SM2540G-11: 87.7**

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5035A

Qualifier(s): See Batch 196498 on Case Narrative.

Surrogate(s)	Recovery	Limits					
4-Bromofluorobenzene	101 %	89-111	1	08/20/22	08/20/22 14:53	1045	
Dibromofluoromethane	100 %	91-108	1	08/20/22	08/20/22 14:53	1045	
Toluene-D8	101 %	93-104	1	08/20/22	08/20/22 14:53	1045	

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Project Name: Chestertown
 PSS Project No.: 22081223

Sample ID: SB2 41'	Date/Time Sampled: 08/11/2022 13:50			PSS Sample ID: 22081223-008		
Matrix: SOIL	Date/Time Received: 08/12/2022 18:25			% Solids SM2540G-11: 83.1		

Total Petroleum Hydrocarbons - DRO Analytical Method: SW-846 8015C DRO Preparation Method: SW3550C

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/kg	4.0	1		08/17/22	08/17/22 22:49	1069
Surrogate(s)	Recovery		Limits					
o-Terphenyl	78	%	39-119	1		08/17/22	08/17/22 22:49	1069

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C GRO Preparation Method: SW5035A

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	mg/kg	0.096	1		08/18/22	08/18/22 15:25	1045
Surrogate(s)	Recovery		Limits					
a,a,a-Trifluorotoluene	79	%	68-120	1		08/18/22	08/18/22 15:25	1045

TCL Volatile Organic Compounds Analytical Method: SW-846 8260 D Preparation Method: SW5035A

Qualifier(s): See Batch 196498 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	mg/kg	0.017	1		08/20/22	08/20/22 15:16	1045
Benzene	ND	mg/kg	0.00085	1		08/20/22	08/20/22 15:16	1045
Bromochloromethane	ND	mg/kg	0.00085	1		08/20/22	08/20/22 15:16	1045
Bromodichloromethane	ND	mg/kg	0.00085	1		08/20/22	08/20/22 15:16	1045
Bromoform	ND	mg/kg	0.00085	1		08/20/22	08/20/22 15:16	1045
Bromomethane	ND	mg/kg	0.00085	1		08/20/22	08/20/22 15:16	1045
2-Butanone (MEK)	ND	mg/kg	0.0042	1		08/20/22	08/20/22 15:16	1045
Carbon Disulfide	ND	mg/kg	0.00085	1		08/20/22	08/20/22 15:16	1045
Carbon tetrachloride	ND	mg/kg	0.00085	1		08/20/22	08/20/22 15:16	1045
Chlorobenzene	ND	mg/kg	0.00085	1		08/20/22	08/20/22 15:16	1045
Chloroethane	ND	mg/kg	0.00085	1		08/20/22	08/20/22 15:16	1045
Chloroform	ND	mg/kg	0.0042	1		08/20/22	08/20/22 15:16	1045
Chloromethane	ND	mg/kg	0.00085	1		08/20/22	08/20/22 15:16	1045
Cyclohexane	ND	mg/kg	0.00085	1		08/20/22	08/20/22 15:16	1045
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.00085	1		08/20/22	08/20/22 15:16	1045
Dibromochloromethane	ND	mg/kg	0.00085	1		08/20/22	08/20/22 15:16	1045
1,2-Dibromoethane	ND	mg/kg	0.00085	1		08/20/22	08/20/22 15:16	1045
1,2-Dichlorobenzene	ND	mg/kg	0.00085	1		08/20/22	08/20/22 15:16	1045

Certificate of Analysis

Project Name: Chestertown
 PSS Project No.: 22081223

Sample ID: SB2 41'	Date/Time Sampled: 08/11/2022 13:50	PSS Sample ID: 22081223-008
Matrix: SOIL	Date/Time Received: 08/12/2022 18:25 % Solids SM2540G-11: 83.1	

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5035A

Qualifier(s): See Batch 196498 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,3-Dichlorobenzene	ND	mg/kg	0.00085	1		08/20/22	08/20/22 15:16	1045
1,4-Dichlorobenzene	ND	mg/kg	0.00085	1		08/20/22	08/20/22 15:16	1045
Dichlorodifluoromethane	ND	mg/kg	0.00085	1		08/20/22	08/20/22 15:16	1045
1,1-Dichloroethane	ND	mg/kg	0.00085	1		08/20/22	08/20/22 15:16	1045
1,2-Dichloroethane	ND	mg/kg	0.00085	1		08/20/22	08/20/22 15:16	1045
1,1-Dichloroethene	ND	mg/kg	0.00085	1		08/20/22	08/20/22 15:16	1045
cis-1,2-Dichloroethene	ND	mg/kg	0.00085	1		08/20/22	08/20/22 15:16	1045
1,2-Dichloropropane	ND	mg/kg	0.00085	1		08/20/22	08/20/22 15:16	1045
cis-1,3-Dichloropropene	ND	mg/kg	0.00085	1		08/20/22	08/20/22 15:16	1045
trans-1,2-Dichloroethene	ND	mg/kg	0.00085	1		08/20/22	08/20/22 15:16	1045
trans-1,3-Dichloropropene	ND	mg/kg	0.00085	1		08/20/22	08/20/22 15:16	1045
Ethylbenzene	ND	mg/kg	0.00085	1		08/20/22	08/20/22 15:16	1045
2-Hexanone (MBK)	ND	mg/kg	0.00085	1		08/20/22	08/20/22 15:16	1045
Isopropylbenzene	ND	mg/kg	0.00085	1		08/20/22	08/20/22 15:16	1045
Methyl Acetate	ND	mg/kg	0.021	1		08/20/22	08/20/22 15:16	1045
Methylcyclohexane	ND	mg/kg	0.00085	1		08/20/22	08/20/22 15:16	1045
Methylene chloride	ND	mg/kg	0.0042	1		08/20/22	08/20/22 15:16	1045
4-Methyl-2-Pantanone (MIBK)	ND	mg/kg	0.00085	1		08/20/22	08/20/22 15:16	1045
Methyl-t-Butyl Ether	ND	mg/kg	0.00085	1		08/20/22	08/20/22 15:16	1045
Naphthalene	ND	mg/kg	0.00085	1		08/20/22	08/20/22 15:16	1045
Styrene	ND	mg/kg	0.00085	1		08/20/22	08/20/22 15:16	1045
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.00085	1		08/20/22	08/20/22 15:16	1045
Tetrachloroethene	ND	mg/kg	0.00085	1		08/20/22	08/20/22 15:16	1045
Toluene	ND	mg/kg	0.00085	1		08/20/22	08/20/22 15:16	1045
1,2,3-Trichlorobenzene	ND	mg/kg	0.00085	1		08/20/22	08/20/22 15:16	1045
1,2,4-Trichlorobenzene	ND	mg/kg	0.00085	1		08/20/22	08/20/22 15:16	1045
1,1,1-Trichloroethane	ND	mg/kg	0.00085	1		08/20/22	08/20/22 15:16	1045
1,1,2-Trichloroethane	ND	mg/kg	0.00085	1		08/20/22	08/20/22 15:16	1045
Trichloroethene	ND	mg/kg	0.00085	1		08/20/22	08/20/22 15:16	1045
Trichlorofluoromethane	ND	mg/kg	0.00085	1		08/20/22	08/20/22 15:16	1045
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.00085	1		08/20/22	08/20/22 15:16	1045
Vinyl chloride	ND	mg/kg	0.0042	1		08/20/22	08/20/22 15:16	1045
m&p-Xylene	ND	mg/kg	0.0017	1		08/20/22	08/20/22 15:16	1045
o-Xylene	ND	mg/kg	0.00085	1		08/20/22	08/20/22 15:16	1045

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Project Name: Chestertown
PSS Project No.: 22081223

Sample ID: SB2 41' **Date/Time Sampled: 08/11/2022 13:50** **PSS Sample ID: 22081223-008**

Matrix: SOIL **Date/Time Received: 08/12/2022 18:25** **% Solids SM2540G-11: 83.1**

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5035A

Qualifier(s): See Batch 196498 on Case Narrative.

Surrogate(s)	Recovery	Limits					
4-Bromofluorobenzene	102 %	89-111	1	08/20/22	08/20/22 15:16	1045	
Dibromofluoromethane	101 %	91-108	1	08/20/22	08/20/22 15:16	1045	
Toluene-D8	101 %	93-104	1	08/20/22	08/20/22 15:16	1045	

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Project Name: Chestertown
 PSS Project No.: 22081223

Sample ID: SB3 31'	Date/Time Sampled: 08/12/2022 09:00	PSS Sample ID: 22081223-009
Matrix: SOIL	Date/Time Received: 08/12/2022 18:25	% Solids SM2540G-11: 84.7

Total Petroleum Hydrocarbons - DRO Analytical Method: SW-846 8015C DRO Preparation Method: SW3550C

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/kg	4.0	1		08/17/22	08/17/22 23:14	1069
Surrogate(s)	Recovery		Limits					
o-Terphenyl	91	%	39-119	1		08/17/22	08/17/22 23:14	1069

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C GRO Preparation Method: SW5035A

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	mg/kg	0.11	1		08/18/22	08/18/22 15:49	1045
Surrogate(s)	Recovery		Limits					
a,a,a-Trifluorotoluene	78	%	68-120	1		08/18/22	08/18/22 15:49	1045

TCL Volatile Organic Compounds Analytical Method: SW-846 8260 D Preparation Method: SW5035A

Qualifier(s): See Batch 196498 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	mg/kg	0.022	1		08/20/22	08/20/22 15:38	1045
Benzene	ND	mg/kg	0.0011	1		08/20/22	08/20/22 15:38	1045
Bromochloromethane	ND	mg/kg	0.0011	1		08/20/22	08/20/22 15:38	1045
Bromodichloromethane	ND	mg/kg	0.0011	1		08/20/22	08/20/22 15:38	1045
Bromoform	ND	mg/kg	0.0011	1		08/20/22	08/20/22 15:38	1045
Bromomethane	ND	mg/kg	0.0011	1		08/20/22	08/20/22 15:38	1045
2-Butanone (MEK)	ND	mg/kg	0.0055	1		08/20/22	08/20/22 15:38	1045
Carbon Disulfide	ND	mg/kg	0.0011	1		08/20/22	08/20/22 15:38	1045
Carbon tetrachloride	ND	mg/kg	0.0011	1		08/20/22	08/20/22 15:38	1045
Chlorobenzene	ND	mg/kg	0.0011	1		08/20/22	08/20/22 15:38	1045
Chloroethane	ND	mg/kg	0.0011	1		08/20/22	08/20/22 15:38	1045
Chloroform	ND	mg/kg	0.0055	1		08/20/22	08/20/22 15:38	1045
Chloromethane	ND	mg/kg	0.0011	1		08/20/22	08/20/22 15:38	1045
Cyclohexane	ND	mg/kg	0.0011	1		08/20/22	08/20/22 15:38	1045
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0011	1		08/20/22	08/20/22 15:38	1045
Dibromochloromethane	ND	mg/kg	0.0011	1		08/20/22	08/20/22 15:38	1045
1,2-Dibromoethane	ND	mg/kg	0.0011	1		08/20/22	08/20/22 15:38	1045
1,2-Dichlorobenzene	ND	mg/kg	0.0011	1		08/20/22	08/20/22 15:38	1045

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Project Name: Chestertown
 PSS Project No.: 22081223

Sample ID: SB3 31' **Date/Time Sampled: 08/12/2022 09:00** **PSS Sample ID: 22081223-009**

Matrix: SOIL **Date/Time Received: 08/12/2022 18:25** **% Solids SM2540G-11: 84.7**

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5035A

Qualifier(s): See Batch 196498 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,3-Dichlorobenzene	ND	mg/kg	0.0011	1		08/20/22	08/20/22 15:38	1045
1,4-Dichlorobenzene	ND	mg/kg	0.0011	1		08/20/22	08/20/22 15:38	1045
Dichlorodifluoromethane	ND	mg/kg	0.0011	1		08/20/22	08/20/22 15:38	1045
1,1-Dichloroethane	ND	mg/kg	0.0011	1		08/20/22	08/20/22 15:38	1045
1,2-Dichloroethane	ND	mg/kg	0.0011	1		08/20/22	08/20/22 15:38	1045
1,1-Dichloroethene	ND	mg/kg	0.0011	1		08/20/22	08/20/22 15:38	1045
1,2-Dichloropropane	ND	mg/kg	0.0011	1		08/20/22	08/20/22 15:38	1045
cis-1,2-Dichloroethene	ND	mg/kg	0.0011	1		08/20/22	08/20/22 15:38	1045
cis-1,3-Dichloropropene	ND	mg/kg	0.0011	1		08/20/22	08/20/22 15:38	1045
trans-1,2-Dichloroethene	ND	mg/kg	0.0011	1		08/20/22	08/20/22 15:38	1045
trans-1,3-Dichloropropene	ND	mg/kg	0.0011	1		08/20/22	08/20/22 15:38	1045
Ethylbenzene	ND	mg/kg	0.0011	1		08/20/22	08/20/22 15:38	1045
2-Hexanone (MBK)	ND	mg/kg	0.0011	1		08/20/22	08/20/22 15:38	1045
Isopropylbenzene	ND	mg/kg	0.0011	1		08/20/22	08/20/22 15:38	1045
Methyl Acetate	ND	mg/kg	0.028	1		08/20/22	08/20/22 15:38	1045
Methylcyclohexane	ND	mg/kg	0.0011	1		08/20/22	08/20/22 15:38	1045
Methylene chloride	ND	mg/kg	0.0055	1		08/20/22	08/20/22 15:38	1045
4-Methyl-2-Pantanone (MIBK)	ND	mg/kg	0.0011	1		08/20/22	08/20/22 15:38	1045
Methyl-t-Butyl Ether	ND	mg/kg	0.0011	1		08/20/22	08/20/22 15:38	1045
Naphthalene	ND	mg/kg	0.0011	1		08/20/22	08/20/22 15:38	1045
Styrene	ND	mg/kg	0.0011	1		08/20/22	08/20/22 15:38	1045
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0011	1		08/20/22	08/20/22 15:38	1045
Tetrachloroethene	ND	mg/kg	0.0011	1		08/20/22	08/20/22 15:38	1045
Toluene	ND	mg/kg	0.0011	1		08/20/22	08/20/22 15:38	1045
1,2,3-Trichlorobenzene	ND	mg/kg	0.0011	1		08/20/22	08/20/22 15:38	1045
1,2,4-Trichlorobenzene	ND	mg/kg	0.0011	1		08/20/22	08/20/22 15:38	1045
1,1,1-Trichloroethane	ND	mg/kg	0.0011	1		08/20/22	08/20/22 15:38	1045
1,1,2-Trichloroethane	ND	mg/kg	0.0011	1		08/20/22	08/20/22 15:38	1045
Trichloroethene	ND	mg/kg	0.0011	1		08/20/22	08/20/22 15:38	1045
Trichlorofluoromethane	ND	mg/kg	0.0011	1		08/20/22	08/20/22 15:38	1045
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.0011	1		08/20/22	08/20/22 15:38	1045
Vinyl chloride	ND	mg/kg	0.0055	1		08/20/22	08/20/22 15:38	1045
m&p-Xylene	ND	mg/kg	0.0022	1		08/20/22	08/20/22 15:38	1045
o-Xylene	ND	mg/kg	0.0011	1		08/20/22	08/20/22 15:38	1045

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Project Name: Chestertown
PSS Project No.: 22081223

Sample ID: SB3 31' **Date/Time Sampled: 08/12/2022 09:00** **PSS Sample ID: 22081223-009**

Matrix: SOIL **Date/Time Received: 08/12/2022 18:25** **% Solids SM2540G-11: 84.7**

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5035A

Qualifier(s): See Batch 196498 on Case Narrative.

Surrogate(s)	Recovery	Limits					
4-Bromofluorobenzene	99 %	89-111	1	08/20/22	08/20/22 15:38	1045	
Dibromofluoromethane	98 %	91-108	1	08/20/22	08/20/22 15:38	1045	
Toluene-D8	99 %	93-104	1	08/20/22	08/20/22 15:38	1045	

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Project Name: Chestertown
 PSS Project No.: 22081223

Sample ID: SB3 22'	Date/Time Sampled: 08/12/2022 09:10			PSS Sample ID: 22081223-010		
Matrix: SOIL	Date/Time Received: 08/12/2022 18:25			% Solids SM2540G-11: 85.0		

Total Petroleum Hydrocarbons - DRO Analytical Method: SW-846 8015C DRO Preparation Method: SW3550C

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/kg	3.9		1	08/17/22	08/17/22 23:14	1069
Surrogate(s)	Recovery		Limits					
o-Terphenyl	75	%	39-119		1	08/17/22	08/17/22 23:14	1069

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C GRO Preparation Method: SW5035A

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	mg/kg	0.10		1	08/18/22	08/18/22 16:14	1045
Surrogate(s)	Recovery		Limits					
a,a,a-Trifluorotoluene	80	%	68-120		1	08/18/22	08/18/22 16:14	1045

TCL Volatile Organic Compounds Analytical Method: SW-846 8260 D Preparation Method: SW5035A

Qualifier(s): See Batch 196498 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	mg/kg	0.020		1	08/20/22	08/20/22 16:00	1045
Benzene	ND	mg/kg	0.00099		1	08/20/22	08/20/22 16:00	1045
Bromochloromethane	ND	mg/kg	0.00099		1	08/20/22	08/20/22 16:00	1045
Bromodichloromethane	ND	mg/kg	0.00099		1	08/20/22	08/20/22 16:00	1045
Bromoform	ND	mg/kg	0.00099		1	08/20/22	08/20/22 16:00	1045
Bromomethane	ND	mg/kg	0.00099		1	08/20/22	08/20/22 16:00	1045
2-Butanone (MEK)	ND	mg/kg	0.0049		1	08/20/22	08/20/22 16:00	1045
Carbon Disulfide	ND	mg/kg	0.00099		1	08/20/22	08/20/22 16:00	1045
Carbon tetrachloride	ND	mg/kg	0.00099		1	08/20/22	08/20/22 16:00	1045
Chlorobenzene	ND	mg/kg	0.00099		1	08/20/22	08/20/22 16:00	1045
Chloroethane	ND	mg/kg	0.00099		1	08/20/22	08/20/22 16:00	1045
Chloroform	ND	mg/kg	0.0049		1	08/20/22	08/20/22 16:00	1045
Chloromethane	ND	mg/kg	0.00099		1	08/20/22	08/20/22 16:00	1045
Cyclohexane	ND	mg/kg	0.00099		1	08/20/22	08/20/22 16:00	1045
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.00099		1	08/20/22	08/20/22 16:00	1045
Dibromochloromethane	ND	mg/kg	0.00099		1	08/20/22	08/20/22 16:00	1045
1,2-Dibromoethane	ND	mg/kg	0.00099		1	08/20/22	08/20/22 16:00	1045
1,2-Dichlorobenzene	ND	mg/kg	0.00099		1	08/20/22	08/20/22 16:00	1045

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Project Name: Chestertown
 PSS Project No.: 22081223

Sample ID: SB3 22'	Date/Time Sampled: 08/12/2022 09:10	PSS Sample ID: 22081223-010
Matrix: SOIL	Date/Time Received: 08/12/2022 18:25 % Solids SM2540G-11: 85.0	

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5035A

Qualifier(s): See Batch 196498 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,3-Dichlorobenzene	ND	mg/kg	0.00099	1		08/20/22	08/20/22 16:00	1045
1,4-Dichlorobenzene	ND	mg/kg	0.00099	1		08/20/22	08/20/22 16:00	1045
Dichlorodifluoromethane	ND	mg/kg	0.00099	1		08/20/22	08/20/22 16:00	1045
1,1-Dichloroethane	ND	mg/kg	0.00099	1		08/20/22	08/20/22 16:00	1045
1,2-Dichloroethane	ND	mg/kg	0.00099	1		08/20/22	08/20/22 16:00	1045
1,1-Dichloroethene	ND	mg/kg	0.00099	1		08/20/22	08/20/22 16:00	1045
1,2-Dichloropropane	ND	mg/kg	0.00099	1		08/20/22	08/20/22 16:00	1045
cis-1,2-Dichloroethene	ND	mg/kg	0.00099	1		08/20/22	08/20/22 16:00	1045
cis-1,3-Dichloropropene	ND	mg/kg	0.00099	1		08/20/22	08/20/22 16:00	1045
trans-1,2-Dichloroethene	ND	mg/kg	0.00099	1		08/20/22	08/20/22 16:00	1045
trans-1,3-Dichloropropene	ND	mg/kg	0.00099	1		08/20/22	08/20/22 16:00	1045
Ethylbenzene	ND	mg/kg	0.00099	1		08/20/22	08/20/22 16:00	1045
2-Hexanone (MBK)	ND	mg/kg	0.00099	1		08/20/22	08/20/22 16:00	1045
Isopropylbenzene	ND	mg/kg	0.00099	1		08/20/22	08/20/22 16:00	1045
Methyl Acetate	ND	mg/kg	0.025	1		08/20/22	08/20/22 16:00	1045
Methylcyclohexane	ND	mg/kg	0.00099	1		08/20/22	08/20/22 16:00	1045
Methylene chloride	ND	mg/kg	0.0049	1		08/20/22	08/20/22 16:00	1045
4-Methyl-2-Pantanone (MIBK)	ND	mg/kg	0.00099	1		08/20/22	08/20/22 16:00	1045
Methyl-t-Butyl Ether	ND	mg/kg	0.00099	1		08/20/22	08/20/22 16:00	1045
Naphthalene	ND	mg/kg	0.00099	1		08/20/22	08/20/22 16:00	1045
Styrene	ND	mg/kg	0.00099	1		08/20/22	08/20/22 16:00	1045
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.00099	1		08/20/22	08/20/22 16:00	1045
Tetrachloroethene	ND	mg/kg	0.00099	1		08/20/22	08/20/22 16:00	1045
Toluene	ND	mg/kg	0.00099	1		08/20/22	08/20/22 16:00	1045
1,2,3-Trichlorobenzene	ND	mg/kg	0.00099	1		08/20/22	08/20/22 16:00	1045
1,2,4-Trichlorobenzene	ND	mg/kg	0.00099	1		08/20/22	08/20/22 16:00	1045
1,1,1-Trichloroethane	ND	mg/kg	0.00099	1		08/20/22	08/20/22 16:00	1045
1,1,2-Trichloroethane	ND	mg/kg	0.00099	1		08/20/22	08/20/22 16:00	1045
Trichloroethene	ND	mg/kg	0.00099	1		08/20/22	08/20/22 16:00	1045
Trichlorofluoromethane	ND	mg/kg	0.00099	1		08/20/22	08/20/22 16:00	1045
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.00099	1		08/20/22	08/20/22 16:00	1045
Vinyl chloride	ND	mg/kg	0.0049	1		08/20/22	08/20/22 16:00	1045
m&p-Xylene	ND	mg/kg	0.0020	1		08/20/22	08/20/22 16:00	1045
o-Xylene	ND	mg/kg	0.00099	1		08/20/22	08/20/22 16:00	1045

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Project Name: Chestertown
PSS Project No.: 22081223

Sample ID: SB3 22' **Date/Time Sampled: 08/12/2022 09:10** **PSS Sample ID: 22081223-010**

Matrix: SOIL **Date/Time Received: 08/12/2022 18:25** **% Solids SM2540G-11: 85.0**

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5035A

Qualifier(s): See Batch 196498 on Case Narrative.

Surrogate(s)	Recovery		Limits				
4-Bromofluorobenzene	102	%	89-111	1	08/20/22	08/20/22 16:00	1045
Dibromofluoromethane	94	%	91-108	1	08/20/22	08/20/22 16:00	1045
Toluene-D8	100	%	93-104	1	08/20/22	08/20/22 16:00	1045

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Project Name: Chestertown
 PSS Project No.: 22081223

Sample ID: SB4 28'	Date/Time Sampled: 08/12/2022 10:30			PSS Sample ID: 22081223-011		
Matrix: SOIL	Date/Time Received: 08/12/2022 18:25			% Solids SM2540G-11: 84.1		

Total Petroleum Hydrocarbons - DRO Analytical Method: SW-846 8015C DRO Preparation Method: SW3550C

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/kg	3.9		1	08/17/22	08/17/22 23:39	1069
Surrogate(s)	Recovery			Limits				
o-Terphenyl	86	%	39-119		1	08/17/22	08/17/22 23:39	1069

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C GRO Preparation Method: SW5035A

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	mg/kg	0.090		1	08/18/22	08/18/22 16:38	1045
Surrogate(s)	Recovery			Limits				
a,a,a-Trifluorotoluene	76	%	68-120		1	08/18/22	08/18/22 16:38	1045

TCL Volatile Organic Compounds Analytical Method: SW-846 8260 D Preparation Method: SW5035A

Qualifier(s): See Batch 196498 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	0.027	mg/kg	0.020		1	08/20/22	08/20/22 16:22	1045
Benzene	ND	mg/kg	0.0010		1	08/20/22	08/20/22 16:22	1045
Bromochloromethane	ND	mg/kg	0.0010		1	08/20/22	08/20/22 16:22	1045
Bromodichloromethane	ND	mg/kg	0.0010		1	08/20/22	08/20/22 16:22	1045
Bromoform	ND	mg/kg	0.0010		1	08/20/22	08/20/22 16:22	1045
Bromomethane	ND	mg/kg	0.0010		1	08/20/22	08/20/22 16:22	1045
2-Butanone (MEK)	ND	mg/kg	0.0051		1	08/20/22	08/20/22 16:22	1045
Carbon Disulfide	ND	mg/kg	0.0010		1	08/20/22	08/20/22 16:22	1045
Carbon tetrachloride	ND	mg/kg	0.0010		1	08/20/22	08/20/22 16:22	1045
Chlorobenzene	ND	mg/kg	0.0010		1	08/20/22	08/20/22 16:22	1045
Chloroethane	ND	mg/kg	0.0010		1	08/20/22	08/20/22 16:22	1045
Chloroform	ND	mg/kg	0.0051		1	08/20/22	08/20/22 16:22	1045
Chloromethane	ND	mg/kg	0.0010		1	08/20/22	08/20/22 16:22	1045
Cyclohexane	ND	mg/kg	0.0010		1	08/20/22	08/20/22 16:22	1045
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0010		1	08/20/22	08/20/22 16:22	1045
Dibromochloromethane	ND	mg/kg	0.0010		1	08/20/22	08/20/22 16:22	1045
1,2-Dibromoethane	ND	mg/kg	0.0010		1	08/20/22	08/20/22 16:22	1045
1,2-Dichlorobenzene	ND	mg/kg	0.0010		1	08/20/22	08/20/22 16:22	1045

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Project Name: Chestertown
 PSS Project No.: 22081223

Sample ID: SB4 28' **Date/Time Sampled: 08/12/2022 10:30** **PSS Sample ID: 22081223-011**

Matrix: SOIL **Date/Time Received: 08/12/2022 18:25** **% Solids SM2540G-11: 84.1**

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5035A

Qualifier(s): See Batch 196498 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,3-Dichlorobenzene	ND	mg/kg	0.0010	1		08/20/22	08/20/22 16:22	1045
1,4-Dichlorobenzene	ND	mg/kg	0.0010	1		08/20/22	08/20/22 16:22	1045
Dichlorodifluoromethane	ND	mg/kg	0.0010	1		08/20/22	08/20/22 16:22	1045
1,1-Dichloroethane	ND	mg/kg	0.0010	1		08/20/22	08/20/22 16:22	1045
1,2-Dichloroethane	ND	mg/kg	0.0010	1		08/20/22	08/20/22 16:22	1045
1,1-Dichloroethene	ND	mg/kg	0.0010	1		08/20/22	08/20/22 16:22	1045
cis-1,2-Dichloroethene	ND	mg/kg	0.0010	1		08/20/22	08/20/22 16:22	1045
1,2-Dichloropropane	ND	mg/kg	0.0010	1		08/20/22	08/20/22 16:22	1045
cis-1,3-Dichloropropene	ND	mg/kg	0.0010	1		08/20/22	08/20/22 16:22	1045
trans-1,2-Dichloroethene	ND	mg/kg	0.0010	1		08/20/22	08/20/22 16:22	1045
trans-1,3-Dichloropropene	ND	mg/kg	0.0010	1		08/20/22	08/20/22 16:22	1045
Ethylbenzene	ND	mg/kg	0.0010	1		08/20/22	08/20/22 16:22	1045
2-Hexanone (MBK)	ND	mg/kg	0.0010	1		08/20/22	08/20/22 16:22	1045
Isopropylbenzene	ND	mg/kg	0.0010	1		08/20/22	08/20/22 16:22	1045
Methyl Acetate	ND	mg/kg	0.025	1		08/20/22	08/20/22 16:22	1045
Methylcyclohexane	ND	mg/kg	0.0010	1		08/20/22	08/20/22 16:22	1045
Methylene chloride	ND	mg/kg	0.0051	1		08/20/22	08/20/22 16:22	1045
4-Methyl-2-Pantanone (MIBK)	ND	mg/kg	0.0010	1		08/20/22	08/20/22 16:22	1045
Methyl-t-Butyl Ether	ND	mg/kg	0.0010	1		08/20/22	08/20/22 16:22	1045
Naphthalene	ND	mg/kg	0.0010	1		08/20/22	08/20/22 16:22	1045
Styrene	ND	mg/kg	0.0010	1		08/20/22	08/20/22 16:22	1045
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0010	1		08/20/22	08/20/22 16:22	1045
Tetrachloroethene	ND	mg/kg	0.0010	1		08/20/22	08/20/22 16:22	1045
Toluene	ND	mg/kg	0.0010	1		08/20/22	08/20/22 16:22	1045
1,2,3-Trichlorobenzene	ND	mg/kg	0.0010	1		08/20/22	08/20/22 16:22	1045
1,2,4-Trichlorobenzene	ND	mg/kg	0.0010	1		08/20/22	08/20/22 16:22	1045
1,1,1-Trichloroethane	ND	mg/kg	0.0010	1		08/20/22	08/20/22 16:22	1045
1,1,2-Trichloroethane	ND	mg/kg	0.0010	1		08/20/22	08/20/22 16:22	1045
Trichloroethene	ND	mg/kg	0.0010	1		08/20/22	08/20/22 16:22	1045
Trichlorofluoromethane	ND	mg/kg	0.0010	1		08/20/22	08/20/22 16:22	1045
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.0010	1		08/20/22	08/20/22 16:22	1045
Vinyl chloride	ND	mg/kg	0.0051	1		08/20/22	08/20/22 16:22	1045
m&p-Xylene	ND	mg/kg	0.0020	1		08/20/22	08/20/22 16:22	1045
o-Xylene	ND	mg/kg	0.0010	1		08/20/22	08/20/22 16:22	1045

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Project Name: Chestertown
PSS Project No.: 22081223

Sample ID: SB4 28' **Date/Time Sampled: 08/12/2022 10:30** **PSS Sample ID: 22081223-011**

Matrix: SOIL **Date/Time Received: 08/12/2022 18:25** **% Solids SM2540G-11: 84.1**

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5035A

Qualifier(s): See Batch 196498 on Case Narrative.

Surrogate(s)	Recovery		Limits				
4-Bromofluorobenzene	100	%	89-111	1	08/20/22	08/20/22 16:22	1045
Dibromofluoromethane	98	%	91-108	1	08/20/22	08/20/22 16:22	1045
Toluene-D8	99	%	93-104	1	08/20/22	08/20/22 16:22	1045

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Project Name: Chestertown
 PSS Project No.: 22081223

Sample ID: SB4 34'	Date/Time Sampled: 08/12/2022 10:40	PSS Sample ID: 22081223-012
Matrix: SOIL	Date/Time Received: 08/12/2022 18:25 % Solids SM2540G-11: 86.0	

Total Petroleum Hydrocarbons - DRO	Analytical Method: SW-846 8015C DRO	Preparation Method: SW3550C
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/kg	3.9		1	08/17/22	08/17/22 23:39	1069
Surrogate(s)	Recovery			Limits				
o-Terphenyl	78	%	39-119		1	08/17/22	08/17/22 23:39	1069

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C GRO	Preparation Method: SW5035A
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	mg/kg	0.086		1	08/18/22	08/18/22 17:03	1045
Surrogate(s)	Recovery			Limits				
a,a,a-Trifluorotoluene	82	%	68-120		1	08/18/22	08/18/22 17:03	1045

TCL Volatile Organic Compounds	Analytical Method: SW-846 8260 D	Preparation Method: SW5035A
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Qualifier(s): See Batch 196498 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	mg/kg	0.019		1	08/20/22	08/20/22 16:45	1045
Benzene	ND	mg/kg	0.00093		1	08/20/22	08/20/22 16:45	1045
Bromochloromethane	ND	mg/kg	0.00093		1	08/20/22	08/20/22 16:45	1045
Bromodichloromethane	ND	mg/kg	0.00093		1	08/20/22	08/20/22 16:45	1045
Bromoform	ND	mg/kg	0.00093		1	08/20/22	08/20/22 16:45	1045
Bromomethane	ND	mg/kg	0.00093		1	08/20/22	08/20/22 16:45	1045
2-Butanone (MEK)	ND	mg/kg	0.0047		1	08/20/22	08/20/22 16:45	1045
Carbon Disulfide	ND	mg/kg	0.00093		1	08/20/22	08/20/22 16:45	1045
Carbon tetrachloride	ND	mg/kg	0.00093		1	08/20/22	08/20/22 16:45	1045
Chlorobenzene	ND	mg/kg	0.00093		1	08/20/22	08/20/22 16:45	1045
Chloroethane	ND	mg/kg	0.00093		1	08/20/22	08/20/22 16:45	1045
Chloroform	ND	mg/kg	0.0047		1	08/20/22	08/20/22 16:45	1045
Chloromethane	ND	mg/kg	0.00093		1	08/20/22	08/20/22 16:45	1045
Cyclohexane	ND	mg/kg	0.00093		1	08/20/22	08/20/22 16:45	1045
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.00093		1	08/20/22	08/20/22 16:45	1045
Dibromochloromethane	ND	mg/kg	0.00093		1	08/20/22	08/20/22 16:45	1045
1,2-Dibromoethane	ND	mg/kg	0.00093		1	08/20/22	08/20/22 16:45	1045
1,2-Dichlorobenzene	ND	mg/kg	0.00093		1	08/20/22	08/20/22 16:45	1045

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Project Name: Chestertown
 PSS Project No.: 22081223

Sample ID: SB4 34'	Date/Time Sampled: 08/12/2022 10:40	PSS Sample ID: 22081223-012
Matrix: SOIL	Date/Time Received: 08/12/2022 18:25	% Solids SM2540G-11: 86.0

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5035A

Qualifier(s): See Batch 196498 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,3-Dichlorobenzene	ND	mg/kg	0.00093	1	1	08/20/22	08/20/22 16:45	1045
1,4-Dichlorobenzene	ND	mg/kg	0.00093	1	1	08/20/22	08/20/22 16:45	1045
Dichlorodifluoromethane	ND	mg/kg	0.00093	1	1	08/20/22	08/20/22 16:45	1045
1,1-Dichloroethane	ND	mg/kg	0.00093	1	1	08/20/22	08/20/22 16:45	1045
1,2-Dichloroethane	ND	mg/kg	0.00093	1	1	08/20/22	08/20/22 16:45	1045
1,1-Dichloroethene	ND	mg/kg	0.00093	1	1	08/20/22	08/20/22 16:45	1045
cis-1,2-Dichloroethene	ND	mg/kg	0.00093	1	1	08/20/22	08/20/22 16:45	1045
1,2-Dichloropropane	ND	mg/kg	0.00093	1	1	08/20/22	08/20/22 16:45	1045
cis-1,3-Dichloropropene	ND	mg/kg	0.00093	1	1	08/20/22	08/20/22 16:45	1045
trans-1,2-Dichloroethene	ND	mg/kg	0.00093	1	1	08/20/22	08/20/22 16:45	1045
trans-1,3-Dichloropropene	ND	mg/kg	0.00093	1	1	08/20/22	08/20/22 16:45	1045
Ethylbenzene	ND	mg/kg	0.00093	1	1	08/20/22	08/20/22 16:45	1045
2-Hexanone (MBK)	ND	mg/kg	0.00093	1	1	08/20/22	08/20/22 16:45	1045
Isopropylbenzene	ND	mg/kg	0.00093	1	1	08/20/22	08/20/22 16:45	1045
Methyl Acetate	ND	mg/kg	0.023	1	1	08/20/22	08/20/22 16:45	1045
Methylcyclohexane	ND	mg/kg	0.00093	1	1	08/20/22	08/20/22 16:45	1045
Methylene chloride	ND	mg/kg	0.0047	1	1	08/20/22	08/20/22 16:45	1045
4-Methyl-2-Pantanone (MIBK)	ND	mg/kg	0.00093	1	1	08/20/22	08/20/22 16:45	1045
Methyl-t-Butyl Ether	ND	mg/kg	0.00093	1	1	08/20/22	08/20/22 16:45	1045
Naphthalene	ND	mg/kg	0.00093	1	1	08/20/22	08/20/22 16:45	1045
Styrene	ND	mg/kg	0.00093	1	1	08/20/22	08/20/22 16:45	1045
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.00093	1	1	08/20/22	08/20/22 16:45	1045
Tetrachloroethene	ND	mg/kg	0.00093	1	1	08/20/22	08/20/22 16:45	1045
Toluene	ND	mg/kg	0.00093	1	1	08/20/22	08/20/22 16:45	1045
1,2,3-Trichlorobenzene	ND	mg/kg	0.00093	1	1	08/20/22	08/20/22 16:45	1045
1,2,4-Trichlorobenzene	ND	mg/kg	0.00093	1	1	08/20/22	08/20/22 16:45	1045
1,1,1-Trichloroethane	ND	mg/kg	0.00093	1	1	08/20/22	08/20/22 16:45	1045
1,1,2-Trichloroethane	ND	mg/kg	0.00093	1	1	08/20/22	08/20/22 16:45	1045
Trichloroethene	ND	mg/kg	0.00093	1	1	08/20/22	08/20/22 16:45	1045
Trichlorofluoromethane	ND	mg/kg	0.00093	1	1	08/20/22	08/20/22 16:45	1045
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.00093	1	1	08/20/22	08/20/22 16:45	1045
Vinyl chloride	ND	mg/kg	0.0047	1	1	08/20/22	08/20/22 16:45	1045
m&p-Xylene	ND	mg/kg	0.0019	1	1	08/20/22	08/20/22 16:45	1045
o-Xylene	ND	mg/kg	0.00093	1	1	08/20/22	08/20/22 16:45	1045

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Project Name: Chestertown
PSS Project No.: 22081223

Sample ID: SB4 34' **Date/Time Sampled: 08/12/2022 10:40** **PSS Sample ID: 22081223-012**

Matrix: SOIL **Date/Time Received: 08/12/2022 18:25** **% Solids SM2540G-11: 86.0**

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5035A

Qualifier(s): See Batch 196498 on Case Narrative.

Surrogate(s)	Recovery		Limits				
4-Bromofluorobenzene	102	%	89-111	1	08/20/22	08/20/22 16:45	1045
Dibromofluoromethane	99	%	91-108	1	08/20/22	08/20/22 16:45	1045
Toluene-D8	100	%	93-104	1	08/20/22	08/20/22 16:45	1045

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Project Name: Chestertown
 PSS Project No.: 22081223

Sample ID: SB5 25'	Date/Time Sampled: 08/12/2022 13:30			PSS Sample ID: 22081223-013		
Matrix: SOIL	Date/Time Received: 08/12/2022 18:25			% Solids SM2540G-11: 84.7		

Total Petroleum Hydrocarbons - DRO Analytical Method: SW-846 8015C DRO Preparation Method: SW3550C

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/kg	3.9		1	08/17/22	08/18/22 00:04	1069
Surrogate(s)	Recovery		Limits					
o-Terphenyl	94	%	39-119		1	08/17/22	08/18/22 00:04	1069

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C GRO Preparation Method: SW5035A

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	0.10	mg/kg	0.089		1	08/18/22	08/18/22 17:27	1045
Surrogate(s)	Recovery		Limits					
a,a,a-Trifluorotoluene	78	%	68-120		1	08/18/22	08/18/22 17:27	1045

TCL Volatile Organic Compounds Analytical Method: SW-846 8260 D Preparation Method: SW5035A

Qualifier(s): See Batch 196498 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	0.19	mg/kg	0.018		1	08/20/22	08/20/22 17:07	1045
Benzene	ND	mg/kg	0.00092		1	08/20/22	08/20/22 17:07	1045
Bromochloromethane	ND	mg/kg	0.00092		1	08/20/22	08/20/22 17:07	1045
Bromodichloromethane	ND	mg/kg	0.00092		1	08/20/22	08/20/22 17:07	1045
Bromoform	ND	mg/kg	0.00092		1	08/20/22	08/20/22 17:07	1045
Bromomethane	ND	mg/kg	0.00092		1	08/20/22	08/20/22 17:07	1045
2-Butanone (MEK)	0.027	mg/kg	0.0046		1	08/20/22	08/20/22 17:07	1045
Carbon Disulfide	ND	mg/kg	0.00092		1	08/20/22	08/20/22 17:07	1045
Carbon tetrachloride	ND	mg/kg	0.00092		1	08/20/22	08/20/22 17:07	1045
Chlorobenzene	ND	mg/kg	0.00092		1	08/20/22	08/20/22 17:07	1045
Chloroethane	ND	mg/kg	0.00092		1	08/20/22	08/20/22 17:07	1045
Chloroform	ND	mg/kg	0.0046		1	08/20/22	08/20/22 17:07	1045
Chloromethane	ND	mg/kg	0.00092		1	08/20/22	08/20/22 17:07	1045
Cyclohexane	ND	mg/kg	0.00092		1	08/20/22	08/20/22 17:07	1045
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.00092		1	08/20/22	08/20/22 17:07	1045
Dibromochloromethane	ND	mg/kg	0.00092		1	08/20/22	08/20/22 17:07	1045
1,2-Dibromoethane	ND	mg/kg	0.00092		1	08/20/22	08/20/22 17:07	1045
1,2-Dichlorobenzene	ND	mg/kg	0.00092		1	08/20/22	08/20/22 17:07	1045

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Project Name: Chestertown
 PSS Project No.: 22081223

Sample ID: SB5 25'	Date/Time Sampled: 08/12/2022 13:30	PSS Sample ID: 22081223-013
Matrix: SOIL	Date/Time Received: 08/12/2022 18:25	% Solids SM2540G-11: 84.7

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5035A

Qualifier(s): See Batch 196498 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,3-Dichlorobenzene	ND	mg/kg	0.00092	1	1	08/20/22	08/20/22 17:07	1045
1,4-Dichlorobenzene	ND	mg/kg	0.00092	1	1	08/20/22	08/20/22 17:07	1045
Dichlorodifluoromethane	ND	mg/kg	0.00092	1	1	08/20/22	08/20/22 17:07	1045
1,1-Dichloroethane	ND	mg/kg	0.00092	1	1	08/20/22	08/20/22 17:07	1045
1,2-Dichloroethane	ND	mg/kg	0.00092	1	1	08/20/22	08/20/22 17:07	1045
1,1-Dichloroethene	ND	mg/kg	0.00092	1	1	08/20/22	08/20/22 17:07	1045
cis-1,2-Dichloroethene	ND	mg/kg	0.00092	1	1	08/20/22	08/20/22 17:07	1045
1,2-Dichloropropane	ND	mg/kg	0.00092	1	1	08/20/22	08/20/22 17:07	1045
cis-1,3-Dichloropropene	ND	mg/kg	0.00092	1	1	08/20/22	08/20/22 17:07	1045
trans-1,2-Dichloroethene	ND	mg/kg	0.00092	1	1	08/20/22	08/20/22 17:07	1045
trans-1,3-Dichloropropene	ND	mg/kg	0.00092	1	1	08/20/22	08/20/22 17:07	1045
Ethylbenzene	ND	mg/kg	0.00092	1	1	08/20/22	08/20/22 17:07	1045
2-Hexanone (MBK)	ND	mg/kg	0.00092	1	1	08/20/22	08/20/22 17:07	1045
Isopropylbenzene	ND	mg/kg	0.00092	1	1	08/20/22	08/20/22 17:07	1045
Methyl Acetate	ND	mg/kg	0.023	1	1	08/20/22	08/20/22 17:07	1045
Methylcyclohexane	ND	mg/kg	0.00092	1	1	08/20/22	08/20/22 17:07	1045
Methylene chloride	ND	mg/kg	0.0046	1	1	08/20/22	08/20/22 17:07	1045
4-Methyl-2-Pantanone (MIBK)	ND	mg/kg	0.00092	1	1	08/20/22	08/20/22 17:07	1045
Methyl-t-Butyl Ether	ND	mg/kg	0.00092	1	1	08/20/22	08/20/22 17:07	1045
Naphthalene	ND	mg/kg	0.00092	1	1	08/20/22	08/20/22 17:07	1045
Styrene	ND	mg/kg	0.00092	1	1	08/20/22	08/20/22 17:07	1045
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.00092	1	1	08/20/22	08/20/22 17:07	1045
Tetrachloroethene	ND	mg/kg	0.00092	1	1	08/20/22	08/20/22 17:07	1045
Toluene	ND	mg/kg	0.00092	1	1	08/20/22	08/20/22 17:07	1045
1,2,3-Trichlorobenzene	ND	mg/kg	0.00092	1	1	08/20/22	08/20/22 17:07	1045
1,2,4-Trichlorobenzene	ND	mg/kg	0.00092	1	1	08/20/22	08/20/22 17:07	1045
1,1,1-Trichloroethane	ND	mg/kg	0.00092	1	1	08/20/22	08/20/22 17:07	1045
1,1,2-Trichloroethane	ND	mg/kg	0.00092	1	1	08/20/22	08/20/22 17:07	1045
Trichloroethene	ND	mg/kg	0.00092	1	1	08/20/22	08/20/22 17:07	1045
Trichlorofluoromethane	ND	mg/kg	0.00092	1	1	08/20/22	08/20/22 17:07	1045
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.00092	1	1	08/20/22	08/20/22 17:07	1045
Vinyl chloride	ND	mg/kg	0.0046	1	1	08/20/22	08/20/22 17:07	1045
m&p-Xylene	ND	mg/kg	0.0018	1	1	08/20/22	08/20/22 17:07	1045
o-Xylene	ND	mg/kg	0.00092	1	1	08/20/22	08/20/22 17:07	1045

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Project Name: Chestertown
PSS Project No.: 22081223

Sample ID: SB5 25' **Date/Time Sampled: 08/12/2022 13:30** **PSS Sample ID: 22081223-013**

Matrix: SOIL **Date/Time Received: 08/12/2022 18:25** **% Solids SM2540G-11: 84.7**

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5035A

Qualifier(s): See Batch 196498 on Case Narrative.

Surrogate(s)	Recovery	Limits					
4-Bromofluorobenzene	100 %	89-111	1	08/20/22	08/20/22 17:07	1045	
Dibromofluoromethane	99 %	91-108	1	08/20/22	08/20/22 17:07	1045	
Toluene-D8	98 %	93-104	1	08/20/22	08/20/22 17:07	1045	

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Project Name: Chestertown
 PSS Project No.: 22081223

Sample ID: SB5 37'	Date/Time Sampled: 08/12/2022 13:20			PSS Sample ID: 22081223-014		
Matrix: SOIL	Date/Time Received: 08/12/2022 18:25			% Solids SM2540G-11: 86.5		

Total Petroleum Hydrocarbons - DRO Analytical Method: SW-846 8015C DRO Preparation Method: SW3550C

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	2,800	mg/kg	190		50	08/17/22	08/18/22 12:41	1069
Surrogate(s)	Recovery			Limits				
o-Terphenyl	96	%	39-119		50	08/17/22	08/18/22 12:41	1069

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C GRO Preparation Method: SW5035A

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	5.3	mg/kg	0.10		1	08/18/22	08/18/22 17:52	1045
Surrogate(s)	Recovery			Limits				
a,a,a-Trifluorotoluene	86	%	68-120		1	08/18/22	08/18/22 17:52	1045

TCL Volatile Organic Compounds Analytical Method: SW-846 8260 D Preparation Method: SW5035A

Qualifier(s): See Batch 196533 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	mg/kg	2.1		100	08/22/22	08/22/22 13:10	1045
Benzene	ND	mg/kg	0.10		100	08/22/22	08/22/22 13:10	1045
Bromochloromethane	ND	mg/kg	0.10		100	08/22/22	08/22/22 13:10	1045
Bromodichloromethane	ND	mg/kg	0.10		100	08/22/22	08/22/22 13:10	1045
Bromoform	ND	mg/kg	0.10		100	08/22/22	08/22/22 13:10	1045
Bromomethane	ND	mg/kg	0.10		100	08/22/22	08/22/22 13:10	1045
2-Butanone (MEK)	ND	mg/kg	0.51		100	08/22/22	08/22/22 13:10	1045
Carbon Disulfide	ND	mg/kg	0.10		100	08/22/22	08/22/22 13:10	1045
Carbon tetrachloride	ND	mg/kg	0.10		100	08/22/22	08/22/22 13:10	1045
Chlorobenzene	ND	mg/kg	0.10		100	08/22/22	08/22/22 13:10	1045
Chloroethane	ND	mg/kg	0.10		100	08/22/22	08/22/22 13:10	1045
Chloroform	ND	mg/kg	0.51		100	08/22/22	08/22/22 13:10	1045
Chloromethane	ND	mg/kg	0.10		100	08/22/22	08/22/22 13:10	1045
Cyclohexane	ND	mg/kg	0.10		100	08/22/22	08/22/22 13:10	1045
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.10		100	08/22/22	08/22/22 13:10	1045
Dibromochloromethane	ND	mg/kg	0.10		100	08/22/22	08/22/22 13:10	1045
1,2-Dibromoethane	ND	mg/kg	0.10		100	08/22/22	08/22/22 13:10	1045
1,2-Dichlorobenzene	ND	mg/kg	0.10		100	08/22/22	08/22/22 13:10	1045

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Project Name: Chestertown
 PSS Project No.: 22081223

Sample ID: SB5 37' **Date/Time Sampled: 08/12/2022 13:20** **PSS Sample ID: 22081223-014**

Matrix: SOIL **Date/Time Received: 08/12/2022 18:25** **% Solids SM2540G-11: 86.5**

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5035A

Qualifier(s): See Batch 196533 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,3-Dichlorobenzene	ND	mg/kg	0.10	100		08/22/22	08/22/22 13:10	1045
1,4-Dichlorobenzene	ND	mg/kg	0.10	100		08/22/22	08/22/22 13:10	1045
Dichlorodifluoromethane	ND	mg/kg	0.10	100		08/22/22	08/22/22 13:10	1045
1,1-Dichloroethane	ND	mg/kg	0.10	100		08/22/22	08/22/22 13:10	1045
1,2-Dichloroethane	ND	mg/kg	0.10	100		08/22/22	08/22/22 13:10	1045
1,1-Dichloroethene	ND	mg/kg	0.10	100		08/22/22	08/22/22 13:10	1045
cis-1,2-Dichloroethene	ND	mg/kg	0.10	100		08/22/22	08/22/22 13:10	1045
1,2-Dichloropropane	ND	mg/kg	0.10	100		08/22/22	08/22/22 13:10	1045
cis-1,3-Dichloropropene	ND	mg/kg	0.10	100		08/22/22	08/22/22 13:10	1045
trans-1,2-Dichloroethene	ND	mg/kg	0.10	100		08/22/22	08/22/22 13:10	1045
trans-1,3-Dichloropropene	ND	mg/kg	0.10	100		08/22/22	08/22/22 13:10	1045
Ethylbenzene	ND	mg/kg	0.10	100		08/22/22	08/22/22 13:10	1045
2-Hexanone (MBK)	ND	mg/kg	0.10	100		08/22/22	08/22/22 13:10	1045
Isopropylbenzene	0.20	mg/kg	0.10	100		08/22/22	08/22/22 13:10	1045
Methyl Acetate	ND	mg/kg	2.6	100		08/22/22	08/22/22 13:10	1045
Methylcyclohexane	ND	mg/kg	0.10	100		08/22/22	08/22/22 13:10	1045
Methylene chloride	ND	mg/kg	0.51	100		08/22/22	08/22/22 13:10	1045
4-Methyl-2-Pantanone (MIBK)	ND	mg/kg	0.10	100		08/22/22	08/22/22 13:10	1045
Methyl-t-Butyl Ether	ND	mg/kg	0.10	100		08/22/22	08/22/22 13:10	1045
Naphthalene	ND	mg/kg	0.10	100		08/22/22	08/22/22 13:10	1045
Styrene	ND	mg/kg	0.10	100		08/22/22	08/22/22 13:10	1045
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.10	100		08/22/22	08/22/22 13:10	1045
Tetrachloroethene	ND	mg/kg	0.10	100		08/22/22	08/22/22 13:10	1045
Toluene	ND	mg/kg	0.10	100		08/22/22	08/22/22 13:10	1045
1,2,3-Trichlorobenzene	ND	mg/kg	0.10	100		08/22/22	08/22/22 13:10	1045
1,2,4-Trichlorobenzene	ND	mg/kg	0.10	100		08/22/22	08/22/22 13:10	1045
1,1,1-Trichloroethane	ND	mg/kg	0.10	100		08/22/22	08/22/22 13:10	1045
1,1,2-Trichloroethane	ND	mg/kg	0.10	100		08/22/22	08/22/22 13:10	1045
Trichloroethene	ND	mg/kg	0.10	100		08/22/22	08/22/22 13:10	1045
Trichlorofluoromethane	ND	mg/kg	0.10	100		08/22/22	08/22/22 13:10	1045
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.10	100		08/22/22	08/22/22 13:10	1045
Vinyl chloride	ND	mg/kg	0.51	100		08/22/22	08/22/22 13:10	1045
m&p-Xylene	ND	mg/kg	0.21	100		08/22/22	08/22/22 13:10	1045
o-Xylene	ND	mg/kg	0.10	100		08/22/22	08/22/22 13:10	1045

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Project Name: Chestertown
PSS Project No.: 22081223

Sample ID: SB5 37' **Date/Time Sampled: 08/12/2022 13:20** **PSS Sample ID: 22081223-014**

Matrix: SOIL **Date/Time Received: 08/12/2022 18:25** **% Solids SM2540G-11: 86.5**

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5035A

Qualifier(s): See Batch 196533 on Case Narrative.

Surrogate(s)	Recovery		Limits				
4-Bromofluorobenzene	98	%	89-111	100	08/22/22	08/22/22 13:10	1045
Dibromofluoromethane	93	%	91-108	100	08/22/22	08/22/22 13:10	1045
Toluene-D8	99	%	93-104	100	08/22/22	08/22/22 13:10	1045

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Project Name: Chestertown
 PSS Project No.: 22081223

Sample ID: SB6 39'	Date/Time Sampled: 08/12/2022 15:40			PSS Sample ID: 22081223-015		
Matrix: SOIL	Date/Time Received: 08/12/2022 18:25			% Solids SM2540G-11: 85.9		

Total Petroleum Hydrocarbons - DRO Analytical Method: SW-846 8015C DRO Preparation Method: SW3550C

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	310	mg/kg	3.8		1	08/17/22	08/18/22 11:02	1069
Surrogate(s)	Recovery		Limits					
o-Terphenyl	106	%	39-119		1	08/17/22	08/18/22 11:02	1069

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C GRO Preparation Method: SW5035A

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	31	mg/kg	0.097		1	08/18/22	08/18/22 18:16	1045
Surrogate(s)	Recovery		Limits					
a,a,a-Trifluorotoluene	78	%	68-120		1	08/18/22	08/18/22 18:16	1045

TCL Volatile Organic Compounds Analytical Method: SW-846 8260 D Preparation Method: SW5035A

Qualifier(s): See Batch 196533 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	mg/kg	2.0		100	08/22/22	08/22/22 12:48	1045
Benzene	ND	mg/kg	0.098		100	08/22/22	08/22/22 12:48	1045
Bromochloromethane	ND	mg/kg	0.098		100	08/22/22	08/22/22 12:48	1045
Bromodichloromethane	ND	mg/kg	0.098		100	08/22/22	08/22/22 12:48	1045
Bromoform	ND	mg/kg	0.098		100	08/22/22	08/22/22 12:48	1045
Bromomethane	ND	mg/kg	0.098		100	08/22/22	08/22/22 12:48	1045
2-Butanone (MEK)	ND	mg/kg	0.49		100	08/22/22	08/22/22 12:48	1045
Carbon Disulfide	ND	mg/kg	0.098		100	08/22/22	08/22/22 12:48	1045
Carbon tetrachloride	ND	mg/kg	0.098		100	08/22/22	08/22/22 12:48	1045
Chlorobenzene	ND	mg/kg	0.098		100	08/22/22	08/22/22 12:48	1045
Chloroethane	ND	mg/kg	0.098		100	08/22/22	08/22/22 12:48	1045
Chloroform	ND	mg/kg	0.49		100	08/22/22	08/22/22 12:48	1045
Chloromethane	ND	mg/kg	0.098		100	08/22/22	08/22/22 12:48	1045
Cyclohexane	ND	mg/kg	0.098		100	08/22/22	08/22/22 12:48	1045
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.098		100	08/22/22	08/22/22 12:48	1045
Dibromochloromethane	ND	mg/kg	0.098		100	08/22/22	08/22/22 12:48	1045
1,2-Dibromoethane	ND	mg/kg	0.098		100	08/22/22	08/22/22 12:48	1045
1,2-Dichlorobenzene	ND	mg/kg	0.098		100	08/22/22	08/22/22 12:48	1045

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Project Name: Chestertown
 PSS Project No.: 22081223

Sample ID: SB6 39' **Date/Time Sampled: 08/12/2022 15:40** **PSS Sample ID: 22081223-015**

Matrix: SOIL **Date/Time Received: 08/12/2022 18:25** **% Solids SM2540G-11: 85.9**

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5035A

Qualifier(s): See Batch 196533 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,3-Dichlorobenzene	ND	mg/kg	0.098	100		08/22/22	08/22/22 12:48	1045
1,4-Dichlorobenzene	ND	mg/kg	0.098	100		08/22/22	08/22/22 12:48	1045
Dichlorodifluoromethane	ND	mg/kg	0.098	100		08/22/22	08/22/22 12:48	1045
1,1-Dichloroethane	ND	mg/kg	0.098	100		08/22/22	08/22/22 12:48	1045
1,2-Dichloroethane	ND	mg/kg	0.098	100		08/22/22	08/22/22 12:48	1045
1,1-Dichloroethene	ND	mg/kg	0.098	100		08/22/22	08/22/22 12:48	1045
1,2-Dichloropropane	ND	mg/kg	0.098	100		08/22/22	08/22/22 12:48	1045
cis-1,2-Dichloroethene	ND	mg/kg	0.098	100		08/22/22	08/22/22 12:48	1045
cis-1,3-Dichloropropene	ND	mg/kg	0.098	100		08/22/22	08/22/22 12:48	1045
trans-1,2-Dichloroethene	ND	mg/kg	0.098	100		08/22/22	08/22/22 12:48	1045
trans-1,3-Dichloropropene	ND	mg/kg	0.098	100		08/22/22	08/22/22 12:48	1045
Ethylbenzene	ND	mg/kg	0.098	100		08/22/22	08/22/22 12:48	1045
2-Hexanone (MBK)	ND	mg/kg	0.098	100		08/22/22	08/22/22 12:48	1045
Isopropylbenzene	ND	mg/kg	0.098	100		08/22/22	08/22/22 12:48	1045
Methyl Acetate	ND	mg/kg	2.4	100		08/22/22	08/22/22 12:48	1045
Methylcyclohexane	ND	mg/kg	0.098	100		08/22/22	08/22/22 12:48	1045
Methylene chloride	ND	mg/kg	0.49	100		08/22/22	08/22/22 12:48	1045
4-Methyl-2-Pantanone (MIBK)	ND	mg/kg	0.098	100		08/22/22	08/22/22 12:48	1045
Methyl-t-Butyl Ether	ND	mg/kg	0.098	100		08/22/22	08/22/22 12:48	1045
Naphthalene	ND	mg/kg	0.098	100		08/22/22	08/22/22 12:48	1045
Styrene	ND	mg/kg	0.098	100		08/22/22	08/22/22 12:48	1045
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.098	100		08/22/22	08/22/22 12:48	1045
Tetrachloroethene	ND	mg/kg	0.098	100		08/22/22	08/22/22 12:48	1045
Toluene	ND	mg/kg	0.098	100		08/22/22	08/22/22 12:48	1045
1,2,3-Trichlorobenzene	ND	mg/kg	0.098	100		08/22/22	08/22/22 12:48	1045
1,2,4-Trichlorobenzene	ND	mg/kg	0.098	100		08/22/22	08/22/22 12:48	1045
1,1,1-Trichloroethane	ND	mg/kg	0.098	100		08/22/22	08/22/22 12:48	1045
1,1,2-Trichloroethane	ND	mg/kg	0.098	100		08/22/22	08/22/22 12:48	1045
Trichloroethene	ND	mg/kg	0.098	100		08/22/22	08/22/22 12:48	1045
Trichlorofluoromethane	ND	mg/kg	0.098	100		08/22/22	08/22/22 12:48	1045
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.098	100		08/22/22	08/22/22 12:48	1045
Vinyl chloride	ND	mg/kg	0.49	100		08/22/22	08/22/22 12:48	1045
m&p-Xylene	ND	mg/kg	0.20	100		08/22/22	08/22/22 12:48	1045
o-Xylene	ND	mg/kg	0.098	100		08/22/22	08/22/22 12:48	1045

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Project Name: Chestertown
PSS Project No.: 22081223

Sample ID: SB6 39' **Date/Time Sampled: 08/12/2022 15:40** **PSS Sample ID: 22081223-015**

Matrix: SOIL **Date/Time Received: 08/12/2022 18:25** **% Solids SM2540G-11: 85.9**

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5035A

Qualifier(s): See Batch 196533 on Case Narrative.

Surrogate(s)	Recovery		Limits				
4-Bromofluorobenzene	99	%	89-111	100	08/22/22	08/22/22 12:48	1045
Dibromofluoromethane	94	%	91-108	100	08/22/22	08/22/22 12:48	1045
Toluene-D8	99	%	93-104	100	08/22/22	08/22/22 12:48	1045

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Project Name: Chestertown
 PSS Project No.: 22081223

Sample ID: SB6 44'	Date/Time Sampled: 08/12/2022 15:50	PSS Sample ID: 22081223-016
Matrix: SOIL	Date/Time Received: 08/12/2022 18:25 % Solids SM2540G-11: 82.5	

Total Petroleum Hydrocarbons - DRO	Analytical Method: SW-846 8015C DRO	Preparation Method: SW3550C
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	77	mg/kg	4.0		1	08/17/22	08/18/22 00:04	1069
Surrogate(s)	Recovery			Limits				
o-Terphenyl	79	%	39-119		1	08/17/22	08/18/22 00:04	1069

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C GRO	Preparation Method: SW5035A
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	0.95	mg/kg	0.097		1	08/18/22	08/18/22 18:41	1045
Surrogate(s)	Recovery			Limits				
a,a,a-Trifluorotoluene	86	%	68-120		1	08/18/22	08/18/22 18:41	1045

TCL Volatile Organic Compounds	Analytical Method: SW-846 8260 D	Preparation Method: SW5035A
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Qualifier(s): See Batch 196498 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	mg/kg	0.019		1	08/20/22	08/20/22 17:29	1045
Benzene	ND	mg/kg	0.00097		1	08/20/22	08/20/22 17:29	1045
Bromochloromethane	ND	mg/kg	0.00097		1	08/20/22	08/20/22 17:29	1045
Bromodichloromethane	ND	mg/kg	0.00097		1	08/20/22	08/20/22 17:29	1045
Bromoform	ND	mg/kg	0.00097		1	08/20/22	08/20/22 17:29	1045
Bromomethane	ND	mg/kg	0.00097		1	08/20/22	08/20/22 17:29	1045
2-Butanone (MEK)	ND	mg/kg	0.0048		1	08/20/22	08/20/22 17:29	1045
Carbon Disulfide	ND	mg/kg	0.00097		1	08/20/22	08/20/22 17:29	1045
Carbon tetrachloride	ND	mg/kg	0.00097		1	08/20/22	08/20/22 17:29	1045
Chlorobenzene	ND	mg/kg	0.00097		1	08/20/22	08/20/22 17:29	1045
Chloroethane	ND	mg/kg	0.00097		1	08/20/22	08/20/22 17:29	1045
Chloroform	ND	mg/kg	0.0048		1	08/20/22	08/20/22 17:29	1045
Chloromethane	ND	mg/kg	0.00097		1	08/20/22	08/20/22 17:29	1045
Cyclohexane	ND	mg/kg	0.00097		1	08/20/22	08/20/22 17:29	1045
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.00097		1	08/20/22	08/20/22 17:29	1045
Dibromochloromethane	ND	mg/kg	0.00097		1	08/20/22	08/20/22 17:29	1045
1,2-Dibromoethane	ND	mg/kg	0.00097		1	08/20/22	08/20/22 17:29	1045
1,2-Dichlorobenzene	ND	mg/kg	0.00097		1	08/20/22	08/20/22 17:29	1045

Certificate of Analysis

Project Name: Chestertown
 PSS Project No.: 22081223

Sample ID: SB6 44' **Date/Time Sampled: 08/12/2022 15:50** **PSS Sample ID: 22081223-016**

Matrix: SOIL **Date/Time Received: 08/12/2022 18:25** **% Solids SM2540G-11: 82.5**

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5035A

Qualifier(s): See Batch 196498 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,3-Dichlorobenzene	ND	mg/kg	0.00097	1		08/20/22	08/20/22 17:29	1045
1,4-Dichlorobenzene	ND	mg/kg	0.00097	1		08/20/22	08/20/22 17:29	1045
Dichlorodifluoromethane	ND	mg/kg	0.00097	1		08/20/22	08/20/22 17:29	1045
1,1-Dichloroethane	ND	mg/kg	0.00097	1		08/20/22	08/20/22 17:29	1045
1,2-Dichloroethane	ND	mg/kg	0.00097	1		08/20/22	08/20/22 17:29	1045
1,1-Dichloroethene	ND	mg/kg	0.00097	1		08/20/22	08/20/22 17:29	1045
1,2-Dichloropropane	ND	mg/kg	0.00097	1		08/20/22	08/20/22 17:29	1045
cis-1,2-Dichloroethene	ND	mg/kg	0.00097	1		08/20/22	08/20/22 17:29	1045
cis-1,3-Dichloropropene	ND	mg/kg	0.00097	1		08/20/22	08/20/22 17:29	1045
trans-1,2-Dichloroethene	ND	mg/kg	0.00097	1		08/20/22	08/20/22 17:29	1045
trans-1,3-Dichloropropene	ND	mg/kg	0.00097	1		08/20/22	08/20/22 17:29	1045
Ethylbenzene	ND	mg/kg	0.00097	1		08/20/22	08/20/22 17:29	1045
2-Hexanone (MBK)	ND	mg/kg	0.00097	1		08/20/22	08/20/22 17:29	1045
Isopropylbenzene	ND	mg/kg	0.00097	1		08/20/22	08/20/22 17:29	1045
Methyl Acetate	ND	mg/kg	0.024	1		08/20/22	08/20/22 17:29	1045
Methylcyclohexane	ND	mg/kg	0.00097	1		08/20/22	08/20/22 17:29	1045
Methylene chloride	ND	mg/kg	0.0048	1		08/20/22	08/20/22 17:29	1045
4-Methyl-2-Pantanone (MIBK)	ND	mg/kg	0.00097	1		08/20/22	08/20/22 17:29	1045
Methyl-t-Butyl Ether	ND	mg/kg	0.00097	1		08/20/22	08/20/22 17:29	1045
Naphthalene	0.0055	mg/kg	0.00097	1		08/20/22	08/20/22 17:29	1045
Styrene	ND	mg/kg	0.00097	1		08/20/22	08/20/22 17:29	1045
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.00097	1		08/20/22	08/20/22 17:29	1045
Tetrachloroethene	ND	mg/kg	0.00097	1		08/20/22	08/20/22 17:29	1045
Toluene	ND	mg/kg	0.00097	1		08/20/22	08/20/22 17:29	1045
1,2,3-Trichlorobenzene	ND	mg/kg	0.00097	1		08/20/22	08/20/22 17:29	1045
1,2,4-Trichlorobenzene	ND	mg/kg	0.00097	1		08/20/22	08/20/22 17:29	1045
1,1,1-Trichloroethane	ND	mg/kg	0.00097	1		08/20/22	08/20/22 17:29	1045
1,1,2-Trichloroethane	ND	mg/kg	0.00097	1		08/20/22	08/20/22 17:29	1045
Trichloroethene	ND	mg/kg	0.00097	1		08/20/22	08/20/22 17:29	1045
Trichlorofluoromethane	ND	mg/kg	0.00097	1		08/20/22	08/20/22 17:29	1045
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.00097	1		08/20/22	08/20/22 17:29	1045
Vinyl chloride	ND	mg/kg	0.0048	1		08/20/22	08/20/22 17:29	1045
m&p-Xylene	ND	mg/kg	0.0019	1		08/20/22	08/20/22 17:29	1045
o-Xylene	ND	mg/kg	0.00097	1		08/20/22	08/20/22 17:29	1045

Certificate of Analysis

6630 Baltimore National Pike
Baltimore, MD 21228
410-747-8770
800-932-9047
www.phaseonline.com

Project Name: Chestertown
PSS Project No.: 22081223

Sample ID: SB6 44' **Date/Time Sampled: 08/12/2022 15:50** **PSS Sample ID: 22081223-016**

Matrix: SOIL **Date/Time Received: 08/12/2022 18:25** **% Solids SM2540G-11: 82.5**

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5035A

Qualifier(s): See Batch 196498 on Case Narrative.

Surrogate(s)	Recovery		Limits				
4-Bromofluorobenzene	102	%	89-111	1	08/20/22	08/20/22 17:29	1045
Dibromofluoromethane	99	%	91-108	1	08/20/22	08/20/22 17:29	1045
Toluene-D8	99	%	93-104	1	08/20/22	08/20/22 17:29	1045

Project Name: Chestertown

PSS Project No.: 22081223

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

Matrix spike and matrix spike duplicate analyses may not be performed due to insufficient sample quantity. In these instances, a laboratory control sample and laboratory control sample duplicate are analyzed unless otherwise noted or specified in the method.

Sample Receipt:

Terra core vials for sample 013 labeled as "SB5 30"; 4oz jar for sample 013 labeled as "SB5 5 25". Logged in according to COC.

Received 2oz plastic container for sample 002 empty; 4oz jar used for solids content.

General Comments:

GRO added, per client.

Analytical:**TCL Volatile Organic Compounds****Batch: 196533**

Continuing calibration verification standard (CCV) meets method criteria in that more than 80% of analytes are within acceptance limits, see QC summary.

Analytical:**TCL Volatiles plus Oxygenates****Batch: 196498**

Continuing calibration verification standard (CCV) meets method criteria in that more than 80% of analytes are within acceptance limits, see QC summary.

Method exceedance: Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) exceedance identified; see QC summary.

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

Lab Chronology

6630 Baltimore National Pike
 Baltimore, MD 21228
 410-747-8770
 800-932-9047
www.phaseonline.com

Project Name: Chestertown
 PSS Project No.: 22081223

Method	Client Sample ID	Analysis Type	PSS Sample ID	Mtx	Prep Batch	Analytical Batch	Prepared	Analyzed
SM2540G	SB8 39'	Initial	22081223-001	S	196351	196351	08/15/2022 17:45	08/15/2022 17:45
	SB8 43'	Initial	22081223-002	S	196351	196351	08/15/2022 17:45	08/15/2022 17:45
	SB7 40'	Initial	22081223-003	S	196351	196351	08/15/2022 17:45	08/15/2022 17:45
	SB7 12'	Initial	22081223-004	S	196351	196351	08/15/2022 17:45	08/15/2022 17:45
	SB1 34'	Initial	22081223-005	S	196351	196351	08/15/2022 17:45	08/15/2022 17:45
	SB1 23'	Initial	22081223-006	S	196351	196351	08/15/2022 17:45	08/15/2022 17:45
	SB2 32'	Initial	22081223-007	S	196351	196351	08/15/2022 17:45	08/15/2022 17:45
	SB2 41'	Initial	22081223-008	S	196351	196351	08/15/2022 17:45	08/15/2022 17:45
	SB3 31'	Initial	22081223-009	S	196351	196351	08/15/2022 17:45	08/15/2022 17:45
	SB3 22'	Initial	22081223-010	S	196351	196351	08/15/2022 17:45	08/15/2022 17:45
	SB4 28'	Initial	22081223-011	S	196351	196351	08/15/2022 17:45	08/15/2022 17:45
	SB4 34'	Initial	22081223-012	S	196351	196351	08/15/2022 17:45	08/15/2022 17:45
	SB5 25'	Initial	22081223-013	S	196351	196351	08/15/2022 17:45	08/15/2022 17:45
	SB5 37'	Initial	22081223-014	S	196351	196351	08/15/2022 17:45	08/15/2022 17:45
	SB6 39'	Initial	22081223-015	S	196351	196351	08/15/2022 17:45	08/15/2022 17:45
	SB6 44'	Initial	22081223-016	S	196351	196351	08/15/2022 17:45	08/15/2022 17:45
	196351-1-BLK	BLK	196351-1-BLK	S	196351	196351	08/15/2022 17:45	08/15/2022 17:45
	SB8 39' D	MD	22081223-001 D	S	196351	196351	08/15/2022 17:45	08/15/2022 17:45
	SB4 34' D	MD	22081223-012 D	S	196351	196351	08/15/2022 17:45	08/15/2022 17:45
SW-846 8015C DRO	SB8 43'	Initial	22081223-002	S	91917	196433	08/17/2022 09:03	08/17/2022 22:00
	SB7 12'	Initial	22081223-004	S	91917	196433	08/17/2022 09:03	08/17/2022 22:24
	SB2 32'	Initial	22081223-007	S	91917	196433	08/17/2022 09:03	08/17/2022 22:49
	SB3 31'	Initial	22081223-009	S	91917	196433	08/17/2022 09:03	08/17/2022 23:14
	SB4 28'	Initial	22081223-011	S	91917	196433	08/17/2022 09:03	08/17/2022 23:39
	SB5 25'	Initial	22081223-013	S	91917	196433	08/17/2022 09:03	08/18/2022 00:04
	91917-1-BKS	BKS	91917-1-BKS	S	91917	196433	08/17/2022 09:03	08/17/2022 12:27
	91917-1-BLK	BLK	91917-1-BLK	S	91917	196433	08/17/2022 09:03	08/17/2022 12:02
	91917-1-BSD	BSD	91917-1-BSD	S	91917	196433	08/17/2022 09:03	08/17/2022 12:52
	SB8 39'	Initial	22081223-001	S	91917	196434	08/17/2022 09:03	08/17/2022 21:35
	SB7 40'	Initial	22081223-003	S	91917	196434	08/17/2022 09:03	08/17/2022 22:00
	SB1 34'	Initial	22081223-005	S	91917	196434	08/17/2022 09:03	08/17/2022 13:17
	SB1 23'	Initial	22081223-006	S	91917	196434	08/17/2022 09:03	08/17/2022 22:24
	SB2 41'	Initial	22081223-008	S	91917	196434	08/17/2022 09:03	08/17/2022 22:49
	SB3 22'	Initial	22081223-010	S	91917	196434	08/17/2022 09:03	08/17/2022 23:14
	SB4 34'	Initial	22081223-012	S	91917	196434	08/17/2022 09:03	08/17/2022 23:39
	SB6 44'	Initial	22081223-016	S	91917	196434	08/17/2022 09:03	08/18/2022 00:04
	SB1 34' S	MS	22081223-005 S	S	91917	196434	08/17/2022 09:03	08/17/2022 12:27
	SB1 34' SD	MSD	22081223-005 S	S	91917	196434	08/17/2022 09:03	08/17/2022 12:52
	SB5 37'	Initial	22081223-014	S	91917	196456	08/17/2022 09:03	08/18/2022 12:41
	SB6 39'	Initial	22081223-015	S	91917	196456	08/17/2022 09:03	08/18/2022 11:02
SW-846 8015C GRO	SB8 39'	Initial	22081223-001	S	91955	196447	08/18/2022 09:42	08/18/2022 12:33
	SB8 43'	Initial	22081223-002	S	91955	196447	08/18/2022 09:42	08/18/2022 12:58
	SB7 40'	Initial	22081223-003	S	91955	196447	08/18/2022 09:42	08/18/2022 13:22
	SB7 12'	Initial	22081223-004	S	91955	196447	08/18/2022 09:42	08/18/2022 13:47
	SB1 34'	Initial	22081223-005	S	91955	196447	08/18/2022 09:42	08/18/2022 14:11

Lab Chronology

6630 Baltimore National Pike
Baltimore, MD 21228
410-747-8770
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Project Name: Chestertown
PSS Project No.: 22081223

Method	Client Sample ID	Analysis Type	PSS Sample ID	Mtx	Prep Batch	Analytical Batch	Prepared	Analyzed
SW-846 8015C GRO	SB1 23'	Initial	22081223-006	S	91955	196447	08/18/2022 09:42	08/18/2022 14:36
	SB2 32'	Initial	22081223-007	S	91955	196447	08/18/2022 09:42	08/18/2022 15:00
	SB2 41'	Initial	22081223-008	S	91955	196447	08/18/2022 09:42	08/18/2022 15:25
	SB3 31'	Initial	22081223-009	S	91955	196447	08/18/2022 09:42	08/18/2022 15:49
	SB3 22'	Initial	22081223-010	S	91955	196447	08/18/2022 09:42	08/18/2022 16:14
	SB4 28'	Initial	22081223-011	S	91955	196447	08/18/2022 09:42	08/18/2022 16:38
	SB4 34'	Initial	22081223-012	S	91955	196447	08/18/2022 09:42	08/18/2022 17:03
	SB5 25'	Initial	22081223-013	S	91955	196447	08/18/2022 09:42	08/18/2022 17:27
	SB5 37'	Initial	22081223-014	S	91955	196447	08/18/2022 09:42	08/18/2022 17:52
	SB6 39'	Initial	22081223-015	S	91955	196447	08/18/2022 09:42	08/18/2022 18:16
	SB6 44'	Initial	22081223-016	S	91955	196447	08/18/2022 09:42	08/18/2022 18:41
	91955-2-BKS	BKS	91955-2-BKS	S	91955	196447	08/18/2022 09:42	08/18/2022 10:06
	91955-2-BLK	BLK	91955-2-BLK	S	91955	196447	08/18/2022 09:42	08/18/2022 11:44
	91955-2-BSD	BSD	91955-2-BSD	S	91955	196447	08/18/2022 09:42	08/18/2022 10:31
	081622-OP-F1545 S	MS	22081619-001 S	S	91955	196447	08/18/2022 09:42	08/18/2022 10:55
	081622-OP-F1545 SD	MSD	22081619-001 S	S	91955	196447	08/18/2022 09:42	08/18/2022 11:20
SW-846 8260 D	SB8 39'	Initial	22081223-001	S	91977	196498	08/20/2022 07:50	08/20/2022 12:40
	SB8 43'	Initial	22081223-002	S	91977	196498	08/20/2022 07:50	08/20/2022 13:02
	SB7 40'	Initial	22081223-003	S	91977	196498	08/20/2022 07:50	08/20/2022 13:24
	SB7 12'	Initial	22081223-004	S	91977	196498	08/20/2022 07:50	08/20/2022 13:46
	SB1 34'	Initial	22081223-005	S	91977	196498	08/20/2022 07:50	08/20/2022 14:09
	SB1 23'	Initial	22081223-006	S	91977	196498	08/20/2022 07:50	08/20/2022 14:31
	SB2 32'	Initial	22081223-007	S	91977	196498	08/20/2022 07:50	08/20/2022 14:53
	SB2 41'	Initial	22081223-008	S	91977	196498	08/20/2022 07:50	08/20/2022 15:16
	SB3 31'	Initial	22081223-009	S	91977	196498	08/20/2022 07:50	08/20/2022 15:38
	SB3 22'	Initial	22081223-010	S	91977	196498	08/20/2022 07:50	08/20/2022 16:00
	SB4 28'	Initial	22081223-011	S	91977	196498	08/20/2022 07:50	08/20/2022 16:22
	SB4 34'	Initial	22081223-012	S	91977	196498	08/20/2022 07:50	08/20/2022 16:45
	SB5 25'	Initial	22081223-013	S	91977	196498	08/20/2022 07:50	08/20/2022 17:07
	SB6 44'	Initial	22081223-016	S	91977	196498	08/20/2022 07:50	08/20/2022 17:29
	91977-1-BKS	BKS	91977-1-BKS	S	91977	196498	08/20/2022 07:50	08/20/2022 08:12
	91977-1-BLK	BLK	91977-1-BLK	S	91977	196498	08/20/2022 07:50	08/20/2022 10:48
	91977-1-BSD	BSD	91977-1-BSD	S	91977	196498	08/20/2022 07:50	08/20/2022 08:34
	EX-1/11FT S	MS	22081705-001 S	S	91977	196498	08/20/2022 07:50	08/20/2022 08:57
	EX-1/11FT SD	MSD	22081705-001 S	S	91977	196498	08/20/2022 07:50	08/20/2022 09:19
	SB5 37'	Initial	22081223-014	S	91999	196533	08/22/2022 07:52	08/22/2022 13:10
	SB6 39'	Initial	22081223-015	S	91999	196533	08/22/2022 07:52	08/22/2022 12:48
	91999-1-BKS	BKS	91999-1-BKS	S	91999	196533	08/22/2022 07:52	08/22/2022 08:20
	91999-1-BLK	BLK	91999-1-BLK	S	91999	196533	08/22/2022 07:52	08/22/2022 12:03
	91999-1-BSD	BSD	91999-1-BSD	S	91999	196533	08/22/2022 07:52	08/22/2022 08:43
	SBP-23-4-5 S	MS	22081711-014 S	S	91999	196533	08/22/2022 07:52	08/22/2022 09:05
	SBP-23-4-5 SD	MSD	22081711-014 S	S	91999	196533	08/22/2022 07:52	08/22/2022 09:27

PHASE**S**EPARATION**S**CIENCE**QC Summary**

6630 Baltimore National Pike

Baltimore, MD 21228

410-747-8770

800-932-9047

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Project Name Chestertown

PSS Project No.: 22081223

Analytical Method: SM2540G

Seq Number: 196351

Matrix: Soil

Parent Sample Id: 22081223-001

MD Sample Id: 22081223-001 D

Parameter	Parent Result	MD Result	RPD	RPD Limit	Units	Flag
Solids, percent	90.3	90.4	0	10	%	

Analytical Method: SM2540G

Seq Number: 196351

Matrix: Soil

Parent Sample Id: 22081223-012

MD Sample Id: 22081223-012 D

Parameter	Parent Result	MD Result	RPD	RPD Limit	Units	Flag
Solids, percent	86.0	85.7	0	10	%	

Analytical Method: SW-846 8015C DRO

Seq Number: 196433

Matrix: Solid

MB Sample Id: 91917-1-BLK

LCS Sample Id: 91917-1-BKS

Prep Method: SW3550C

Date Prep: 08/17/22

LCSD Sample Id: 91917-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	RPD	RPD Limit	Units	Flag
TPH-DRO (Diesel Range Organics)	<3.373	32.87	31.78	97	30.86	92	67-118	3	22	mg/kg	
Surrogate											
	MB %Rec	MB Flag	LCS Result	LCS Flag	LCSD Result	LCSD Flag	Limits			Units	
o-Terphenyl	81		92		87		39-119			%	

Analytical Method: SW-846 8015C DRO

Seq Number: 196434

Matrix: Soil

Parent Sample Id: 22081223-005

MS Sample Id: 22081223-005 S

Prep Method: SW3550C

Date Prep: 08/17/22

MSD Sample Id: 22081223-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	RPD	RPD Limit	Units	Flag
TPH-DRO (Diesel Range Organics)	<3.947	39.81	31.92	80	31.10	79	42-127	3	31	mg/kg	
Surrogate											
		MS Result	MS Flag		MSD Result	MSD Flag	Limits			Units	
o-Terphenyl		87			85		39-119			%	

PHASE**S**EPARATION**S**CIENCE**QC Summary**

6630 Baltimore National Pike

Baltimore, MD 21228

410-747-8770

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Project Name Chestertown

PSS Project No.: 22081223

Analytical Method: SW-846 8015C GRO

Seq Number: 196447

Matrix: Solid

Prep Method: SW5030

MB Sample Id: 91955-2-BLK

LCS Sample Id: 91955-2-BKS

Date Prep: 08/18/22

LCSD Sample Id: 91955-2-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	RPD	RPD Limit	Units	Flag
TPH-GRO (Gasoline Range Organic)	<0.1000	5.000	5.019	100	4.932	99	77-117	2	25	mg/kg	
Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	LCSD Result	LCSD Flag	Limits			Units	
a,a,a-Trifluorotoluene	96		107		109		68-120			%	

Project Name Chestertown

PSS Project No.: 22081223

Analytical Method: SW-846 8260 D

Seq Number: 196498

Matrix: Solid

Prep Method: SW5030

MB Sample Id: 91977-1-BLK

LCS Sample Id: 91977-1-BKS

Date Prep: 08/20/22

LCSD Sample Id: 91977-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	RPD	RPD Limit	Units	Flag
Acetone	<0.02000	0.06000	0.06291	105	0.06337	106	40-147	1	25	mg/kg	
Benzene	<0.001000	0.06000	0.06029	100	0.05999	100	85-118	0	25	mg/kg	
Bromochloromethane	<0.001000	0.06000	0.06218	104	0.05948	99	84-121	4	25	mg/kg	
Bromodichloromethane	<0.001000	0.06000	0.06383	106	0.06482	108	88-121	2	25	mg/kg	
Bromoform	<0.001000	0.06000	0.06416	107	0.06563	109	78-129	2	25	mg/kg	
Bromomethane	<0.001000	0.06000	0.05627	94	0.05612	94	66-117	0	25	mg/kg	
2-Butanone (MEK)	<0.005000	0.06000	0.06147	102	0.06045	101	62-115	2	25	mg/kg	
Carbon Disulfide	<0.001000	0.06000	0.06221	104	0.06064	101	79-128	3	25	mg/kg	
Carbon tetrachloride	<0.001000	0.06000	0.06381	106	0.06252	104	87-121	2	25	mg/kg	
Chlorobenzene	<0.001000	0.06000	0.06148	102	0.06133	102	85-119	0	25	mg/kg	
Chloroethane	<0.001000	0.06000	0.05956	99	0.06012	100	75-115	1	25	mg/kg	
Chloroform	<0.005000	0.06000	0.05797	97	0.05672	95	82-116	2	25	mg/kg	
Chloromethane	<0.001000	0.06000	0.06007	100	0.05925	99	69-124	1	25	mg/kg	
Cyclohexane	<0.001000	0.06000	0.06170	103	0.05997	100	72-132	3	25	mg/kg	
1,2-Dibromo-3-chloropropane	<0.001000	0.06000	0.06649	111	0.07046	117	64-141	6	25	mg/kg	
Dibromochloromethane	<0.001000	0.06000	0.06718	112	0.06810	114	87-122	1	25	mg/kg	
1,2-Dibromoethane	<0.001000	0.06000	0.06436	107	0.06443	107	87-117	0	25	mg/kg	
1,2-Dichlorobenzene	<0.001000	0.06000	0.06159	103	0.06103	102	83-121	1	25	mg/kg	
1,3-Dichlorobenzene	<0.001000	0.06000	0.06198	103	0.06103	102	84-121	2	25	mg/kg	
1,4-Dichlorobenzene	<0.001000	0.06000	0.06172	103	0.06105	102	84-121	1	25	mg/kg	
Dichlorodifluoromethane	<0.001000	0.06000	0.05932	99	0.05894	98	56-134	1	25	mg/kg	
1,1-Dichloroethane	<0.001000	0.06000	0.06252	104	0.06150	103	83-120	2	25	mg/kg	
1,2-Dichloroethane	<0.001000	0.06000	0.06098	102	0.05925	99	85-118	3	25	mg/kg	
1,1-Dichloroethene	<0.001000	0.06000	0.06015	100	0.05994	100	83-122	0	25	mg/kg	
1,2-Dichloropropane	<0.001000	0.06000	0.06344	106	0.06398	107	84-120	1	25	mg/kg	
cis-1,2-Dichloroethene	<0.001000	0.06000	0.05916	99	0.05879	98	84-120	1	25	mg/kg	
cis-1,3-Dichloropropene	<0.001000	0.06000	0.06209	103	0.06350	106	84-120	2	25	mg/kg	
trans-1,2-Dichloroethene	<0.001000	0.06000	0.06041	101	0.06018	100	84-121	0	25	mg/kg	
trans-1,3-Dichloropropene	<0.001000	0.06000	0.06227	104	0.06345	106	80-123	2	25	mg/kg	
Ethylbenzene	<0.001000	0.06000	0.06315	105	0.06256	104	87-121	1	25	mg/kg	
2-Hexanone (MBK)	<0.001000	0.06000	0.06318	105	0.06593	110	72-119	4	25	mg/kg	
Isopropylbenzene	<0.001000	0.06000	0.06248	104	0.06179	103	85-121	1	25	mg/kg	
Methyl Acetate	<0.02500	0.06000	0.05889	98	0.06309	105	75-123	7	25	mg/kg	
Methylcyclohexane	<0.001000	0.06000	0.06068	101	0.06260	104	84-123	3	25	mg/kg	
Methylene chloride	<0.005000	0.06000	0.05939	99	0.05911	99	81-117	0	25	mg/kg	
4-Methyl-2-Pentanone (MIBK)	<0.001000	0.06000	0.06263	104	0.06463	108	75-118	3	25	mg/kg	
Methyl-t-Butyl Ether	<0.001000	0.06000	0.09749	162	0.09472	158	74-122	3	25	mg/kg	H
Naphthalene	<0.001000	0.06000	0.06772	113	0.07114	119	77-120	5	25	mg/kg	
Styrene	<0.001000	0.06000	0.06538	109	0.06263	104	83-124	4	25	mg/kg	
1,1,2,2-Tetrachloroethane	<0.001000	0.06000	0.06465	108	0.06454	108	75-123	0	25	mg/kg	
Tetrachloroethene	<0.001000	0.06000	0.06086	101	0.06199	103	82-119	2	25	mg/kg	
Toluene	<0.001000	0.06000	0.05919	99	0.06097	102	84-118	3	25	mg/kg	
1,2,3-Trichlorobenzene	<0.001000	0.06000	0.06530	109	0.06800	113	76-127	4	25	mg/kg	
1,2,4-Trichlorobenzene	<0.001000	0.06000	0.06465	108	0.06650	111	82-131	3	25	mg/kg	
1,1,1-Trichloroethane	<0.001000	0.06000	0.06787	113	0.06709	112	84-121	1	25	mg/kg	
1,1,2-Trichloroethane	<0.001000	0.06000	0.05998	100	0.06323	105	83-118	5	25	mg/kg	
Trichloroethene	<0.001000	0.06000	0.06056	101	0.06015	100	85-118	1	25	mg/kg	
Trichlorofluoromethane	<0.001000	0.06000	0.06059	101	0.05961	99	81-121	2	25	mg/kg	
1,1,2-Trichlorotrifluoroethane	<0.001000	0.06000	0.06079	101	0.06033	101	83-122	1	25	mg/kg	
Vinyl chloride	<0.005000	0.06000	0.06266	104	0.06257	104	69-129	0	25	mg/kg	
m&p-Xylene	<0.002000	0.1200	0.1279	107	0.1244	104	86-123	3	25	mg/kg	

PHASE**S**EPARATION**S**CIENCE**QC Summary**

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Project Name Chestertown

PSS Project No.: 22081223

Analytical Method: SW-846 8260 D

Seq Number: 196498

Matrix: Solid

Prep Method: SW5030

MB Sample Id: 91977-1-BLK

LCS Sample Id: 91977-1-BKS

Date Prep: 08/20/22

LCSD Sample Id: 91977-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	RPD	RPD Limit	Units	Flag
o-Xylene	<0.001000	0.06000	0.06436	107	0.06287	105	84-121	2	25	mg/kg	
Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	LCSD Result	LCSD Flag	Limits			Units	
4-Bromofluorobenzene	102		102		101		89-111			%	
Dibromofluoromethane	98		101		98		91-108			%	
Toluene-D8	101		101		100		93-104			%	

Project Name Chestertown

PSS Project No.: 22081223

Analytical Method: SW-846 8260 D

Seq Number: 196533

MB Sample Id: 91999-1-BLK

Matrix: Solid

LCS Sample Id: 91999-1-BKS

Prep Method: SW5035A

Date Prep: 08/22/22

LCSD Sample Id: 91999-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	RPD	RPD Limit	Units	Flag
Acetone	<0.02000	0.06000	0.05455	91	0.05937	99	40-147	8	25	mg/kg	
Benzene	<0.001000	0.06000	0.05801	97	0.05683	95	85-118	2	25	mg/kg	
Bromochloromethane	<0.001000	0.06000	0.05745	96	0.05887	98	84-121	2	25	mg/kg	
Bromodichloromethane	<0.001000	0.06000	0.06027	100	0.05961	99	88-121	1	25	mg/kg	
Bromoform	<0.001000	0.06000	0.05602	93	0.05788	96	78-129	3	25	mg/kg	
Bromomethane	<0.001000	0.06000	0.05339	89	0.05024	84	66-117	6	25	mg/kg	
2-Butanone (MEK)	<0.005000	0.06000	0.05573	93	0.05749	96	62-115	3	25	mg/kg	
Carbon Disulfide	<0.001000	0.06000	0.05773	96	0.05587	93	79-128	3	25	mg/kg	
Carbon tetrachloride	<0.001000	0.06000	0.06045	101	0.05753	96	87-121	5	25	mg/kg	
Chlorobenzene	<0.001000	0.06000	0.05726	95	0.05625	94	85-119	2	25	mg/kg	
Chloroethane	<0.001000	0.06000	0.05627	94	0.05433	91	75-115	4	25	mg/kg	
Chloroform	<0.005000	0.06000	0.05458	91	0.05402	90	82-116	1	25	mg/kg	
Chloromethane	<0.001000	0.06000	0.05587	93	0.05381	90	69-124	4	25	mg/kg	
Cyclohexane	<0.001000	0.06000	0.05930	99	0.05738	96	72-132	3	25	mg/kg	
1,2-Dibromo-3-chloropropane	<0.001000	0.06000	0.05464	91	0.05858	98	64-141	7	25	mg/kg	
Dibromochloromethane	<0.001000	0.06000	0.06163	103	0.06312	105	87-122	2	25	mg/kg	
1,2-Dibromoethane	<0.001000	0.06000	0.05776	96	0.05985	100	87-117	4	25	mg/kg	
1,2-Dichlorobenzene	<0.001000	0.06000	0.05854	98	0.05766	96	83-121	2	25	mg/kg	
1,3-Dichlorobenzene	<0.001000	0.06000	0.05875	98	0.05740	96	84-121	2	25	mg/kg	
1,4-Dichlorobenzene	<0.001000	0.06000	0.05911	99	0.05757	96	84-121	3	25	mg/kg	
Dichlorodifluoromethane	<0.001000	0.06000	0.05404	90	0.05043	84	56-134	7	25	mg/kg	
1,1-Dichloroethane	<0.001000	0.06000	0.05918	99	0.05802	97	83-120	2	25	mg/kg	
1,2-Dichloroethane	<0.001000	0.06000	0.05575	93	0.05416	90	85-118	3	25	mg/kg	
1,1-Dichloroethene	<0.001000	0.06000	0.05773	96	0.05597	93	83-122	3	25	mg/kg	
1,2-Dichloropropane	<0.001000	0.06000	0.05933	99	0.05853	98	84-120	1	25	mg/kg	
cis-1,2-Dichloroethene	<0.001000	0.06000	0.05896	98	0.05758	96	84-120	2	25	mg/kg	
cis-1,3-Dichloropropene	<0.001000	0.06000	0.05599	93	0.05440	91	84-120	3	25	mg/kg	
trans-1,2-Dichloroethene	<0.001000	0.06000	0.05669	94	0.05676	95	84-121	0	25	mg/kg	
trans-1,3-Dichloropropene	<0.001000	0.06000	0.05359	89	0.05466	91	80-123	2	25	mg/kg	
Ethylbenzene	<0.001000	0.06000	0.05824	97	0.05707	95	87-121	2	25	mg/kg	
2-Hexanone (MBK)	<0.001000	0.06000	0.05733	96	0.05974	100	72-119	4	25	mg/kg	
Isopropylbenzene	<0.001000	0.06000	0.06042	101	0.05869	98	85-121	3	25	mg/kg	
Methyl Acetate	<0.02500	0.06000	0.05146	86	0.05640	94	75-123	9	25	mg/kg	
Methylcyclohexane	<0.001000	0.06000	0.05822	97	0.05764	96	84-123	1	25	mg/kg	
Methylene chloride	<0.005000	0.06000	0.05493	92	0.05521	92	81-117	1	25	mg/kg	
4-Methyl-2-Pentanone (MIBK)	<0.001000	0.06000	0.05706	95	0.05811	97	75-118	2	25	mg/kg	
Methyl-t-Butyl Ether	<0.001000	0.06000	0.06459	108	0.06711	112	74-122	4	25	mg/kg	
Naphthalene	<0.001000	0.06000	0.05774	96	0.06167	103	77-120	7	25	mg/kg	
Styrene	<0.001000	0.06000	0.05682	95	0.05801	97	83-124	2	25	mg/kg	
1,1,2,2-Tetrachloroethane	<0.001000	0.06000	0.05844	97	0.06060	101	75-123	4	25	mg/kg	
Tetrachloroethene	<0.001000	0.06000	0.05878	98	0.05686	95	82-119	3	25	mg/kg	
Toluene	<0.001000	0.06000	0.05641	94	0.05522	92	84-118	2	25	mg/kg	
1,2,3-Trichlorobenzene	<0.001000	0.06000	0.05735	96	0.05896	98	76-127	3	25	mg/kg	
1,2,4-Trichlorobenzene	<0.001000	0.06000	0.05860	98	0.05853	98	82-131	0	25	mg/kg	
1,1,1-Trichloroethane	<0.001000	0.06000	0.06328	105	0.06139	102	84-121	3	25	mg/kg	
1,1,2-Trichloroethane	<0.001000	0.06000	0.05685	95	0.05722	95	83-118	1	25	mg/kg	
Trichloroethene	<0.001000	0.06000	0.05795	97	0.05612	94	85-118	3	25	mg/kg	
Trichlorofluoromethane	<0.001000	0.06000	0.05839	97	0.05603	93	81-121	4	25	mg/kg	
1,1,2-Trichlorotrifluoroethane	<0.001000	0.06000	0.05776	96	0.05609	93	83-122	3	25	mg/kg	
Vinyl chloride	<0.005000	0.06000	0.06048	101	0.05624	94	69-129	7	25	mg/kg	
m&p-Xylene	<0.002000	0.1200	0.1179	98	0.1169	97	86-123	1	25	mg/kg	

PHASE**S**EPARATION**S**CIENCE**QC Summary**

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Project Name Chestertown

PSS Project No.: 22081223

Analytical Method: SW-846 8260 D

Seq Number: 196533

Matrix: Solid

Prep Method: SW5035A

MB Sample Id: 91999-1-BLK

LCS Sample Id: 91999-1-BKS

Date Prep: 08/22/22

LCSD Sample Id: 91999-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	RPD	RPD Limit	Units	Flag
o-Xylene	<0.001000	0.06000	0.05731	96	0.05586	93	84-121	3	25	mg/kg	
Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	LCSD Result	LCSD Flag	Limits			Units	
4-Bromofluorobenzene	101		103		102		89-111			%	
Dibromofluoromethane	97		99		101		91-108			%	
Toluene-D8	99		99		99		93-104			%	

F = RPD exceeded the laboratory control limits

X = Recovery of MS, MSD or both outside of QC Criteria

H= Recovery of BS,BSD or both exceeded the laboratory control limits

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

Project Name Chestertown

PSS Project No.: 22081223

Analytical Method: SW-846 8015 C TCLP

Seq Number:	192711	Matrix:	Water			
Parent Sample Id:	ICV-01	ICV Sample Id:	ICV-01	Analyzed Date:	03/29/22 16:06	
Parameter	Spike Amount	ICV Result	ICV %Rec	Limits	Units	Flag
TPH-DRO (Diesel Range Organics)	2500	2418	97	80-120	mg/L	
Surrogate	ICV Result			Limits	Units	Flag
o-Terphenyl	97			80-120	%	

Analytical Method: SW-846 8015C DRO

Seq Number:	196433	Matrix:	Water			
CCV Sample Id:	CCV-R1	Analyzed Date:	08/17/22 10:24			
Parameter	Spike Amount	CCV Result	CCV %Rec	Limits	Units	Flag
TPH-DRO (Diesel Range Organics)	2500	2306	92	80-120	mg/L	
Surrogate	CCV Result			Limits	Units	Flag
o-Terphenyl	89			80-120	%	

Analytical Method: SW-846 8015C DRO

Seq Number:	196434	Matrix:	Water			
CCV Sample Id:	CCV-F1	Analyzed Date:	08/17/22 10:24			
Parameter	Spike Amount	CCV Result	CCV %Rec	Limits	Units	Flag
TPH-DRO (Diesel Range Organics)	2500	2636	105	80-120	mg/L	
Surrogate	CCV Result			Limits	Units	Flag
o-Terphenyl	97			80-120	%	

Analytical Method: SW-846 8015C DRO

Seq Number:	196433	Matrix:	Water			
CCV Sample Id:	CCV-R2	Analyzed Date:	08/17/22 18:40			
Parameter	Spike Amount	CCV Result	CCV %Rec	Limits	Units	Flag
TPH-DRO (Diesel Range Organics)	2500	2567	103	80-120	mg/L	
Surrogate	CCV Result			Limits	Units	Flag
o-Terphenyl	99			80-120	%	

Project Name Chestertown

PSS Project No.: 22081223

Analytical Method: SW-846 8015C DRO

Seq Number: 196434 Matrix: Water

CCV Sample Id: CCV-F2

Analyzed Date: 08/17/22 18:40

Parameter	Spike Amount	CCV Result	CCV %Rec	Limits	Units	Flag
TPH-DRO (Diesel Range Organics)	2500	2633	105	80-120	mg/L	
Surrogate		CCV Result		Limits	Units	Flag
o-Terphenyl		99		80-120	%	

Analytical Method: SW-846 8015C DRO

Seq Number: 196433 Matrix: Water

CCV Sample Id: CCV-R3

Analyzed Date: 08/18/22 01:43

Parameter	Spike Amount	CCV Result	CCV %Rec	Limits	Units	Flag
TPH-DRO (Diesel Range Organics)	2500	2685	107	80-120	mg/L	
Surrogate		CCV Result		Limits	Units	Flag
o-Terphenyl		104		80-120	%	

Analytical Method: SW-846 8015C DRO

Seq Number: 196434 Matrix: Water

CCV Sample Id: CCV-F3

Analyzed Date: 08/18/22 01:43

Parameter	Spike Amount	CCV Result	CCV %Rec	Limits	Units	Flag
TPH-DRO (Diesel Range Organics)	2500	2565	103	80-120	mg/L	
Surrogate		CCV Result		Limits	Units	Flag
o-Terphenyl		94		80-120	%	

Analytical Method: SW-846 8015C DRO

Seq Number: 196456 Matrix: Water

CCV Sample Id: CCV-R1

Analyzed Date: 08/18/22 10:12

Parameter	Spike Amount	CCV Result	CCV %Rec	Limits	Units	Flag
TPH-DRO (Diesel Range Organics)	2500	2325	93	80-120	mg/L	
Surrogate		CCV Result		Limits	Units	Flag
o-Terphenyl		88		80-120	%	

Project Name Chestertown

PSS Project No.: 22081223

Analytical Method: SW-846 8015C DRO

Seq Number: 196456 Matrix: Water

CCV Sample Id: CCV-R2

Analyzed Date: 08/18/22 14:46

Parameter	Spike Amount	CCV Result	CCV %Rec	Limits	Units	Flag
TPH-DRO (Diesel Range Organics)	2500	2365	95	80-120	mg/L	
Surrogate		CCV Result		Limits	Units	Flag
o-Terphenyl		89		80-120	%	

Analytical Method: SW-846 8015C DRO

Seq Number: 191075 Matrix: Water

Parent Sample Id: ICV-01

ICV Sample Id: ICV-01

Analyzed Date: 01/27/22 17:43

Parameter	Spike Amount	ICV Result	ICV %Rec	Limits	Units	Flag
TPH-DRO (Diesel Range Organics)	2500	2796	112	80-120	mg/L	
Surrogate		ICV Result		Limits	Units	Flag
o-Terphenyl		113		80-120	%	

Analytical Method: SW-846 8015C GRO

Seq Number: 196447 Matrix: Water

CCV Sample Id: CCV, GRO-1

Analyzed Date: 08/18/22 09:42

Parameter	Spike Amount	CCV Result	CCV %Rec	Limits	Units	Flag
TPH-GRO (Gasoline Range Organic:	5000	5218	104	80-120	ug/L	
Surrogate		CCV Result		Limits	Units	Flag
a,a,a-Trifluorotoluene		107		80-120	%	

Analytical Method: SW-846 8015C GRO

Seq Number: 196447 Matrix: Water

CCV Sample Id: CCV, GRO-2

Analyzed Date: 08/18/22 20:18

Parameter	Spike Amount	CCV Result	CCV %Rec	Limits	Units	Flag
TPH-GRO (Gasoline Range Organic:	5000	4529	91	80-120	ug/L	
Surrogate		CCV Result		Limits	Units	Flag
a,a,a-Trifluorotoluene		105		80-120	%	

PHASE

SEPARATION

SCIENCE

QC Summary

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Project Name Chestertown

PSS Project No.: 22081223

Analytical Method: SW-846 8015C GRO

Seq Number:	193872	Matrix:	Water	ICV Sample Id:	ICV-01	Analyzed Date:	05/12/22 13:52
Parent Sample Id:	ICV-01	Spike Amount	ICV Result	ICV %Rec	Limits	Units	Flag
TPH-GRO (Gasoline Range Organic:	5000	5613	112	80-120		ug/L	
Surrogate		ICV Result		Limits	Units	Flag	
a,a,a-Trifluorotoluene		105		80-120	%		

Project Name Chestertown

PSS Project No.: 22081223

Analytical Method: SW-846 8260 D

Seq Number: 196498

Matrix: Solid

CCV Sample Id: CCV, VOC-1

Analyzed Date: 08/20/22 07:50

Parameter	Spike Amount	CCV Result	CCV %Rec	Limits	Units	Flag
Acetone	0.06000	0.06533	109	80-120	mg/kg	
Benzene	0.06000	0.05846	97	80-120	mg/kg	
Bromochloromethane	0.06000	0.05856	98	80-120	mg/kg	
Bromodichloromethane	0.06000	0.06129	102	80-120	mg/kg	
Bromoform	0.06000	0.05573	93	80-120	mg/kg	
Bromomethane	0.06000	0.05849	97	80-120	mg/kg	
2-Butanone (MEK)	0.06000	0.05591	93	80-120	mg/kg	
Carbon Disulfide	0.06000	0.06327	105	80-120	mg/kg	
Carbon tetrachloride	0.06000	0.06348	106	80-120	mg/kg	
Chlorobenzene	0.06000	0.05844	97	80-120	mg/kg	
Chloroethane	0.06000	0.05999	100	80-120	mg/kg	
Chloroform	0.06000	0.05585	93	80-120	mg/kg	
Chloromethane	0.06000	0.06147	102	80-120	mg/kg	
Cyclohexane	0.06000	0.05950	99	80-120	mg/kg	
1,2-Dibromo-3-chloropropane	0.06000	0.05490	92	80-120	mg/kg	
Dibromochloromethane	0.06000	0.06163	103	80-120	mg/kg	
1,2-Dibromoethane	0.06000	0.05752	96	80-120	mg/kg	
1,2-Dichlorobenzene	0.06000	0.05549	92	80-120	mg/kg	
1,3-Dichlorobenzene	0.06000	0.05606	93	80-120	mg/kg	
1,4-Dichlorobenzene	0.06000	0.05599	93	80-120	mg/kg	
Dichlorodifluoromethane	0.06000	0.05794	97	80-120	mg/kg	
1,1-Dichloroethane	0.06000	0.06228	104	80-120	mg/kg	
1,2-Dichloroethane	0.06000	0.05467	91	80-120	mg/kg	
1,1-Dichloroethene	0.06000	0.06025	100	80-120	mg/kg	
1,2-Dichloropropane	0.06000	0.06029	100	80-120	mg/kg	
cis-1,2-Dichloroethene	0.06000	0.05949	99	80-120	mg/kg	
cis-1,3-Dichloropropene	0.06000	0.05899	98	80-120	mg/kg	
trans-1,2-Dichloroethene	0.06000	0.06032	101	80-120	mg/kg	
trans-1,3-Dichloropropene	0.06000	0.05756	96	80-120	mg/kg	
Ethylbenzene	0.06000	0.05907	98	80-120	mg/kg	
2-Hexanone (MBK)	0.06000	0.05486	91	80-120	mg/kg	
Isopropylbenzene	0.06000	0.06010	100	80-120	mg/kg	
Methyl Acetate	0.06000	0.05361	89	80-120	mg/kg	
Methylcyclohexane	0.06000	0.05831	97	80-120	mg/kg	
Methylene chloride	0.06000	0.05765	96	80-120	mg/kg	
4-Methyl-2-Pantanone (MIBK)	0.06000	0.05656	94	80-120	mg/kg	
Methyl-t-Butyl Ether	0.06000	0.09533	159	80-120	mg/kg	X
Naphthalene	0.06000	0.05143	86	80-120	mg/kg	
Styrene	0.06000	0.05910	99	80-120	mg/kg	
1,1,2,2-Tetrachloroethane	0.06000	0.05496	92	80-120	mg/kg	
Tetrachloroethene	0.06000	0.05697	95	80-120	mg/kg	
Toluene	0.06000	0.05800	97	80-120	mg/kg	
1,2,3-Trichlorobenzene	0.06000	0.04960	83	80-120	mg/kg	
1,2,4-Trichlorobenzene	0.06000	0.05131	86	80-120	mg/kg	
1,1,1-Trichloroethane	0.06000	0.06820	114	80-120	mg/kg	
1,1,2-Trichloroethane	0.06000	0.05636	94	80-120	mg/kg	
Trichloroethene	0.06000	0.05829	97	80-120	mg/kg	
Trichlorofluoromethane	0.06000	0.05934	99	80-120	mg/kg	
1,1,2-Trichlorotrifluoroethane	0.06000	0.05875	98	80-120	mg/kg	
Vinyl chloride	0.06000	0.06643	111	80-120	mg/kg	
m&p-Xylene	0.1200	0.1193	99	80-120	mg/kg	

PHASE**S**EPARATION**S**CIENCE**QC Summary**

6630 Baltimore National Pike

Baltimore, MD 21228

410-747-8770

800-932-9047

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Project Name Chestertown

PSS Project No.: 22081223

Analytical Method: SW-846 8260 D

Seq Number: 196498

Matrix: Solid

CCV Sample Id: CCV, VOC-1

Analyzed Date: 08/20/22 07:50

Parameter	Spike Amount	CCV Result	CCV %Rec	Limits	Units	Flag
o-Xylene	0.06000	0.05897	98	80-120	mg/kg	
Surrogate		CCV Result		Limits	Units	Flag
4-Bromofluorobenzene		101		80-120	%	
Dibromofluoromethane		100		80-120	%	
Toluene-D8		98		80-120	%	

Project Name Chestertown

PSS Project No.: 22081223

Analytical Method: SW-846 8260 D

Seq Number: 196533

Matrix: Solid

CCV Sample Id: CCV, VOC-1

Analyzed Date: 08/22/22 07:52

Parameter	Spike Amount	CCV Result	CCV %Rec	Limits	Units	Flag
Acetone	0.06000	0.06238	104	80-120	mg/kg	
Benzene	0.06000	0.05739	96	80-120	mg/kg	
Bromochloromethane	0.06000	0.05920	99	80-120	mg/kg	
Bromodichloromethane	0.06000	0.06041	101	80-120	mg/kg	
Bromoform	0.06000	0.06062	101	80-120	mg/kg	
Bromomethane	0.06000	0.05343	89	80-120	mg/kg	
2-Butanone (MEK)	0.06000	0.05920	99	80-120	mg/kg	
Carbon Disulfide	0.06000	0.05853	98	80-120	mg/kg	
Carbon tetrachloride	0.06000	0.05967	99	80-120	mg/kg	
Chlorobenzene	0.06000	0.05759	96	80-120	mg/kg	
Chloroethane	0.06000	0.05575	93	80-120	mg/kg	
Chloroform	0.06000	0.05446	91	80-120	mg/kg	
Chloromethane	0.06000	0.05469	91	80-120	mg/kg	
Cyclohexane	0.06000	0.05825	97	80-120	mg/kg	
1,2-Dibromo-3-chloropropane	0.06000	0.06051	101	80-120	mg/kg	
Dibromochloromethane	0.06000	0.06505	108	80-120	mg/kg	
1,2-Dibromoethane	0.06000	0.06242	104	80-120	mg/kg	
1,2-Dichlorobenzene	0.06000	0.05755	96	80-120	mg/kg	
1,3-Dichlorobenzene	0.06000	0.05822	97	80-120	mg/kg	
1,4-Dichlorobenzene	0.06000	0.05876	98	80-120	mg/kg	
Dichlorodifluoromethane	0.06000	0.05282	88	80-120	mg/kg	
1,1-Dichloroethane	0.06000	0.05836	97	80-120	mg/kg	
1,2-Dichloroethane	0.06000	0.05676	95	80-120	mg/kg	
1,1-Dichloroethene	0.06000	0.05729	95	80-120	mg/kg	
1,2-Dichloropropane	0.06000	0.05886	98	80-120	mg/kg	
cis-1,2-Dichloroethene	0.06000	0.05783	96	80-120	mg/kg	
cis-1,3-Dichloropropene	0.06000	0.05679	95	80-120	mg/kg	
trans-1,2-Dichloroethene	0.06000	0.05733	96	80-120	mg/kg	
trans-1,3-Dichloropropene	0.06000	0.05500	92	80-120	mg/kg	
Ethylbenzene	0.06000	0.05897	98	80-120	mg/kg	
2-Hexanone (MBK)	0.06000	0.06160	103	80-120	mg/kg	
Isopropylbenzene	0.06000	0.05889	98	80-120	mg/kg	
Methyl Acetate	0.06000	0.05855	98	80-120	mg/kg	
Methylcyclohexane	0.06000	0.05721	95	80-120	mg/kg	
Methylene chloride	0.06000	0.05663	94	80-120	mg/kg	
4-Methyl-2-Pantanone (MIBK)	0.06000	0.05969	99	80-120	mg/kg	
Methyl-t-Butyl Ether	0.06000	0.07008	117	80-120	mg/kg	
Naphthalene	0.06000	0.06036	101	80-120	mg/kg	
Styrene	0.06000	0.05954	99	80-120	mg/kg	
1,1,2,2-Tetrachloroethane	0.06000	0.06084	101	80-120	mg/kg	
Tetrachloroethene	0.06000	0.05764	96	80-120	mg/kg	
Toluene	0.06000	0.05517	92	80-120	mg/kg	
1,2,3-Trichlorobenzene	0.06000	0.06000	100	80-120	mg/kg	
1,2,4-Trichlorobenzene	0.06000	0.05957	99	80-120	mg/kg	
1,1,1-Trichloroethane	0.06000	0.06158	103	80-120	mg/kg	
1,1,2-Trichloroethane	0.06000	0.05817	97	80-120	mg/kg	
Trichloroethene	0.06000	0.05691	95	80-120	mg/kg	
Trichlorofluoromethane	0.06000	0.05637	94	80-120	mg/kg	
1,1,2-Trichlorotrifluoroethane	0.06000	0.05730	96	80-120	mg/kg	
Vinyl chloride	0.06000	0.05939	99	80-120	mg/kg	
m&p-Xylene	0.1200	0.1174	98	80-120	mg/kg	

PHASE**S**EPARATION**S**CIENCE**QC Summary**

6630 Baltimore National Pike

Baltimore, MD 21228

410-747-8770

800-932-9047

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Project Name Chestertown

PSS Project No.: 22081223

Analytical Method: SW-846 8260 D

Seq Number: 196533

Matrix: Solid

CCV Sample Id: CCV, VOC-1

Analyzed Date: 08/22/22 07:52

Parameter	Spike Amount	CCV Result	CCV %Rec	Limits	Units	Flag
o-Xylene	0.06000	0.05894	98	80-120	mg/kg	
Surrogate		CCV Result		Limits	Units	Flag
4-Bromofluorobenzene		99		80-120	%	
Dibromofluoromethane		101		80-120	%	
Toluene-D8		98		80-120	%	

Project Name Chestertown

PSS Project No.: 22081223

Analytical Method: SW-846 8260 D

Seq Number: 196477

Parent Sample Id: ICV-01

Matrix: Solid

ICV Sample Id: ICV-01

Analyzed Date: 08/18/22 23:26

Parameter	Spike Amount	ICV Result	ICV %Rec	Limits	Units	Flag
Acetone	0.06000	0.06228	104	70-130	mg/kg	
Benzene	0.06000	0.06039	101	70-130	mg/kg	
Bromochloromethane	0.06000	0.06285	105	70-130	mg/kg	
Bromodichloromethane	0.06000	0.06561	109	70-130	mg/kg	
Bromoform	0.06000	0.06171	103	70-130	mg/kg	
Bromomethane	0.06000	0.05507	92	70-130	mg/kg	
2-Butanone (MEK)	0.06000	0.06432	107	70-130	mg/kg	
Carbon Disulfide	0.06000	0.06257	104	70-130	mg/kg	
Carbon tetrachloride	0.06000	0.06243	104	70-130	mg/kg	
Chlorobenzene	0.06000	0.05992	100	70-130	mg/kg	
Chloroethane	0.06000	0.05917	99	70-130	mg/kg	
Chloroform	0.06000	0.05800	97	70-130	mg/kg	
Chloromethane	0.06000	0.05933	99	70-130	mg/kg	
Cyclohexane	0.06000	0.06164	103	70-130	mg/kg	
1,2-Dibromo-3-chloropropane	0.06000	0.06251	104	70-130	mg/kg	
Dibromochloromethane	0.06000	0.06649	111	70-130	mg/kg	
1,2-Dibromoethane	0.06000	0.06383	106	70-130	mg/kg	
1,2-Dichlorobenzene	0.06000	0.05960	99	70-130	mg/kg	
1,3-Dichlorobenzene	0.06000	0.06047	101	70-130	mg/kg	
1,4-Dichlorobenzene	0.06000	0.05967	99	70-130	mg/kg	
Dichlorodifluoromethane	0.06000	0.06029	100	70-130	mg/kg	
1,1-Dichloroethane	0.06000	0.06169	103	70-130	mg/kg	
1,2-Dichloroethane	0.06000	0.06057	101	70-130	mg/kg	
1,1-Dichloroethene	0.06000	0.06049	101	70-130	mg/kg	
1,2-Dichloropropane	0.06000	0.06312	105	70-130	mg/kg	
cis-1,2-Dichloroethene	0.06000	0.06176	103	70-130	mg/kg	
cis-1,3-Dichloropropene	0.06000	0.05890	98	70-130	mg/kg	
trans-1,2-Dichloroethene	0.06000	0.06034	101	70-130	mg/kg	
trans-1,3-Dichloropropene	0.06000	0.05864	98	70-130	mg/kg	
Ethylbenzene	0.06000	0.05962	99	70-130	mg/kg	
2-Hexanone (MBK)	0.06000	0.06481	108	70-130	mg/kg	
Isopropylbenzene	0.06000	0.06184	103	70-130	mg/kg	
Methyl Acetate	0.06000	0.06275	105	70-130	mg/kg	
Methylcyclohexane	0.06000	0.06149	102	70-130	mg/kg	
Methylene chloride	0.06000	0.06057	101	70-130	mg/kg	
4-Methyl-2-Pantanone (MIBK)	0.06000	0.06582	110	70-130	mg/kg	
Methyl-t-Butyl Ether	0.06000	0.06514	109	70-130	mg/kg	
Naphthalene	0.06000	0.06870	115	70-130	mg/kg	
Styrene	0.06000	0.06076	101	70-130	mg/kg	
1,1,2,2-Tetrachloroethane	0.06000	0.06391	107	70-130	mg/kg	
Tetrachloroethene	0.06000	0.05962	99	70-130	mg/kg	
Toluene	0.06000	0.06067	101	70-130	mg/kg	
1,2,3-Trichlorobenzene	0.06000	0.06540	109	70-130	mg/kg	
1,2,4-Trichlorobenzene	0.06000	0.06486	108	70-130	mg/kg	
1,1,1-Trichloroethane	0.06000	0.06392	107	70-130	mg/kg	
1,1,2-Trichloroethane	0.06000	0.06221	104	70-130	mg/kg	
Trichloroethene	0.06000	0.06042	101	70-130	mg/kg	
Trichlorofluoromethane	0.06000	0.05965	99	70-130	mg/kg	
1,1,2-Trichlorotrifluoroethane	0.06000	0.06044	101	70-130	mg/kg	
Vinyl chloride	0.06000	0.06192	103	70-130	mg/kg	
m&p-Xylene	0.1200	0.1206	101	70-130	mg/kg	

PHASE**S**EPARATION**S**CIENCE**QC Summary**

6630 Baltimore National Pike
Baltimore, MD 21228
410-747-8770
800-932-9047
www.phaseonline.com

Project Name Chestertown

PSS Project No.: 22081223

Analytical Method: SW-846 8260 D

Seq Number: 196477

Matrix: Solid

Parent Sample Id: ICV-01

ICV Sample Id: ICV-01

Analyzed Date: 08/18/22 23:26

Parameter	Spike Amount	ICV Result	ICV %Rec	Limits	Units	Flag
o-Xylene	0.06000	0.06013	100	70-130	mg/kg	
Surrogate						
4-Bromofluorobenzene		100		70-130	%	
Dibromofluoromethane		104		70-130	%	
Toluene-D8		102		70-130	%	

X = Recovery outside of QC Criteria

CHAIN OF CUSTODY FORM

All fields must be completed accurately. Shaded sections for lab use only.

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① PSS CLIENT: <i>Apex Los</i>				OFFICE LOCATION:				PSS Work Order #: <i>22081223</i>				PAGE <u>1</u> OF <u>2</u>				
BILL TO (if different):				PHONE #:				Matrix Codes: SW=Surface Water DW=Drinking Water GW=Ground Water WW=Waste Water O=Oil S=Soil SOL=Solid A=Air WI=Wipe								
CONTACT: <i>C Mentzer</i>				EMAIL: <i>[redacted]</i>				Preservatives Use Codes ③				Preservative Codes 1 - HCL 2 - H ₂ SO ₄ 3 - HNO ₃ 4 - NaOH 5 - E624KIT 6 - ICE 7 - Sodium Thiosulfate 8 - Ascorbic Acid 9 - TerraCore Kit				
PROJECT NAME: <i>Chestertown</i>				PROJECT #: <i>[redacted]</i>				Analysis/ Method Required ④								
SITE LOCATION:				P.O. #:				VOC 8/260 + neopent DRO 5/15 2025								
SAMPLER(S): <i>Matt Fazio</i>				DW CERT #:												
② PSS ID	SAMPLE IDENTIFICATION			DATE SAMPLED	TIME SAMPLED	MATRIX Use Codes	# OF CONTAINERS	SAMPLE TYPE: C=COMPOSITE G=GRAB								
1	SB8 39'			08/11	0930	5	8	G	X	X					66°C	
2	SB8 42'				0940		1								66°C	
3	SB7 40'				1110		1								66°C	
4	SB7 12'				1120		1								66°C	
5	SB1 34				1530		7								66°C	
6	SB1 23				1540		1								66°C	
7	SB2 32'				1340		1								66°C	
8	SB2 41'				1350		1								66°C	
9	SB3 31'			08/12	0900		1									
10	SB3 22'				0910		1								66°C	
⑤ Relinquished By: (1)	<i>[Signature]</i>		Date <i>08/12</i>	Time <i>1825</i>	Received By: <i>B. Colson</i>			Requested TAT (One TAT per COC) <input checked="" type="checkbox"/> 5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> Next Day <input type="checkbox"/> Emergency <input type="checkbox"/> Other				Ice Present: <i>YLS</i> Custody Seal: <i>AB5</i>				
Relinquished By: (2)			Date	Time	Received By:			STATE RESULTS REPORTED TO: <input type="checkbox"/> MD <input type="checkbox"/> DE <input type="checkbox"/> PA <input type="checkbox"/> VA <input type="checkbox"/> WV <input type="checkbox"/> OTHER				# Coolers: <i>3</i> Temp: <i>3.1 9.1</i>				
Relinquished By: (3)			Date	Time	Received By:			COMPLIANCE? <input type="checkbox"/> DW <input type="checkbox"/> WW				Special Instructions:				
Relinquished By: (4)			Date	Time	Received By:			EDD FORMAT TYPE								

This chain of custody is a legal document. The client (PSS Client), by signing, or having client's agent sign, this "Chain of Custody Form", agrees to pay for the above requested services per the latest version of the Service Brochure of PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary.

CHAIN OF CUSTODY FORM

All fields must be completed accurately. Shaded sections for lab use only.

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PSS CLIENT:		OFFICE LOCATION:			PSS Work Order #:							PAGE <u>2</u> OF <u>2</u>													
BILL TO (if different):		PHONE #:			Matrix Codes: SW=Surface Water DW=Drinking Water GW=Ground Water WW=Waste Water O=Oil S=Soil SOL=Solid A=Air WI=Wipe																				
CONTACT:		EMAIL:			Preservatives Use Codes Analysis/ Method Required ③	# OF CONTAINERS SAMPLE TYPE: C=COMPOSITE G=GRAB	Preservative Codes 1 - HCL 2 - H ₂ SO ₄ 3 - HNO ₃ 4 - NaOH 5 - E624KIT 6 - ICE 7 - Sodium Thiosulfate 8 - Ascorbic Acid 9 - TerraCore Kit																		
PROJECT NAME:		PROJECT #:															6	6	6						
SITE LOCATION:		P.O. #:																							
SAMPLER(S):		DW CERT #:																							
PSS ID		SAMPLE IDENTIFICATION		DATE SAMPLED													TIME SAMPLED	MATRIX Use Codes	Vd 8260 + n/a DHO 8915	DHO 8915					
11	SB4 28	08/12	1030	S	7	G	X	X																	
12	SB4 34		1040		1																				
13	SB5 25		1330		1																				
14	SB5 37		1320		1																				
15	SB6 39		1540		1																				
16	SB6 44		1550		1																				
Relinquished By: (1)		Date	Time	Received By:			Requested TAT (One TAT per COC)				Ice Present:														
		08/12	1824	<u>B. Colson</u>			<input type="checkbox"/> 5-Day	<input type="checkbox"/> 3-Day	<input type="checkbox"/> 2-Day	<u>YLS</u>															
Relinquished By: (2)		Date	Time	Received By:			<input type="checkbox"/> Next Day	<input type="checkbox"/> Emergency	<input type="checkbox"/> Other	<u>RBS</u>															
Relinquished By: (3)		Date	Time	Received By:			STATE RESULTS REPORTED TO:				# Coolers:	Temp:													
Relinquished By: (4)		Date	Time	Received By:			<input type="checkbox"/> MD	<input type="checkbox"/> DE	<input type="checkbox"/> PA	<input type="checkbox"/> VA	<input type="checkbox"/> WV	3	3.1 9.1												
							<input type="checkbox"/> OTHER					Shipping Carrier: <u>client</u> 9-10													
							COMPLIANCE?				Special Instructions:														
							<input type="checkbox"/> DW	<input type="checkbox"/> WW																	
							EDD FORMAT TYPE																		

This chain of custody is a legal document. The client (PSS Client), by signing, or having client's agent sign, this "Chain of Custody Form", agrees to pay for the above requested services per the latest version of the Service Brochure of PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary.

Sample Receipt Checklist

6630 Baltimore National Pike

Baltimore, MD 21228

410-747-8770

800-932-9047

www.phaseonline.com

Project Name: Chestertown

PSS Project No.: 22081223

Client Name Apex Companies, LLC**Received By** Betsy Colson**Disposal Date** 09/16/2022**Date Received** 08/12/2022 06:25:00 PM**Delivered By** Client**Tracking No** Not Applicable**Logged In By** Jillian Chapman**Shipping Container(s)**

No. of Coolers 3

Ice Present

Custody Seal(s) Intact?

N/A Temp (deg C) 9.6

Seal(s) Signed / Dated?

N/A Temp Blank Present No

Documentation

COC agrees with sample labels?

No Sampler Name Matt Fraioli

Chain of Custody

Yes MD DW Cert. No. N/A**Sample Container**

Appropriate for Specified Analysis?

Yes Custody Seal(s) Intact? Not Applicable

Intact?

Yes Seal(s) Signed / Dated Not Applicable

Labeled and Labels Legible?

Yes

Holding Time

All Samples Received Within Holding Time(s)? Yes

Total No. of Samples Received 16

Total No. of Containers Received 116

Preservation

Total Metals

(pH<2) N/A

Dissolved Metals, filtered within 15 minutes of collection

(pH<2) N/A

Orthophosphorus, filtered within 15 minutes of collection

N/A

Cyanides

(pH>12) N/A

Sulfide

(pH>9) N/A

TOC, DOC (field filtered), COD, Phenols

(pH<2) N/A

TOX, TKN, NH3, Total Phos

(pH<2) N/A

VOC, BTEX (VOA Vials Rcvd Preserved)

(pH<2) N/A

Do VOA vials have zero headspace?

N/A

624 VOC (Rcvd at least one unpreserved VOA vial)

N/A

524 VOC (Rcvd with trip blanks)

(pH<2) N/A

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Project Name: Chestertown

PSS Project No.: 22081223

Sample Receipt Checklist

6630 Baltimore National Pike

Baltimore, MD 21228

410-747-8770

800-932-9047

www.phaseonline.com

Client Name Apex Companies, LLC

Received By Betsy Colson

Disposal Date 09/16/2022

Date Received 08/12/2022 06:25:00 PM

Delivered By Client

Tracking No Not Applicable

Logged In By Jillian Chapman

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

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

Terra core vials for sample 013 labeled as "SB5 30"; 4oz jar for sample 013 labeled as "SB5 5 25".

Logged in according to COC.

Received 2oz plastic container for sample 002 empty; 4oz jar used for solids content.

Samples Inspected/Checklist Completed By:

Jillian Chapman

Date: 08/15/2022

PM Review and Approval:

Amber Confer

Date: 08/15/2022

ATTACHMENT 7

Laboratory Certificates of Analysis & Chain of Custody Record
for Groundwater Samples

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Certificate of Analysis

6630 Baltimore National Pike

Baltimore, MD 21228

410-747-8770

800-932-9047

www.phaseonline.com

Project Name: Chestertown LSI
PSS Project No.: 22081811

August 25, 2022

Calvin Mentzer
Apex Companies, LLC
15850 Crabbs Branch Way, Ste 200
Rockville, MD 20855

Reference: PSS Project No: **22081811**
Project Name: Chestertown LSI
Project Location: Chestertown, MD
Project ID.: TOW029-0309016-22008272



Dear Calvin Mentzer:

This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Project number(s) **22081811**.

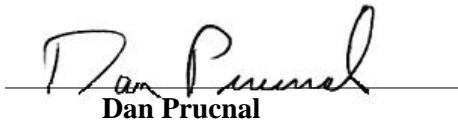
All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis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

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on September 22, 2022, with the exception of air canisters which are cleaned immediately following analysis. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

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

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

Sincerely,


Dan Prucnal

Laboratory Manager



Explanation of Qualifiers

6630 Baltimore National Pike
 Baltimore, MD 21228
 410-747-8770
 800-932-9047
www.phaseonline.com

Project Name: Chestertown LSI

PSS Project No.: 22081811

Project ID: TOW029-0309016-22008

The following samples were received under chain of custody by Phase Separation Science (PSS) on 08/18/2022 at 11:20 am

PSS Sample ID	Sample ID	Matrix	Date/Time Collected
22081811-001	TW-1	GROUND WATER	08/16/22 08:50
22081811-002	TW-2	GROUND WATER	08/16/22 09:30
22081811-003	TW-3	GROUND WATER	08/16/22 09:50
22081811-004	TW-7	GROUND WATER	08/16/22 10:20
22081811-005	TW-4	GROUND WATER	08/17/22 09:00
22081811-006	TW-5	GROUND WATER	08/17/22 10:00
22081811-007	TW-6	GROUND WATER	08/17/22 10:30
22081811-008	TW-8	GROUND WATER	08/17/22 09:30

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

Notes:

1. The presence of a common laboratory contaminant such as methylene chloride may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. Unless otherwise noted in the case narrative, results are reported on a dry weight basis with the exception of pH, flashpoint, moisture, and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminates, and part 141.3, for the secondary drinking water contaminates.
5. Sample prepared under EPA 3550C with concentrations greater than 20 mg/Kg should employ the microtip extraction procedure if required to meet data quality objectives.
6. The analysis of acrolein by EPA 624 must be analyzed within three days of sampling unless pH is adjusted to 4-5 units [40 CFR part 136.3(e)].
7. Method 180.1, The Determination of Turbidity by Nephelometry, recommends samples over 40 NTU be diluted until the turbidity falls below 40 units. Routine samples over 40 NTU may not be diluted as long as the data quality objectives are not affected.
8. Alkalinity results analyzed by EPA 310.2 that are reported by dilution are estimated and are not in compliance with method requirements.

Standard Flags/Abbreviations:

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
- J The target analyte was positively identified below the reporting limit but greater than the MDL.
- MDL This is the Laboratory Method Detection Limit which is equivalent to the Limit of Detection (LOD). The LOD is the minimum result, which can be reliably discriminated from a blank with a predetermined confidence level. This value will remain constant across multiple similar instrumentation and among different analysts. An LOD is analyte and matrix specific.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.

Certifications:

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

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Explanation of Qualifiers

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Project Name: Chestertown LSI

PSS Project No.: 22081811

Certificate of Analysis

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Project Name: Chestertown LSI
 PSS Project No.: 22081811

Sample ID: TW-1	Date/Time Sampled: 08/16/2022 08:50	PSS Sample ID: 22081811-001
Matrix: GROUND WATER	Date/Time Received: 08/18/2022 11:20	

Total Petroleum Hydrocarbons - DRO	Analytical Method: SW-846 8015C DRO	Preparation Method: SW3510C
------------------------------------	-------------------------------------	-----------------------------

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/L	0.10		1	08/22/22	08/22/22 11:56	1069
Surrogate(s)	Recovery		Limits					
o-Terphenyl	84	%	52-100		1	08/22/22	08/22/22 11:56	1069

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C GRO	Preparation Method: SW5030B
----------------------------------	-------------------------------------	-----------------------------

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	08/22/22	08/22/22 13:21	1045
Surrogate(s)	Recovery		Limits					
a,a,a-Trifluorotoluene	88	%	79-114		1	08/22/22	08/22/22 13:21	1045

TCL Volatile Organic Compounds	Analytical Method: SW-846 8260 D	Preparation Method: SW5030B
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Qualifier(s): See Batch 196552 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	5.0		1	08/22/22	08/23/22 00:49	1011
Benzene	ND	ug/L	1.0		1	08/22/22	08/23/22 00:49	1011
Bromochloromethane	ND	ug/L	1.0		1	08/22/22	08/23/22 00:49	1011
Bromodichloromethane	ND	ug/L	1.0		1	08/22/22	08/23/22 00:49	1011
Bromoform	ND	ug/L	1.0		1	08/22/22	08/23/22 00:49	1011
Bromomethane	ND	ug/L	1.0		1	08/22/22	08/23/22 00:49	1011
2-Butanone (MEK)	ND	ug/L	5.0		1	08/22/22	08/23/22 00:49	1011
Carbon Disulfide	ND	ug/L	1.0		1	08/22/22	08/23/22 00:49	1011
Carbon tetrachloride	ND	ug/L	1.0		1	08/22/22	08/23/22 00:49	1011
Chlorobenzene	ND	ug/L	1.0		1	08/22/22	08/23/22 00:49	1011
Chloroethane	ND	ug/L	1.0		1	08/22/22	08/23/22 00:49	1011
Chloroform	ND	ug/L	1.0		1	08/22/22	08/23/22 00:49	1011
Chloromethane	ND	ug/L	1.0		1	08/22/22	08/23/22 00:49	1011
Cyclohexane	ND	ug/L	1.0		1	08/22/22	08/23/22 00:49	1011
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0		1	08/22/22	08/23/22 00:49	1011
Dibromochloromethane	ND	ug/L	1.0		1	08/22/22	08/23/22 00:49	1011
1,2-Dibromoethane	ND	ug/L	1.0		1	08/22/22	08/23/22 00:49	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	08/22/22	08/23/22 00:49	1011

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Project Name: Chestertown LSI
 PSS Project No.: 22081811

Sample ID: TW-1	Date/Time Sampled: 08/16/2022 08:50	PSS Sample ID: 22081811-001
Matrix: GROUND WATER	Date/Time Received: 08/18/2022 11:20	

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5030B

Qualifier(s): See Batch 196552 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,3-Dichlorobenzene	ND	ug/L	1.0	1		08/22/22	08/23/22 00:49	1011
Dichlorodifluoromethane	ND	ug/L	1.0	1		08/22/22	08/23/22 00:49	1011
1,4-Dichlorobenzene	ND	ug/L	1.0	1		08/22/22	08/23/22 00:49	1011
1,1-Dichloroethane	ND	ug/L	1.0	1		08/22/22	08/23/22 00:49	1011
1,2-Dichloroethane	ND	ug/L	1.0	1		08/22/22	08/23/22 00:49	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		08/22/22	08/23/22 00:49	1011
1,1-Dichloroethene	ND	ug/L	1.0	1		08/22/22	08/23/22 00:49	1011
1,2-Dichloropropane	ND	ug/L	1.0	1		08/22/22	08/23/22 00:49	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		08/22/22	08/23/22 00:49	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		08/22/22	08/23/22 00:49	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		08/22/22	08/23/22 00:49	1011
Ethylbenzene	ND	ug/L	1.0	1		08/22/22	08/23/22 00:49	1011
2-Hexanone (MBK)	ND	ug/L	5.0	1		08/22/22	08/23/22 00:49	1011
Isopropylbenzene	ND	ug/L	1.0	1		08/22/22	08/23/22 00:49	1011
Methyl Acetate	ND	ug/L	1.0	1		08/22/22	08/23/22 00:49	1011
Methylcyclohexane	ND	ug/L	1.0	1		08/22/22	08/23/22 00:49	1011
Methylene chloride	ND	ug/L	1.0	1		08/22/22	08/23/22 00:49	1011
4-Methyl-2-Pantanone (MIBK)	ND	ug/L	5.0	1		08/22/22	08/23/22 00:49	1011
Methyl-t-Butyl Ether	ND	ug/L	1.0	1		08/22/22	08/23/22 00:49	1011
Naphthalene	ND	ug/L	1.0	1		08/22/22	08/23/22 00:49	1011
Styrene	ND	ug/L	1.0	1		08/22/22	08/23/22 00:49	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		08/22/22	08/23/22 00:49	1011
Tetrachloroethene	ND	ug/L	1.0	1		08/22/22	08/23/22 00:49	1011
Toluene	ND	ug/L	1.0	1		08/22/22	08/23/22 00:49	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		08/22/22	08/23/22 00:49	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		08/22/22	08/23/22 00:49	1011
1,1,1-Trichloroethane	ND	ug/L	1.0	1		08/22/22	08/23/22 00:49	1011
Trichloroethene	ND	ug/L	1.0	1		08/22/22	08/23/22 00:49	1011
1,1,2-Trichloroethane	ND	ug/L	1.0	1		08/22/22	08/23/22 00:49	1011
Trichlorofluoromethane	ND	ug/L	1.0	1		08/22/22	08/23/22 00:49	1011
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		08/22/22	08/23/22 00:49	1011
Vinyl chloride	ND	ug/L	1.0	1		08/22/22	08/23/22 00:49	1011
m&p-Xylene	ND	ug/L	2.0	1		08/22/22	08/23/22 00:49	1011
o-Xylene	ND	ug/L	1.0	1		08/22/22	08/23/22 00:49	1011

Certificate of Analysis

6630 Baltimore National Pike
Baltimore, MD 21228
410-747-8770
800-932-9047
www.phaseonline.com

Project Name: Chestertown LSI
PSS Project No.: 22081811

Sample ID: TW-1 **Date/Time Sampled:** 08/16/2022 08:50 **PSS Sample ID:** 22081811-001

Matrix: GROUND WATER **Date/Time Received:** 08/18/2022 11:20

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5030B

Qualifier(s): See Batch 196552 on Case Narrative.

Surrogate(s)	Recovery	Limits					
4-Bromofluorobenzene	103 %	88-120	1	08/22/22	08/23/22 00:49	1011	
Dibromofluoromethane	97 %	92-107	1	08/22/22	08/23/22 00:49	1011	
Toluene-D8	99 %	95-106	1	08/22/22	08/23/22 00:49	1011	

Certificate of Analysis

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Project Name: Chestertown LSI
 PSS Project No.: 22081811

Sample ID: TW-2	Date/Time Sampled: 08/16/2022 09:30			PSS Sample ID: 22081811-002		
Matrix: GROUND WATER	Date/Time Received: 08/18/2022 11:20					

Total Petroleum Hydrocarbons - DRO Analytical Method: SW-846 8015C DRO Preparation Method: SW3510C

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/L	0.10		1	08/22/22	08/22/22 12:21	1069
Surrogate(s)	Recovery		Limits					
o-Terphenyl	81	%	52-100		1	08/22/22	08/22/22 12:21	1069

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C GRO Preparation Method: SW5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	08/22/22	08/22/22 13:44	1045
Surrogate(s)	Recovery		Limits					
a,a,a-Trifluorotoluene	86	%	79-114		1	08/22/22	08/22/22 13:44	1045

TCL Volatile Organic Compounds Analytical Method: SW-846 8260 D Preparation Method: SW5030B

Qualifier(s): See Batch 196552 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	5.0		1	08/22/22	08/23/22 01:11	1011
Benzene	ND	ug/L	1.0		1	08/22/22	08/23/22 01:11	1011
Bromochloromethane	ND	ug/L	1.0		1	08/22/22	08/23/22 01:11	1011
Bromodichloromethane	ND	ug/L	1.0		1	08/22/22	08/23/22 01:11	1011
Bromoform	ND	ug/L	1.0		1	08/22/22	08/23/22 01:11	1011
Bromomethane	ND	ug/L	1.0		1	08/22/22	08/23/22 01:11	1011
2-Butanone (MEK)	ND	ug/L	5.0		1	08/22/22	08/23/22 01:11	1011
Carbon Disulfide	ND	ug/L	1.0		1	08/22/22	08/23/22 01:11	1011
Carbon tetrachloride	ND	ug/L	1.0		1	08/22/22	08/23/22 01:11	1011
Chlorobenzene	ND	ug/L	1.0		1	08/22/22	08/23/22 01:11	1011
Chloroethane	ND	ug/L	1.0		1	08/22/22	08/23/22 01:11	1011
Chloroform	ND	ug/L	1.0		1	08/22/22	08/23/22 01:11	1011
Chloromethane	ND	ug/L	1.0		1	08/22/22	08/23/22 01:11	1011
Cyclohexane	ND	ug/L	1.0		1	08/22/22	08/23/22 01:11	1011
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0		1	08/22/22	08/23/22 01:11	1011
Dibromochloromethane	ND	ug/L	1.0		1	08/22/22	08/23/22 01:11	1011
1,2-Dibromoethane	ND	ug/L	1.0		1	08/22/22	08/23/22 01:11	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	08/22/22	08/23/22 01:11	1011

Certificate of Analysis

Project Name: Chestertown LSI
 PSS Project No.: 22081811

Sample ID: TW-2	Date/Time Sampled: 08/16/2022 09:30	PSS Sample ID: 22081811-002
Matrix: GROUND WATER	Date/Time Received: 08/18/2022 11:20	

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5030B

Qualifier(s): See Batch 196552 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,3-Dichlorobenzene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:11	1011
Dichlorodifluoromethane	ND	ug/L	1.0	1		08/22/22	08/23/22 01:11	1011
1,4-Dichlorobenzene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:11	1011
1,1-Dichloroethane	ND	ug/L	1.0	1		08/22/22	08/23/22 01:11	1011
1,2-Dichloroethane	ND	ug/L	1.0	1		08/22/22	08/23/22 01:11	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:11	1011
1,1-Dichloroethene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:11	1011
1,2-Dichloropropane	ND	ug/L	1.0	1		08/22/22	08/23/22 01:11	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:11	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:11	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:11	1011
Ethylbenzene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:11	1011
2-Hexanone (MBK)	ND	ug/L	5.0	1		08/22/22	08/23/22 01:11	1011
Isopropylbenzene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:11	1011
Methyl Acetate	ND	ug/L	1.0	1		08/22/22	08/23/22 01:11	1011
Methylcyclohexane	ND	ug/L	1.0	1		08/22/22	08/23/22 01:11	1011
Methylene chloride	ND	ug/L	1.0	1		08/22/22	08/23/22 01:11	1011
4-Methyl-2-Pantanone (MIBK)	ND	ug/L	5.0	1		08/22/22	08/23/22 01:11	1011
Methyl-t-Butyl Ether	ND	ug/L	1.0	1		08/22/22	08/23/22 01:11	1011
Naphthalene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:11	1011
Styrene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:11	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		08/22/22	08/23/22 01:11	1011
Tetrachloroethene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:11	1011
Toluene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:11	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:11	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:11	1011
1,1,1-Trichloroethane	ND	ug/L	1.0	1		08/22/22	08/23/22 01:11	1011
Trichloroethene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:11	1011
1,1,2-Trichloroethane	ND	ug/L	1.0	1		08/22/22	08/23/22 01:11	1011
Trichlorofluoromethane	ND	ug/L	1.0	1		08/22/22	08/23/22 01:11	1011
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		08/22/22	08/23/22 01:11	1011
Vinyl chloride	ND	ug/L	1.0	1		08/22/22	08/23/22 01:11	1011
m&p-Xylene	ND	ug/L	2.0	1		08/22/22	08/23/22 01:11	1011
o-Xylene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:11	1011

Certificate of Analysis

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Project Name: Chestertown LSI
PSS Project No.: 22081811

Sample ID: TW-2 **Date/Time Sampled: 08/16/2022 09:30** **PSS Sample ID: 22081811-002**

Matrix: GROUND WATER

Date/Time Received: 08/18/2022 11:20

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5030B

Qualifier(s): See Batch 196552 on Case Narrative.

Surrogate(s)	Recovery		Limits				
4-Bromofluorobenzene	102	%	88-120	1	08/22/22	08/23/22 01:11	1011
Dibromofluoromethane	98	%	92-107	1	08/22/22	08/23/22 01:11	1011
Toluene-D8	99	%	95-106	1	08/22/22	08/23/22 01:11	1011

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Project Name: Chestertown LSI
 PSS Project No.: 22081811

Sample ID: TW-3	Date/Time Sampled: 08/16/2022 09:50			PSS Sample ID: 22081811-003		
Matrix: GROUND WATER	Date/Time Received: 08/18/2022 11:20					

Total Petroleum Hydrocarbons - DRO Analytical Method: SW-846 8015C DRO Preparation Method: SW3510C

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/L	0.10		1	08/22/22	08/22/22 12:46	1069
Surrogate(s)	Recovery		Limits					
<i>o-Terphenyl</i>	92	%	52-100		1	08/22/22	08/22/22 12:46	1069

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C GRO Preparation Method: SW5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	08/22/22	08/22/22 14:07	1045
Surrogate(s)	Recovery		Limits					
<i>a,a,a-Trifluorotoluene</i>	86	%	79-114		1	08/22/22	08/22/22 14:07	1045

TCL Volatile Organic Compounds Analytical Method: SW-846 8260 D Preparation Method: SW5030B

Qualifier(s): See Batch 196552 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	5.0		1	08/22/22	08/23/22 01:34	1011
Benzene	ND	ug/L	1.0		1	08/22/22	08/23/22 01:34	1011
Bromochloromethane	ND	ug/L	1.0		1	08/22/22	08/23/22 01:34	1011
Bromodichloromethane	ND	ug/L	1.0		1	08/22/22	08/23/22 01:34	1011
Bromoform	ND	ug/L	1.0		1	08/22/22	08/23/22 01:34	1011
Bromomethane	ND	ug/L	1.0		1	08/22/22	08/23/22 01:34	1011
2-Butanone (MEK)	ND	ug/L	5.0		1	08/22/22	08/23/22 01:34	1011
Carbon Disulfide	ND	ug/L	1.0		1	08/22/22	08/23/22 01:34	1011
Carbon tetrachloride	ND	ug/L	1.0		1	08/22/22	08/23/22 01:34	1011
Chlorobenzene	ND	ug/L	1.0		1	08/22/22	08/23/22 01:34	1011
Chloroethane	ND	ug/L	1.0		1	08/22/22	08/23/22 01:34	1011
Chloroform	ND	ug/L	1.0		1	08/22/22	08/23/22 01:34	1011
Chloromethane	ND	ug/L	1.0		1	08/22/22	08/23/22 01:34	1011
Cyclohexane	ND	ug/L	1.0		1	08/22/22	08/23/22 01:34	1011
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0		1	08/22/22	08/23/22 01:34	1011
Dibromochloromethane	ND	ug/L	1.0		1	08/22/22	08/23/22 01:34	1011
1,2-Dibromoethane	ND	ug/L	1.0		1	08/22/22	08/23/22 01:34	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	08/22/22	08/23/22 01:34	1011

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Project Name: Chestertown LSI
 PSS Project No.: 22081811

Sample ID: TW-3	Date/Time Sampled: 08/16/2022 09:50 PSS Sample ID: 22081811-003							
Matrix: GROUND WATER	Date/Time Received: 08/18/2022 11:20							
TCL Volatile Organic Compounds	Analytical Method: SW-846 8260 D				Preparation Method: SW5030B			
Qualifier(s): See Batch 196552 on Case Narrative.								
	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,3-Dichlorobenzene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:34	1011
Dichlorodifluoromethane	ND	ug/L	1.0	1		08/22/22	08/23/22 01:34	1011
1,4-Dichlorobenzene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:34	1011
1,1-Dichloroethane	ND	ug/L	1.0	1		08/22/22	08/23/22 01:34	1011
1,2-Dichloroethane	ND	ug/L	1.0	1		08/22/22	08/23/22 01:34	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:34	1011
1,1-Dichloroethene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:34	1011
1,2-Dichloropropane	ND	ug/L	1.0	1		08/22/22	08/23/22 01:34	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:34	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:34	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:34	1011
Ethylbenzene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:34	1011
2-Hexanone (MBK)	ND	ug/L	5.0	1		08/22/22	08/23/22 01:34	1011
Isopropylbenzene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:34	1011
Methyl Acetate	ND	ug/L	1.0	1		08/22/22	08/23/22 01:34	1011
Methylcyclohexane	ND	ug/L	1.0	1		08/22/22	08/23/22 01:34	1011
Methylene chloride	ND	ug/L	1.0	1		08/22/22	08/23/22 01:34	1011
4-Methyl-2-Pantanone (MIBK)	ND	ug/L	5.0	1		08/22/22	08/23/22 01:34	1011
Methyl-t-Butyl Ether	ND	ug/L	1.0	1		08/22/22	08/23/22 01:34	1011
Naphthalene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:34	1011
Styrene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:34	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		08/22/22	08/23/22 01:34	1011
Tetrachloroethene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:34	1011
Toluene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:34	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:34	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:34	1011
1,1,1-Trichloroethane	ND	ug/L	1.0	1		08/22/22	08/23/22 01:34	1011
Trichloroethene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:34	1011
1,1,2-Trichloroethane	ND	ug/L	1.0	1		08/22/22	08/23/22 01:34	1011
Trichlorofluoromethane	ND	ug/L	1.0	1		08/22/22	08/23/22 01:34	1011
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		08/22/22	08/23/22 01:34	1011
Vinyl chloride	ND	ug/L	1.0	1		08/22/22	08/23/22 01:34	1011
m&p-Xylene	ND	ug/L	2.0	1		08/22/22	08/23/22 01:34	1011
o-Xylene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:34	1011

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Project Name: Chestertown LSI
PSS Project No.: 22081811

Sample ID: TW-3 **Date/Time Sampled:** 08/16/2022 09:50 **PSS Sample ID:** 22081811-003

Matrix: GROUND WATER **Date/Time Received:** 08/18/2022 11:20

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5030B

Qualifier(s): See Batch 196552 on Case Narrative.

Surrogate(s)	Recovery	Limits					
4-Bromofluorobenzene	101 %	88-120	1	08/22/22	08/23/22 01:34	1011	
Dibromofluoromethane	98 %	92-107	1	08/22/22	08/23/22 01:34	1011	
Toluene-D8	99 %	95-106	1	08/22/22	08/23/22 01:34	1011	

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Project Name: Chestertown LSI
 PSS Project No.: 22081811

Sample ID: TW-7 **Date/Time Sampled: 08/16/2022 10:20** **PSS Sample ID: 22081811-004**

Matrix: GROUND WATER

Date/Time Received: 08/18/2022 11:20

Total Petroleum Hydrocarbons - DRO

Analytical Method: SW-846 8015C DRO

Preparation Method: SW3510C

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/L	0.10	1		08/22/22	08/22/22 12:46	1069
Surrogate(s)	Recovery		Limits					
<i>o-Terphenyl</i>	80	%	52-100	1		08/22/22	08/22/22 12:46	1069

Total Petroleum Hydrocarbons-GRO

Analytical Method: SW-846 8015C GRO

Preparation Method: SW5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100	1		08/22/22	08/22/22 14:30	1045
Surrogate(s)	Recovery		Limits					
<i>a,a,a-Trifluorotoluene</i>	86	%	79-114	1		08/22/22	08/22/22 14:30	1045

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5030B

Qualifier(s): See Batch 196552 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	5.1	ug/L	5.0	1		08/22/22	08/23/22 01:57	1011
Benzene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011
Bromochloromethane	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011
Bromodichloromethane	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011
Bromoform	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011
Bromomethane	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011
2-Butanone (MEK)	ND	ug/L	5.0	1		08/22/22	08/23/22 01:57	1011
Carbon Disulfide	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011
Carbon tetrachloride	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011
Chlorobenzene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011
Chloroethane	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011
Chloroform	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011
Chloromethane	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011
Cyclohexane	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011
Dibromochloromethane	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011
1,2-Dibromoethane	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011
1,2-Dichlorobenzene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011

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Project Name: Chestertown LSI
 PSS Project No.: 22081811

Sample ID: TW-7	Date/Time Sampled: 08/16/2022 10:20	PSS Sample ID: 22081811-004
Matrix: GROUND WATER	Date/Time Received: 08/18/2022 11:20	

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5030B

Qualifier(s): See Batch 196552 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,3-Dichlorobenzene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011
Dichlorodifluoromethane	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011
1,4-Dichlorobenzene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011
1,1-Dichloroethane	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011
1,2-Dichloroethane	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011
1,1-Dichloroethene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011
1,2-Dichloropropane	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011
Ethylbenzene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011
2-Hexanone (MBK)	ND	ug/L	5.0	1		08/22/22	08/23/22 01:57	1011
Isopropylbenzene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011
Methyl Acetate	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011
Methylcyclohexane	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011
Methylene chloride	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011
4-Methyl-2-Pantanone (MIBK)	ND	ug/L	5.0	1		08/22/22	08/23/22 01:57	1011
Methyl-t-Butyl Ether	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011
Naphthalene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011
Styrene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011
Tetrachloroethene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011
Toluene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011
1,1,1-Trichloroethane	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011
Trichloroethene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011
1,1,2-Trichloroethane	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011
Trichlorofluoromethane	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011
Vinyl chloride	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011
m&p-Xylene	ND	ug/L	2.0	1		08/22/22	08/23/22 01:57	1011
o-Xylene	ND	ug/L	1.0	1		08/22/22	08/23/22 01:57	1011

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Project Name: Chestertown LSI
PSS Project No.: 22081811

Sample ID: TW-7 **Date/Time Sampled: 08/16/2022 10:20** **PSS Sample ID: 22081811-004**

Matrix: GROUND WATER

Date/Time Received: 08/18/2022 11:20

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5030B

Qualifier(s): See Batch 196552 on Case Narrative.

Surrogate(s)	Recovery		Limits				
4-Bromofluorobenzene	101	%	88-120	1	08/22/22	08/23/22 01:57	1011
Dibromofluoromethane	98	%	92-107	1	08/22/22	08/23/22 01:57	1011
Toluene-D8	100	%	95-106	1	08/22/22	08/23/22 01:57	1011

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Project Name: Chestertown LSI
 PSS Project No.: 22081811

Sample ID: TW-4	Date/Time Sampled: 08/17/2022 09:00	PSS Sample ID: 22081811-005
Matrix: GROUND WATER	Date/Time Received: 08/18/2022 11:20	

Total Petroleum Hydrocarbons - DRO	Analytical Method: SW-846 8015C DRO	Preparation Method: SW3510C
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/L	0.10	1		08/22/22	08/22/22 13:11	1069
Surrogate(s)	Recovery		Limits					
o-Terphenyl	90	%	52-100	1		08/22/22	08/22/22 13:11	1069

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C GRO	Preparation Method: SW5030B
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100	1		08/22/22	08/22/22 14:53	1045
Surrogate(s)	Recovery		Limits					
a,a,a-Trifluorotoluene	86	%	79-114	1		08/22/22	08/22/22 14:53	1045

TCL Volatile Organic Compounds	Analytical Method: SW-846 8260 D	Preparation Method: SW5030B
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Qualifier(s): See Batch 196592 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	5.0	1		08/23/22	08/23/22 11:40	1011
Benzene	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011
Bromochloromethane	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011
Bromodichloromethane	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011
Bromoform	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011
Bromomethane	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011
2-Butanone (MEK)	ND	ug/L	5.0	1		08/23/22	08/23/22 11:40	1011
Carbon Disulfide	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011
Carbon tetrachloride	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011
Chlorobenzene	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011
Chloroethane	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011
Chloroform	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011
Chloromethane	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011
Cyclohexane	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011
Dibromochloromethane	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011
1,2-Dibromoethane	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011
1,2-Dichlorobenzene	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011

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Project Name: Chestertown LSI
 PSS Project No.: 22081811

Sample ID: TW-4	Date/Time Sampled: 08/17/2022 09:00	PSS Sample ID: 22081811-005
Matrix: GROUND WATER	Date/Time Received: 08/18/2022 11:20	

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5030B

Qualifier(s): See Batch 196592 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,3-Dichlorobenzene	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011
Dichlorodifluoromethane	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011
1,4-Dichlorobenzene	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011
1,1-Dichloroethane	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011
1,2-Dichloroethane	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011
1,1-Dichloroethene	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011
1,2-Dichloropropane	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011
Ethylbenzene	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011
2-Hexanone (MBK)	ND	ug/L	5.0	1		08/23/22	08/23/22 11:40	1011
Isopropylbenzene	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011
Methyl Acetate	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011
Methylcyclohexane	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011
Methylene chloride	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011
4-Methyl-2-Pantanone (MIBK)	ND	ug/L	5.0	1		08/23/22	08/23/22 11:40	1011
Methyl-t-Butyl Ether	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011
Naphthalene	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011
Styrene	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011
Tetrachloroethene	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011
Toluene	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011
1,1,1-Trichloroethane	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011
Trichloroethene	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011
1,1,2-Trichloroethane	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011
Trichlorofluoromethane	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011
Vinyl chloride	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011
m&p-Xylene	ND	ug/L	2.0	1		08/23/22	08/23/22 11:40	1011
o-Xylene	ND	ug/L	1.0	1		08/23/22	08/23/22 11:40	1011

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Project Name: Chestertown LSI
PSS Project No.: 22081811

Sample ID: TW-4 **Date/Time Sampled:** 08/17/2022 09:00 **PSS Sample ID:** 22081811-005

Matrix: GROUND WATER **Date/Time Received:** 08/18/2022 11:20

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5030B

Qualifier(s): See Batch 196592 on Case Narrative.

Surrogate(s)	Recovery	Limits					
4-Bromofluorobenzene	100 %	88-120	1	08/23/22	08/23/22 11:40	1011	
Dibromofluoromethane	100 %	92-107	1	08/23/22	08/23/22 11:40	1011	
Toluene-D8	100 %	95-106	1	08/23/22	08/23/22 11:40	1011	

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Project Name: Chestertown LSI
 PSS Project No.: 22081811

Sample ID: TW-5 **Date/Time Sampled: 08/17/2022 10:00** **PSS Sample ID: 22081811-006**

Matrix: GROUND WATER

Date/Time Received: 08/18/2022 11:20

Total Petroleum Hydrocarbons - DRO

Analytical Method: SW-846 8015C DRO

Preparation Method: SW3510C

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	1.5	mg/L	0.10		1	08/22/22	08/22/22 13:11	1069
Surrogate(s)	Recovery			Limits				
o-Terphenyl	80	%	52-100		1	08/22/22	08/22/22 13:11	1069

Total Petroleum Hydrocarbons-GRO

Analytical Method: SW-846 8015C GRO

Preparation Method: SW5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	08/22/22	08/22/22 15:16	1045
Surrogate(s)	Recovery			Limits				
a,a,a-Trifluorotoluene	84	%	79-114		1	08/22/22	08/22/22 15:16	1045

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5030B

Qualifier(s): See Batch 196592 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	5.0		1	08/23/22	08/23/22 13:13	1011
Benzene	ND	ug/L	1.0		1	08/23/22	08/23/22 13:13	1011
Bromochloromethane	ND	ug/L	1.0		1	08/23/22	08/23/22 13:13	1011
Bromodichloromethane	ND	ug/L	1.0		1	08/23/22	08/23/22 13:13	1011
Bromoform	ND	ug/L	1.0		1	08/23/22	08/23/22 13:13	1011
Bromomethane	ND	ug/L	1.0		1	08/23/22	08/23/22 13:13	1011
2-Butanone (MEK)	ND	ug/L	5.0		1	08/23/22	08/23/22 13:13	1011
Carbon Disulfide	ND	ug/L	1.0		1	08/23/22	08/23/22 13:13	1011
Carbon tetrachloride	ND	ug/L	1.0		1	08/23/22	08/23/22 13:13	1011
Chlorobenzene	ND	ug/L	1.0		1	08/23/22	08/23/22 13:13	1011
Chloroethane	ND	ug/L	1.0		1	08/23/22	08/23/22 13:13	1011
Chloroform	ND	ug/L	1.0		1	08/23/22	08/23/22 13:13	1011
Chloromethane	ND	ug/L	1.0		1	08/23/22	08/23/22 13:13	1011
Cyclohexane	ND	ug/L	1.0		1	08/23/22	08/23/22 13:13	1011
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0		1	08/23/22	08/23/22 13:13	1011
Dibromochloromethane	ND	ug/L	1.0		1	08/23/22	08/23/22 13:13	1011
1,2-Dibromoethane	ND	ug/L	1.0		1	08/23/22	08/23/22 13:13	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	08/23/22	08/23/22 13:13	1011

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Project Name: Chestertown LSI
 PSS Project No.: 22081811

Sample ID: TW-5	Date/Time Sampled: 08/17/2022 10:00 PSS Sample ID: 22081811-006						
Matrix: GROUND WATER	Date/Time Received: 08/18/2022 11:20						

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5030B

Qualifier(s): See Batch 196592 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,3-Dichlorobenzene	ND	ug/L	1.0	1		08/23/22	08/23/22 13:13	1011
Dichlorodifluoromethane	ND	ug/L	1.0	1		08/23/22	08/23/22 13:13	1011
1,4-Dichlorobenzene	ND	ug/L	1.0	1		08/23/22	08/23/22 13:13	1011
1,1-Dichloroethane	ND	ug/L	1.0	1		08/23/22	08/23/22 13:13	1011
1,2-Dichloroethane	ND	ug/L	1.0	1		08/23/22	08/23/22 13:13	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		08/23/22	08/23/22 13:13	1011
1,1-Dichloroethene	ND	ug/L	1.0	1		08/23/22	08/23/22 13:13	1011
1,2-Dichloropropane	ND	ug/L	1.0	1		08/23/22	08/23/22 13:13	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		08/23/22	08/23/22 13:13	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		08/23/22	08/23/22 13:13	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		08/23/22	08/23/22 13:13	1011
Ethylbenzene	ND	ug/L	1.0	1		08/23/22	08/23/22 13:13	1011
2-Hexanone (MBK)	ND	ug/L	5.0	1		08/23/22	08/23/22 13:13	1011
Isopropylbenzene	1.6	ug/L	1.0	1		08/23/22	08/23/22 13:13	1011
Methyl Acetate	ND	ug/L	1.0	1		08/23/22	08/23/22 13:13	1011
Methylcyclohexane	ND	ug/L	1.0	1		08/23/22	08/23/22 13:13	1011
Methylene chloride	ND	ug/L	1.0	1		08/23/22	08/23/22 13:13	1011
4-Methyl-2-Pantanone (MIBK)	ND	ug/L	5.0	1		08/23/22	08/23/22 13:13	1011
Methyl-t-Butyl Ether	ND	ug/L	1.0	1		08/23/22	08/23/22 13:13	1011
Naphthalene	9.8	ug/L	1.0	1		08/23/22	08/23/22 13:13	1011
Styrene	ND	ug/L	1.0	1		08/23/22	08/23/22 13:13	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		08/23/22	08/23/22 13:13	1011
Tetrachloroethene	ND	ug/L	1.0	1		08/23/22	08/23/22 13:13	1011
Toluene	ND	ug/L	1.0	1		08/23/22	08/23/22 13:13	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		08/23/22	08/23/22 13:13	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		08/23/22	08/23/22 13:13	1011
1,1,1-Trichloroethane	ND	ug/L	1.0	1		08/23/22	08/23/22 13:13	1011
Trichloroethene	ND	ug/L	1.0	1		08/23/22	08/23/22 13:13	1011
1,1,2-Trichloroethane	ND	ug/L	1.0	1		08/23/22	08/23/22 13:13	1011
Trichlorofluoromethane	ND	ug/L	1.0	1		08/23/22	08/23/22 13:13	1011
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		08/23/22	08/23/22 13:13	1011
Vinyl chloride	ND	ug/L	1.0	1		08/23/22	08/23/22 13:13	1011
m&p-Xylene	ND	ug/L	2.0	1		08/23/22	08/23/22 13:13	1011
o-Xylene	ND	ug/L	1.0	1		08/23/22	08/23/22 13:13	1011

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Project Name: Chestertown LSI
PSS Project No.: 22081811

Sample ID: TW-5 Date/Time Sampled: 08/17/2022 10:00 PSS Sample ID: 22081811-006

Matrix: GROUND WATER Date/Time Received: 08/18/2022 11:20

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5030B

Qualifier(s): See Batch 196592 on Case Narrative.

Surrogate(s)	Recovery	Limits					
4-Bromofluorobenzene	98 %	88-120	1	08/23/22	08/23/22 13:13	1011	
Dibromofluoromethane	100 %	92-107	1	08/23/22	08/23/22 13:13	1011	
Toluene-D8	100 %	95-106	1	08/23/22	08/23/22 13:13	1011	

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Project Name: Chestertown LSI
 PSS Project No.: 22081811

Sample ID: TW-6	Date/Time Sampled: 08/17/2022 10:30			PSS Sample ID: 22081811-007		
Matrix: GROUND WATER	Date/Time Received: 08/18/2022 11:20					

Total Petroleum Hydrocarbons - DRO Analytical Method: SW-846 8015C DRO Preparation Method: SW3510C

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	0.45	mg/L	0.10		1	08/22/22	08/22/22 13:36	1069
Surrogate(s)	Recovery		Limits					
o-Terphenyl	93	%	52-100		1	08/22/22	08/22/22 13:36	1069

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C GRO Preparation Method: SW5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	08/22/22	08/22/22 15:39	1045
Surrogate(s)	Recovery		Limits					
a,a,a-Trifluorotoluene	85	%	79-114		1	08/22/22	08/22/22 15:39	1045

TCL Volatile Organic Compounds Analytical Method: SW-846 8260 D Preparation Method: SW5030B

Qualifier(s): See Batch 196592 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	5.0		1	08/23/22	08/23/22 12:03	1011
Benzene	ND	ug/L	1.0		1	08/23/22	08/23/22 12:03	1011
Bromochloromethane	ND	ug/L	1.0		1	08/23/22	08/23/22 12:03	1011
Bromodichloromethane	ND	ug/L	1.0		1	08/23/22	08/23/22 12:03	1011
Bromoform	ND	ug/L	1.0		1	08/23/22	08/23/22 12:03	1011
Bromomethane	ND	ug/L	1.0		1	08/23/22	08/23/22 12:03	1011
2-Butanone (MEK)	ND	ug/L	5.0		1	08/23/22	08/23/22 12:03	1011
Carbon Disulfide	ND	ug/L	1.0		1	08/23/22	08/23/22 12:03	1011
Carbon tetrachloride	ND	ug/L	1.0		1	08/23/22	08/23/22 12:03	1011
Chlorobenzene	ND	ug/L	1.0		1	08/23/22	08/23/22 12:03	1011
Chloroethane	ND	ug/L	1.0		1	08/23/22	08/23/22 12:03	1011
Chloroform	ND	ug/L	1.0		1	08/23/22	08/23/22 12:03	1011
Chloromethane	ND	ug/L	1.0		1	08/23/22	08/23/22 12:03	1011
Cyclohexane	ND	ug/L	1.0		1	08/23/22	08/23/22 12:03	1011
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0		1	08/23/22	08/23/22 12:03	1011
Dibromochloromethane	ND	ug/L	1.0		1	08/23/22	08/23/22 12:03	1011
1,2-Dibromoethane	ND	ug/L	1.0		1	08/23/22	08/23/22 12:03	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	08/23/22	08/23/22 12:03	1011

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Project Name: Chestertown LSI
 PSS Project No.: 22081811

Sample ID: TW-6	Date/Time Sampled: 08/17/2022 10:30	PSS Sample ID: 22081811-007
Matrix: GROUND WATER	Date/Time Received: 08/18/2022 11:20	

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5030B

Qualifier(s): See Batch 196592 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,3-Dichlorobenzene	ND	ug/L	1.0	1		08/23/22	08/23/22 12:03	1011
Dichlorodifluoromethane	ND	ug/L	1.0	1		08/23/22	08/23/22 12:03	1011
1,4-Dichlorobenzene	ND	ug/L	1.0	1		08/23/22	08/23/22 12:03	1011
1,1-Dichloroethane	ND	ug/L	1.0	1		08/23/22	08/23/22 12:03	1011
1,2-Dichloroethane	ND	ug/L	1.0	1		08/23/22	08/23/22 12:03	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		08/23/22	08/23/22 12:03	1011
1,1-Dichloroethene	ND	ug/L	1.0	1		08/23/22	08/23/22 12:03	1011
1,2-Dichloropropane	ND	ug/L	1.0	1		08/23/22	08/23/22 12:03	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		08/23/22	08/23/22 12:03	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		08/23/22	08/23/22 12:03	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		08/23/22	08/23/22 12:03	1011
Ethylbenzene	ND	ug/L	1.0	1		08/23/22	08/23/22 12:03	1011
2-Hexanone (MBK)	ND	ug/L	5.0	1		08/23/22	08/23/22 12:03	1011
Isopropylbenzene	ND	ug/L	1.0	1		08/23/22	08/23/22 12:03	1011
Methyl Acetate	ND	ug/L	1.0	1		08/23/22	08/23/22 12:03	1011
Methylcyclohexane	ND	ug/L	1.0	1		08/23/22	08/23/22 12:03	1011
Methylene chloride	ND	ug/L	1.0	1		08/23/22	08/23/22 12:03	1011
4-Methyl-2-Pantanone (MIBK)	ND	ug/L	5.0	1		08/23/22	08/23/22 12:03	1011
Methyl-t-Butyl Ether	ND	ug/L	1.0	1		08/23/22	08/23/22 12:03	1011
Naphthalene	3.9	ug/L	1.0	1		08/23/22	08/23/22 12:03	1011
Styrene	ND	ug/L	1.0	1		08/23/22	08/23/22 12:03	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		08/23/22	08/23/22 12:03	1011
Tetrachloroethene	ND	ug/L	1.0	1		08/23/22	08/23/22 12:03	1011
Toluene	ND	ug/L	1.0	1		08/23/22	08/23/22 12:03	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		08/23/22	08/23/22 12:03	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		08/23/22	08/23/22 12:03	1011
1,1,1-Trichloroethane	ND	ug/L	1.0	1		08/23/22	08/23/22 12:03	1011
Trichloroethene	ND	ug/L	1.0	1		08/23/22	08/23/22 12:03	1011
1,1,2-Trichloroethane	ND	ug/L	1.0	1		08/23/22	08/23/22 12:03	1011
Trichlorofluoromethane	ND	ug/L	1.0	1		08/23/22	08/23/22 12:03	1011
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		08/23/22	08/23/22 12:03	1011
Vinyl chloride	ND	ug/L	1.0	1		08/23/22	08/23/22 12:03	1011
m&p-Xylene	ND	ug/L	2.0	1		08/23/22	08/23/22 12:03	1011
o-Xylene	ND	ug/L	1.0	1		08/23/22	08/23/22 12:03	1011

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Project Name: Chestertown LSI
PSS Project No.: 22081811

Sample ID: TW-6 **Date/Time Sampled:** 08/17/2022 10:30 **PSS Sample ID:** 22081811-007

Matrix: GROUND WATER **Date/Time Received:** 08/18/2022 11:20

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5030B

Qualifier(s): See Batch 196592 on Case Narrative.

Surrogate(s)	Recovery	Limits					
4-Bromofluorobenzene	97 %	88-120	1	08/23/22	08/23/22 12:03	1011	
Dibromofluoromethane	100 %	92-107	1	08/23/22	08/23/22 12:03	1011	
Toluene-D8	100 %	95-106	1	08/23/22	08/23/22 12:03	1011	

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Project Name: Chestertown LSI
 PSS Project No.: 22081811

Sample ID: TW-8 **Date/Time Sampled: 08/17/2022 09:30** **PSS Sample ID: 22081811-008**

Matrix: GROUND WATER

Date/Time Received: 08/18/2022 11:20

Total Petroleum Hydrocarbons - DRO

Analytical Method: SW-846 8015C DRO

Preparation Method: SW3510C

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/L	0.10	1		08/22/22	08/22/22 13:36	1069
Surrogate(s)	Recovery		Limits					
<i>o-Terphenyl</i>	79	%	52-100	1		08/22/22	08/22/22 13:36	1069

Total Petroleum Hydrocarbons-GRO

Analytical Method: SW-846 8015C GRO

Preparation Method: SW5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100	1		08/22/22	08/22/22 16:02	1045
Surrogate(s)	Recovery		Limits					
<i>a,a,a-Trifluorotoluene</i>	87	%	79-114	1		08/22/22	08/22/22 16:02	1045

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5030B

Qualifier(s): See Batch 196592 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	10	ug/L	5.0	1		08/23/22	08/23/22 12:26	1011
Benzene	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011
Bromochloromethane	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011
Bromodichloromethane	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011
Bromoform	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011
Bromomethane	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011
2-Butanone (MEK)	ND	ug/L	5.0	1		08/23/22	08/23/22 12:26	1011
Carbon Disulfide	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011
Carbon tetrachloride	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011
Chlorobenzene	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011
Chloroethane	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011
Chloroform	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011
Chloromethane	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011
Cyclohexane	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011
Dibromochloromethane	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011
1,2-Dibromoethane	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011
1,2-Dichlorobenzene	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011

Certificate of Analysis

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Project Name: Chestertown LSI
 PSS Project No.: 22081811

Sample ID: TW-8	Date/Time Sampled: 08/17/2022 09:30	PSS Sample ID: 22081811-008
Matrix: GROUND WATER	Date/Time Received: 08/18/2022 11:20	

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5030B

Qualifier(s): See Batch 196592 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,3-Dichlorobenzene	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011
Dichlorodifluoromethane	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011
1,4-Dichlorobenzene	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011
1,1-Dichloroethane	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011
1,2-Dichloroethane	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011
1,1-Dichloroethene	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011
1,2-Dichloropropane	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011
Ethylbenzene	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011
2-Hexanone (MBK)	ND	ug/L	5.0	1		08/23/22	08/23/22 12:26	1011
Isopropylbenzene	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011
Methyl Acetate	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011
Methylcyclohexane	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011
Methylene chloride	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011
4-Methyl-2-Pantanone (MIBK)	ND	ug/L	5.0	1		08/23/22	08/23/22 12:26	1011
Methyl-t-Butyl Ether	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011
Naphthalene	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011
Styrene	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011
Tetrachloroethene	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011
Toluene	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011
1,1,1-Trichloroethane	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011
Trichloroethene	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011
1,1,2-Trichloroethane	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011
Trichlorofluoromethane	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011
Vinyl chloride	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011
m&p-Xylene	ND	ug/L	2.0	1		08/23/22	08/23/22 12:26	1011
o-Xylene	ND	ug/L	1.0	1		08/23/22	08/23/22 12:26	1011

Certificate of Analysis

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Project Name: Chestertown LSI
PSS Project No.: 22081811

Sample ID: TW-8 **Date/Time Sampled:** 08/17/2022 09:30 **PSS Sample ID:** 22081811-008

Matrix: GROUND WATER **Date/Time Received:** 08/18/2022 11:20

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 D

Preparation Method: SW5030B

Qualifier(s): See Batch 196592 on Case Narrative.

Surrogate(s)	Recovery	Limits					
4-Bromofluorobenzene	101 %	88-120	1	08/23/22	08/23/22 12:26	1011	
Dibromofluoromethane	99 %	92-107	1	08/23/22	08/23/22 12:26	1011	
Toluene-D8	99 %	95-106	1	08/23/22	08/23/22 12:26	1011	

Project Name: Chestertown LSI

PSS Project No.: 22081811

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

Matrix spike and matrix spike duplicate analyses may not be performed due to insufficient sample quantity. In these instances, a laboratory control sample and laboratory control sample duplicate are analyzed unless otherwise noted or specified in the method.

Sample Receipt:

Preservative not indicated on COC for GRO. Received containers preserved with HCl.

Analytical:**TCL Volatile Organic Compounds****Batch: 196592**

Laboratory control sample (LCS) exceedances identified; see QC summary. Exceedances meet marginal exceedance criteria.

Analytical:**TCL Volatiles plus Oxygenates****Batch: 196552**

Continuing calibration verification standard (CCV) meets method criteria in that more than 80% of analytes are within acceptance limits, see QC summary.

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

Project Name: Chestertown LSI
 PSS Project No.: 22081811

Method	Client Sample ID	Analysis Type	PSS Sample ID	Mtx	Prep Batch	Analytical Batch	Prepared	Analyzed
SW-846 8015C DRO	TW-3	Initial	22081811-003	W	91979	196558	08/22/2022 09:14	08/22/2022 12:46
	TW-4	Initial	22081811-005	W	91979	196558	08/22/2022 09:14	08/22/2022 13:11
	TW-6	Initial	22081811-007	W	91979	196558	08/22/2022 09:14	08/22/2022 13:36
	91979-1-BKS	BKS	91979-1-BKS	W	91979	196558	08/22/2022 09:14	08/22/2022 11:56
	91979-1-BLK	BLK	91979-1-BLK	W	91979	196558	08/22/2022 09:14	08/22/2022 11:31
	91979-1-BSD	BSD	91979-1-BSD	W	91979	196558	08/22/2022 09:14	08/22/2022 12:21
	TW-1	Initial	22081811-001	W	91979	196560	08/22/2022 09:14	08/22/2022 11:56
	TW-2	Initial	22081811-002	W	91979	196560	08/22/2022 09:14	08/22/2022 12:21
	TW-7	Initial	22081811-004	W	91979	196560	08/22/2022 09:14	08/22/2022 12:46
	TW-5	Initial	22081811-006	W	91979	196560	08/22/2022 09:14	08/22/2022 13:11
	TW-8	Initial	22081811-008	W	91979	196560	08/22/2022 09:14	08/22/2022 13:36
SW-846 8015C GRO	TW-1	Initial	22081811-001	W	92010	196568	08/22/2022 08:45	08/22/2022 13:21
	TW-2	Initial	22081811-002	W	92010	196568	08/22/2022 08:45	08/22/2022 13:44
	TW-3	Initial	22081811-003	W	92010	196568	08/22/2022 08:45	08/22/2022 14:07
	TW-7	Initial	22081811-004	W	92010	196568	08/22/2022 08:45	08/22/2022 14:30
	TW-4	Initial	22081811-005	W	92010	196568	08/22/2022 08:45	08/22/2022 14:53
	TW-5	Initial	22081811-006	W	92010	196568	08/22/2022 08:45	08/22/2022 15:16
	TW-6	Initial	22081811-007	W	92010	196568	08/22/2022 08:45	08/22/2022 15:39
	TW-8	Initial	22081811-008	W	92010	196568	08/22/2022 08:45	08/22/2022 16:02
	92010-2-BKS	BKS	92010-2-BKS	W	92010	196568	08/22/2022 08:45	08/22/2022 09:08
	92010-2-BLK	BLK	92010-2-BLK	W	92010	196568	08/22/2022 08:45	08/22/2022 11:49
	92010-2-BSD	BSD	92010-2-BSD	W	92010	196568	08/22/2022 08:45	08/22/2022 09:31
	Discharge Sample S	MS	22081808-001 S	W	92010	196568	08/22/2022 08:45	08/22/2022 10:40
SW-846 8260 D	Discharge Sample SD	MSD	22081808-001 S	W	92010	196568	08/22/2022 08:45	08/22/2022 11:03
	TW-1	Initial	22081811-001	W	92005	196552	08/22/2022 14:51	08/23/2022 00:49
	TW-2	Initial	22081811-002	W	92005	196552	08/22/2022 14:51	08/23/2022 01:11
	TW-3	Initial	22081811-003	W	92005	196552	08/22/2022 14:51	08/23/2022 01:34
	TW-7	Initial	22081811-004	W	92005	196552	08/22/2022 14:51	08/23/2022 01:57
	92005-1-BKS	BKS	92005-1-BKS	W	92005	196552	08/22/2022 14:51	08/22/2022 14:51
	92005-1-BLK	BLK	92005-1-BLK	W	92005	196552	08/22/2022 14:51	08/22/2022 16:51
	MW-6 S	MS	22081202-006 S	W	92005	196552	08/22/2022 14:51	08/22/2022 17:59
	MW-6 SD	MSD	22081202-006 S	W	92005	196552	08/22/2022 14:51	08/22/2022 18:22
	TW-4	Initial	22081811-005	W	92019	196592	08/23/2022 09:40	08/23/2022 11:40
	TW-5	Initial	22081811-006	W	92019	196592	08/23/2022 09:40	08/23/2022 13:13
	TW-6	Initial	22081811-007	W	92019	196592	08/23/2022 09:40	08/23/2022 12:03
	TW-8	Initial	22081811-008	W	92019	196592	08/23/2022 09:40	08/23/2022 12:26
	92019-1-BKS	BKS	92019-1-BKS	W	92019	196592	08/23/2022 09:40	08/23/2022 09:40
	92019-1-BLK	BLK	92019-1-BLK	W	92019	196592	08/23/2022 09:40	08/23/2022 11:17
	TW-4 S	MS	22081811-005 S	W	92019	196592	08/23/2022 09:40	08/23/2022 14:44
	TW-4 SD	MSD	22081811-005 S	W	92019	196592	08/23/2022 09:40	08/23/2022 15:07

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QC Summary

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Project Name Chestertown LSI

PSS Project No.: 22081811

Analytical Method: SW-846 8015C DRO

Prep Method: SW3510C

Seq Number: 196558

Matrix: Water Date Prep: 08/22/22

MB Sample Id: 91979-1-BLK

LCS Sample Id: 91979-1-BKS

LCSD Sample Id: 91979-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	RPD	RPD Limit	Units	Flag
TPH-DRO (Diesel Range Organics)	<0.1000	1.000	0.9552	96	0.9574	96	63-119	0	21	mg/L	
Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	LCSD Result	LCSD Flag	Limits			Units	
o-Terphenyl	91		88		89		52-100			%	

Analytical Method: SW-846 8015C GRO

Prep Method: SW5030B

Seq Number: 196568

Matrix: Water Date Prep: 08/22/22

MB Sample Id: 92010-2-BLK

LCS Sample Id: 92010-2-BKS

LCSD Sample Id: 92010-2-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	RPD	RPD Limit	Units	Flag
TPH-GRO (Gasoline Range Organic)	<100	5000	4797	96	4444	89	76-122	8	20	ug/L	
Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	LCSD Result	LCSD Flag	Limits			Units	
a,a,a-Trifluorotoluene	86		95		94		79-114			%	

Project Name Chestertown LSI

PSS Project No.: 22081811

Analytical Method: SW-846 8260 D

Seq Number: 196552

MB Sample Id: 92005-1-BLK

Matrix: Water

LCS Sample Id: 92005-1-BKS

Prep Method: SW5030B

Date Prep: 08/22/22

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Flag
Acetone	<5.000	50.00	46.36	93	49-154	ug/L	
Benzene	<1.000	50.00	50.47	101	76-112	ug/L	
Bromochloromethane	<1.000	50.00	53.26	107	74-119	ug/L	
Bromodichloromethane	<1.000	50.00	51.89	104	78-117	ug/L	
Bromoform	<1.000	50.00	54.52	109	69-123	ug/L	
Bromomethane	<1.000	50.00	49.20	98	42-118	ug/L	
2-Butanone (MEK)	<5.000	50.00	49.37	99	55-136	ug/L	
Carbon Disulfide	<1.000	50.00	49.52	99	80-124	ug/L	
Carbon tetrachloride	<1.000	50.00	50.02	100	77-119	ug/L	
Chlorobenzene	<1.000	50.00	52.22	104	76-114	ug/L	
Chloroethane	<1.000	50.00	44.48	89	61-113	ug/L	
Chloroform	<1.000	50.00	48.89	98	75-113	ug/L	
Chloromethane	<1.000	50.00	42.87	86	41-148	ug/L	
Cyclohexane	<1.000	50.00	49.39	99	76-135	ug/L	
1,2-Dibromo-3-chloropropane	<1.000	50.00	55.63	111	52-131	ug/L	
Dibromochloromethane	<1.000	50.00	51.55	103	79-121	ug/L	
1,2-Dibromoethane	<1.000	50.00	54.11	108	77-119	ug/L	
1,2-Dichlorobenzene	<1.000	50.00	58.73	117	75-121	ug/L	
1,3-Dichlorobenzene	<1.000	50.00	56.75	114	77-120	ug/L	
Dichlorodifluoromethane	<1.000	50.00	37.50	75	49-122	ug/L	
1,4-Dichlorobenzene	<1.000	50.00	56.82	114	76-118	ug/L	
1,1-Dichloroethane	<1.000	50.00	49.23	98	75-118	ug/L	
1,2-Dichloroethane	<1.000	50.00	47.93	96	72-115	ug/L	
cis-1,2-Dichloroethene	<1.000	50.00	52.13	104	75-119	ug/L	
1,1-Dichloroethene	<1.000	50.00	48.02	96	74-119	ug/L	
1,2-Dichloropropane	<1.000	50.00	50.48	101	76-115	ug/L	
cis-1,3-Dichloropropene	<1.000	50.00	50.27	101	83-122	ug/L	
trans-1,3-Dichloropropene	<1.000	50.00	50.71	101	76-118	ug/L	
trans-1,2-Dichloroethene	<1.000	50.00	50.86	102	73-121	ug/L	
Ethylbenzene	<1.000	50.00	51.79	104	78-118	ug/L	
2-Hexanone (MBK)	<5.000	50.00	52.25	105	55-136	ug/L	
Isopropylbenzene	<1.000	50.00	54.73	109	76-126	ug/L	
Methyl Acetate	<1.000	50.00	52.66	105	61-117	ug/L	
Methylcyclohexane	<1.000	50.00	50.68	101	82-126	ug/L	
Methylene chloride	<1.000	50.00	49.84	100	75-113	ug/L	
4-Methyl-2-Pentanone (MIBK)	<5.000	50.00	51.45	103	57-127	ug/L	
Methyl-t-Butyl Ether	<1.000	50.00	52.08	104	71-114	ug/L	
Naphthalene	<1.000	50.00	58.20	116	60-122	ug/L	
Styrene	<1.000	50.00	55.56	111	81-124	ug/L	
1,1,2,2-Tetrachloroethane	<1.000	50.00	57.87	116	66-123	ug/L	
Tetrachloroethene	<1.000	50.00	52.06	104	76-123	ug/L	
Toluene	<1.000	50.00	50.60	101	77-112	ug/L	
1,2,3-Trichlorobenzene	<1.000	50.00	59.56	119	73-129	ug/L	
1,2,4-Trichlorobenzene	<1.000	50.00	58.63	117	73-130	ug/L	
1,1,1-Trichloroethane	<1.000	50.00	49.52	99	79-118	ug/L	
Trichloroethene	<1.000	50.00	50.48	101	77-112	ug/L	
1,1,2-Trichloroethane	<1.000	50.00	52.81	106	75-115	ug/L	
Trichlorofluoromethane	<1.000	50.00	46.01	92	74-125	ug/L	
1,1,2-Trichlorotrifluoroethane	<1.000	50.00	47.55	95	77-123	ug/L	
Vinyl chloride	<1.000	50.00	40.05	80	53-151	ug/L	
m&p-Xylene	<2.000	100	104.6	105	79-121	ug/L	

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Project Name Chestertown LSI

PSS Project No.: 22081811

Analytical Method: SW-846 8260 D

Seq Number: 196552

Matrix: Water

Prep Method: SW5030B

MB Sample Id: 92005-1-BLK

LCS Sample Id: 92005-1-BKS

Date Prep: 08/22/22

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Flag
o-Xylene	<1.000	50.00	52.88	106	78-122	ug/L	
Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	Limits	Units	
4-Bromofluorobenzene	103		98		88-120	%	
Dibromofluoromethane	101		101		92-107	%	
Toluene-D8	99		100		95-106	%	

Project Name Chestertown LSI

PSS Project No.: 22081811

Analytical Method: SW-846 8260 D

Seq Number: 196592

Matrix: Water

Prep Method: SW5030B

MB Sample Id: 92019-1-BLK

LCS Sample Id: 92019-1-BKS

Date Prep: 08/23/22

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Flag
Acetone	<5.000	50.00	46.04	92	49-154	ug/L	
Benzene	<1.000	50.00	56.54	113	76-112	ug/L	H
Bromochloromethane	<1.000	50.00	58.40	117	74-119	ug/L	
Bromodichloromethane	<1.000	50.00	57.33	115	78-117	ug/L	
Bromoform	<1.000	50.00	55.04	110	69-123	ug/L	
Bromomethane	<1.000	50.00	50.44	101	42-118	ug/L	
2-Butanone (MEK)	<5.000	50.00	50.60	101	55-136	ug/L	
Carbon Disulfide	<1.000	50.00	54.75	110	80-124	ug/L	
Carbon tetrachloride	<1.000	50.00	55.62	111	77-119	ug/L	
Chlorobenzene	<1.000	50.00	56.74	113	76-114	ug/L	
Chloroethane	<1.000	50.00	46.39	93	61-113	ug/L	
Chloroform	<1.000	50.00	54.22	108	75-113	ug/L	
Chloromethane	<1.000	50.00	47.94	96	41-148	ug/L	
Cyclohexane	<1.000	50.00	55.71	111	76-135	ug/L	
1,2-Dibromo-3-chloropropane	<1.000	50.00	50.52	101	52-131	ug/L	
Dibromochloromethane	<1.000	50.00	54.60	109	79-121	ug/L	
1,2-Dibromoethane	<1.000	50.00	56.97	114	77-119	ug/L	
1,2-Dichlorobenzene	<1.000	50.00	57.77	116	75-121	ug/L	
1,3-Dichlorobenzene	<1.000	50.00	57.74	115	77-120	ug/L	
Dichlorodifluoromethane	<1.000	50.00	41.93	84	49-122	ug/L	
1,4-Dichlorobenzene	<1.000	50.00	57.28	115	76-118	ug/L	
1,1-Dichloroethane	<1.000	50.00	55.27	111	75-118	ug/L	
1,2-Dichloroethane	<1.000	50.00	52.72	105	72-115	ug/L	
cis-1,2-Dichloroethene	<1.000	50.00	58.11	116	75-119	ug/L	
1,1-Dichloroethene	<1.000	50.00	54.41	109	74-119	ug/L	
1,2-Dichloropropane	<1.000	50.00	56.19	112	76-115	ug/L	
cis-1,3-Dichloropropene	<1.000	50.00	55.35	111	83-122	ug/L	
trans-1,3-Dichloropropene	<1.000	50.00	54.19	108	76-118	ug/L	
trans-1,2-Dichloroethene	<1.000	50.00	57.29	115	73-121	ug/L	
Ethylbenzene	<1.000	50.00	56.52	113	78-118	ug/L	
2-Hexanone (MBK)	<5.000	50.00	47.69	95	55-136	ug/L	
Isopropylbenzene	<1.000	50.00	57.69	115	76-126	ug/L	
Methyl Acetate	<1.000	50.00	56.20	112	61-117	ug/L	
Methylcyclohexane	<1.000	50.00	57.06	114	82-126	ug/L	
Methylene chloride	<1.000	50.00	55.57	111	75-113	ug/L	
4-Methyl-2-Pentanone (MIBK)	<5.000	50.00	49.64	99	57-127	ug/L	
Methyl-t-Butyl Ether	<1.000	50.00	56.52	113	71-114	ug/L	
Naphthalene	<1.000	50.00	52.94	106	60-122	ug/L	
Styrene	<1.000	50.00	58.75	118	81-124	ug/L	
1,1,2,2-Tetrachloroethane	<1.000	50.00	55.42	111	66-123	ug/L	
Tetrachloroethene	<1.000	50.00	57.29	115	76-123	ug/L	
Toluene	<1.000	50.00	56.36	113	77-112	ug/L	H
1,2,3-Trichlorobenzene	<1.000	50.00	55.27	111	73-129	ug/L	
1,2,4-Trichlorobenzene	<1.000	50.00	55.69	111	73-130	ug/L	
1,1,1-Trichloroethane	<1.000	50.00	54.56	109	79-118	ug/L	
Trichloroethene	<1.000	50.00	56.91	114	77-112	ug/L	H
1,1,2-Trichloroethane	<1.000	50.00	56.35	113	75-115	ug/L	
Trichlorofluoromethane	<1.000	50.00	50.89	102	74-125	ug/L	
1,1,2-Trichlorotrifluoroethane	<1.000	50.00	54.68	109	77-123	ug/L	
Vinyl chloride	<1.000	50.00	54.58	109	53-151	ug/L	
m&p-Xylene	<2.000	100	113.7	114	79-121	ug/L	

PHASE**S**EPARATION**S**CIENCE**QC Summary**

6630 Baltimore National Pike

Baltimore, MD 21228

410-747-8770

800-932-9047

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Project Name Chestertown LSI

PSS Project No.: 22081811

Analytical Method: SW-846 8260 D

Seq Number: 196592

Matrix: Water

Prep Method: SW5030B

MB Sample Id: 92019-1-BLK

LCS Sample Id: 92019-1-BKS

Date Prep: 08/23/22

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Flag
o-Xylene	<1.000	50.00	57.07	114	78-122	ug/L	
Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	Limits	Units	
4-Bromofluorobenzene	101		97		88-120	%	
Dibromofluoromethane	99		100		92-107	%	
Toluene-D8	100		100		95-106	%	

Project Name Chestertown LSI

PSS Project No.: 22081811

Analytical Method: SW-846 8260 D

Seq Number: 196592

Matrix: Ground Water

Prep Method: SW5030B

Parent Sample Id: 22081811-005

MS Sample Id: 22081811-005 S

Date Prep: 08/23/22

MSD Sample Id: 22081811-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	RPD	RPD Limit	Units	Flag
Acetone	<5.000	50.00	35.84	72	34.83	70	32-96	3	25	ug/L	
Benzene	<1.000	50.00	50.86	102	48.54	97	73-114	5	25	ug/L	
Bromochloromethane	<1.000	50.00	51.45	103	49.97	100	70-114	3	25	ug/L	
Bromodichloromethane	<1.000	50.00	49.76	100	47.95	96	71-118	4	25	ug/L	
Bromoform	<1.000	50.00	47.42	95	47.53	95	59-127	0	25	ug/L	
Bromomethane	<1.000	50.00	48.17	96	48.26	97	26-131	0	25	ug/L	
2-Butanone (MEK)	<5.000	50.00	42.37	85	42.47	85	45-109	0	25	ug/L	
Carbon Disulfide	<1.000	50.00	49.45	99	47.73	95	71-130	4	25	ug/L	
Carbon tetrachloride	<1.000	50.00	48.75	98	46.96	94	74-119	4	25	ug/L	
Chlorobenzene	<1.000	50.00	50.04	100	48.60	97	73-115	3	25	ug/L	
Chloroethane	<1.000	50.00	41.81	84	38.91	78	60-124	7	25	ug/L	
Chloroform	<1.000	50.00	48.01	96	46.23	92	70-113	4	25	ug/L	
Chloromethane	<1.000	50.00	42.71	85	39.76	80	32-170	7	25	ug/L	
Cyclohexane	<1.000	50.00	48.70	97	46.16	92	64-144	5	25	ug/L	
1,2-Dibromo-3-chloropropane	<1.000	50.00	45.18	90	45.97	92	48-140	2	25	ug/L	
Dibromochloromethane	<1.000	50.00	47.64	95	47.35	95	73-120	1	25	ug/L	
1,2-Dibromoethane	<1.000	50.00	50.68	101	50.02	100	71-119	1	25	ug/L	
1,2-Dichlorobenzene	<1.000	50.00	48.71	97	48.81	98	68-122	0	25	ug/L	
1,3-Dichlorobenzene	<1.000	50.00	47.81	96	47.67	95	69-122	0	25	ug/L	
Dichlorodifluoromethane	<1.000	50.00	40.65	81	37.83	76	61-118	7	25	ug/L	
1,4-Dichlorobenzene	<1.000	50.00	47.45	95	47.59	95	68-120	0	25	ug/L	
1,1-Dichloroethane	<1.000	50.00	49.19	98	46.60	93	68-122	5	25	ug/L	
1,2-Dichloroethane	<1.000	50.00	46.62	93	44.62	89	61-120	4	25	ug/L	
cis-1,2-Dichloroethene	<1.000	50.00	51.86	104	50.03	100	71-116	4	25	ug/L	
1,1-Dichloroethene	<1.000	50.00	49.24	98	46.95	94	69-120	5	25	ug/L	
1,2-Dichloropropane	<1.000	50.00	49.76	100	47.79	96	69-119	4	25	ug/L	
cis-1,3-Dichloropropene	<1.000	50.00	47.20	94	46.58	93	72-123	1	25	ug/L	
trans-1,3-Dichloropropene	<1.000	50.00	46.24	92	45.33	91	67-123	2	25	ug/L	
trans-1,2-Dichloroethene	<1.000	50.00	51.66	103	48.79	98	70-118	6	25	ug/L	
Ethylbenzene	<1.000	50.00	49.48	99	47.55	95	74-121	4	25	ug/L	
2-Hexanone (MBK)	<5.000	50.00	43.56	87	42.09	84	44-131	3	25	ug/L	
Isopropylbenzene	<1.000	50.00	48.49	97	48.40	97	68-131	0	25	ug/L	
Methyl Acetate	<1.000	50.00	48.86	98	47.35	95	55-117	3	25	ug/L	
Methylcyclohexane	<1.000	50.00	43.67	87	41.31	83	71-126	6	25	ug/L	
Methylene chloride	<1.000	50.00	49.66	99	47.49	95	72-114	4	25	ug/L	
4-Methyl-2-Pentanone (MIBK)	<5.000	50.00	45.92	92	44.27	89	49-133	4	25	ug/L	
Methyl-t-Butyl Ether	<1.000	50.00	49.26	99	48.39	97	67-112	2	25	ug/L	
Naphthalene	<1.000	50.00	44.30	89	45.20	90	53-128	2	25	ug/L	
Styrene	<1.000	50.00	51.10	102	49.25	99	75-126	4	25	ug/L	
1,1,2,2-Tetrachloroethane	<1.000	50.00	51.08	102	51.45	103	61-125	1	25	ug/L	
Tetrachloroethene	<1.000	50.00	49.89	100	47.51	95	71-121	5	25	ug/L	
Toluene	<1.000	50.00	49.89	100	47.77	96	71-115	4	25	ug/L	
1,2,3-Trichlorobenzene	<1.000	50.00	40.24	80	41.05	82	60-124	2	25	ug/L	
1,2,4-Trichlorobenzene	<1.000	50.00	39.21	78	39.82	80	57-126	2	25	ug/L	
1,1,1-Trichloroethane	<1.000	50.00	48.71	97	47.02	94	72-121	4	25	ug/L	
Trichloroethene	<1.000	50.00	50.56	101	48.64	97	72-115	4	25	ug/L	
1,1,2-Trichloroethane	<1.000	50.00	50.30	101	48.97	98	70-114	3	25	ug/L	
Trichlorofluoromethane	<1.000	50.00	46.53	93	44.00	88	66-130	6	25	ug/L	
1,1,2-Trichlorotrifluoroethane	<1.000	50.00	48.57	97	46.32	93	71-121	5	25	ug/L	
Vinyl chloride	<1.000	50.00	45.89	92	43.98	88	40-160	4	25	ug/L	
m&p-Xylene	<2.000	100	98.88	99	94.58	95	73-125	4	25	ug/L	

PHASE**S**EPARATION**S**CIENCE**QC Summary**

6630 Baltimore National Pike

Baltimore, MD 21228

410-747-8770

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Project Name Chestertown LSI

PSS Project No.: 22081811

Analytical Method: SW-846 8260 D

Seq Number: 196592

Parent Sample Id: 22081811-005

Matrix: Ground Water

MS Sample Id: 22081811-005 S

Prep Method: SW5030B

Date Prep: 08/23/22

MSD Sample Id: 22081811-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	RPD	RPD Limit	Units	Flag
o-Xylene	<1.000	50.00	49.96	100	48.04	96	71-126	4	25	ug/L	
Surrogate			MS Result	MS Flag	MSD Result	MSD Flag	Limits			Units	
4-Bromofluorobenzene			98		98		88-120			%	
Dibromofluoromethane			98		99		92-107			%	
Toluene-D8			99		98		95-106			%	

F = RPD exceeded the laboratory control limits

X = Recovery of MS, MSD or both outside of QC Criteria

H= Recovery of BS,BSD or both exceeded the laboratory control limits

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

Project Name Chestertown LSI

PSS Project No.: 22081811

Analytical Method: SW-846 8015 C TCLP

Seq Number: 196558 Matrix: Water

CCV Sample Id: CCV-R2

Analyzed Date: 08/22/22 18:36

Parameter	Spike Amount	CCV Result	CCV %Rec	Limits	Units	Flag
TPH-DRO (Diesel Range Organics)	2500	2426	97	80-120	mg/L	
Surrogate		CCV Result				
o-Terphenyl		87		80-120	%	

Analytical Method: SW-846 8015 C TCLP

Seq Number: 192711 Matrix: Water

Parent Sample Id: ICV-01

ICV Sample Id: ICV-01

Analyzed Date: 03/29/22 16:06

Parameter	Spike Amount	ICV Result	ICV %Rec	Limits	Units	Flag
TPH-DRO (Diesel Range Organics)	2500	2418	97	80-120	mg/L	
Surrogate		ICV Result				
o-Terphenyl		97		80-120	%	

Analytical Method: SW-846 8015C DRO

Seq Number: 196558 Matrix: Water

CCV Sample Id: CCV-R1

Analyzed Date: 08/22/22 10:38

Parameter	Spike Amount	CCV Result	CCV %Rec	Limits	Units	Flag
TPH-DRO (Diesel Range Organics)	2500	2367	95	80-120	mg/L	
Surrogate		CCV Result				
o-Terphenyl		89		80-120	%	

Analytical Method: SW-846 8015C DRO

Seq Number: 196560 Matrix: Water

CCV Sample Id: CCV-F1

Analyzed Date: 08/22/22 10:38

Parameter	Spike Amount	CCV Result	CCV %Rec	Limits	Units	Flag
TPH-DRO (Diesel Range Organics)	2500	2600	104	80-120	mg/L	
Surrogate		CCV Result				
o-Terphenyl		96		80-120	%	

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QC Summary

6630 Baltimore National Pike
 Baltimore, MD 21228
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Project Name Chestertown LSI

PSS Project No.: 22081811

Analytical Method: SW-846 8015C DRO

Seq Number:	196560	Matrix:	Water	Analyzed Date:	08/22/22 18:36
CCV Sample Id:	CCV-F2				
Parameter	Spike Amount	CCV Result	CCV %Rec	Limits	Units
TPH-DRO (Diesel Range Organics)	2500	2757	110	80-120	mg/L
Surrogate		CCV Result		Limits	Units
o-Terphenyl		109		80-120	%

Analytical Method: SW-846 8015C DRO

Seq Number:	191075	Matrix:	Water	Analyzed Date:	01/27/22 17:43
Parent Sample Id:	ICV-01	ICV Sample Id:	ICV-01		
Parameter	Spike Amount	ICV Result	ICV %Rec	Limits	Units
TPH-DRO (Diesel Range Organics)	2500	2796	112	80-120	mg/L
Surrogate		ICV Result		Limits	Units
o-Terphenyl		113		80-120	%

Analytical Method: SW-846 8015C GRO

Seq Number:	196568	Matrix:	Water	Analyzed Date:	08/22/22 08:45
CCV Sample Id:	CCV, GRO-1				
Parameter	Spike Amount	CCV Result	CCV %Rec	Limits	Units
TPH-GRO (Gasoline Range Organic)	5000	4765	95	80-120	ug/L
Surrogate		CCV Result		Limits	Units
a,a,a-Trifluorotoluene		93		80-120	%

Analytical Method: SW-846 8015C GRO

Seq Number:	196568	Matrix:	Water	Analyzed Date:	08/22/22 16:48
CCV Sample Id:	CCV, GRO-2				
Parameter	Spike Amount	CCV Result	CCV %Rec	Limits	Units
TPH-GRO (Gasoline Range Organic)	5000	4817	96	80-120	ug/L
Surrogate		CCV Result		Limits	Units
a,a,a-Trifluorotoluene		93		80-120	%

Project Name Chestertown LSI

PSS Project No.: 22081811

Analytical Method: SW-846 8260 D

Seq Number: 196552

Matrix: Water

CCV Sample Id: CCV-01

Analyzed Date: 08/22/22 14:51

Parameter	Spike Amount	CCV Result	CCV %Rec	Limits	Units	Flag
Acetone	50.00	46.36	93	80-120	ug/L	
Benzene	50.00	50.47	101	80-120	ug/L	
Bromochloromethane	50.00	53.26	107	80-120	ug/L	
Bromodichloromethane	50.00	51.89	104	80-120	ug/L	
Bromoform	50.00	54.52	109	80-120	ug/L	
Bromomethane	50.00	49.20	98	80-120	ug/L	
2-Butanone (MEK)	50.00	49.37	99	80-120	ug/L	
Carbon Disulfide	50.00	49.52	99	80-120	ug/L	
Carbon tetrachloride	50.00	50.02	100	80-120	ug/L	
Chlorobenzene	50.00	52.22	104	80-120	ug/L	
Chloroethane	50.00	44.48	89	80-120	ug/L	
Chloroform	50.00	48.89	98	80-120	ug/L	
Chloromethane	50.00	42.87	86	80-120	ug/L	
Cyclohexane	50.00	49.39	99	80-120	ug/L	
1,2-Dibromo-3-chloropropane	50.00	55.63	111	80-120	ug/L	
Dibromochloromethane	50.00	51.55	103	80-120	ug/L	
1,2-Dibromoethane	50.00	54.11	108	80-120	ug/L	
1,2-Dichlorobenzene	50.00	58.73	117	80-120	ug/L	
1,3-Dichlorobenzene	50.00	56.75	114	80-120	ug/L	
Dichlorodifluoromethane	50.00	37.50	75	80-120	ug/L	X
1,4-Dichlorobenzene	50.00	56.82	114	80-120	ug/L	
1,1-Dichloroethane	50.00	49.23	98	80-120	ug/L	
1,2-Dichloroethane	50.00	47.93	96	80-120	ug/L	
cis-1,2-Dichloroethene	50.00	52.13	104	80-120	ug/L	
1,1-Dichloroethene	50.00	48.02	96	80-120	ug/L	
1,2-Dichloropropane	50.00	50.48	101	80-120	ug/L	
cis-1,3-Dichloropropene	50.00	50.27	101	80-120	ug/L	
trans-1,3-Dichloropropene	50.00	50.71	101	80-120	ug/L	
trans-1,2-Dichloroethene	50.00	50.86	102	80-120	ug/L	
Ethylbenzene	50.00	51.79	104	80-120	ug/L	
2-Hexanone (MBK)	50.00	52.25	105	80-120	ug/L	
Isopropylbenzene	50.00	54.73	109	80-120	ug/L	
Methyl Acetate	50.00	52.66	105	80-120	ug/L	
Methylcyclohexane	50.00	50.68	101	80-120	ug/L	
Methylene chloride	50.00	49.84	100	80-120	ug/L	
4-Methyl-2-Pantanone (MIBK)	50.00	51.45	103	80-120	ug/L	
Methyl-t-Butyl Ether	50.00	52.08	104	80-120	ug/L	
Naphthalene	50.00	58.20	116	80-120	ug/L	
Styrene	50.00	55.56	111	80-120	ug/L	
1,1,2,2-Tetrachloroethane	50.00	57.87	116	80-120	ug/L	
Tetrachloroethene	50.00	52.06	104	80-120	ug/L	
Toluene	50.00	50.60	101	80-120	ug/L	
1,2,3-Trichlorobenzene	50.00	59.56	119	80-120	ug/L	
1,2,4-Trichlorobenzene	50.00	58.63	117	80-120	ug/L	
1,1,1-Trichloroethane	50.00	49.52	99	80-120	ug/L	
Trichloroethene	50.00	50.48	101	80-120	ug/L	
1,1,2-Trichloroethane	50.00	52.81	106	80-120	ug/L	
Trichlorofluoromethane	50.00	46.01	92	80-120	ug/L	
1,1,2-Trichlorotrifluoroethane	50.00	47.55	95	80-120	ug/L	
Vinyl chloride	50.00	40.05	80	80-120	ug/L	
m&p-Xylene	100	104.6	105	80-120	ug/L	

PHASE**S**EPARATION**S**CIENCE**QC Summary**

6630 Baltimore National Pike

Baltimore, MD 21228

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Project Name Chestertown LSI

PSS Project No.: 22081811

Analytical Method: SW-846 8260 D

Seq Number: 196552

Matrix: Water

CCV Sample Id: CCV-01

Analyzed Date: 08/22/22 14:51

Parameter	Spike Amount	CCV Result	CCV %Rec	Limits	Units	Flag
o-Xylene	50.00	52.88	106	80-120	ug/L	
Surrogate						
4-Bromofluorobenzene		98		80-120	%	
Dibromofluoromethane		101		80-120	%	
Toluene-D8		100		80-120	%	

Project Name Chestertown LSI

PSS Project No.: 22081811

Analytical Method: SW-846 8260 D

Seq Number: 196592

Matrix: Water

CCV Sample Id: CCV-01

Analyzed Date: 08/23/22 09:40

Parameter	Spike Amount	CCV Result	CCV %Rec	Limits	Units	Flag
Acetone	50.00	46.04	92	80-120	ug/L	
Benzene	50.00	56.54	113	80-120	ug/L	
Bromochloromethane	50.00	58.40	117	80-120	ug/L	
Bromodichloromethane	50.00	57.33	115	80-120	ug/L	
Bromoform	50.00	55.04	110	80-120	ug/L	
Bromomethane	50.00	50.44	101	80-120	ug/L	
2-Butanone (MEK)	50.00	50.60	101	80-120	ug/L	
Carbon Disulfide	50.00	54.75	110	80-120	ug/L	
Carbon tetrachloride	50.00	55.62	111	80-120	ug/L	
Chlorobenzene	50.00	56.74	113	80-120	ug/L	
Chloroethane	50.00	46.39	93	80-120	ug/L	
Chloroform	50.00	54.22	108	80-120	ug/L	
Chloromethane	50.00	47.94	96	80-120	ug/L	
Cyclohexane	50.00	55.71	111	80-120	ug/L	
1,2-Dibromo-3-chloropropane	50.00	50.52	101	80-120	ug/L	
Dibromochloromethane	50.00	54.60	109	80-120	ug/L	
1,2-Dibromoethane	50.00	56.97	114	80-120	ug/L	
1,2-Dichlorobenzene	50.00	57.77	116	80-120	ug/L	
1,3-Dichlorobenzene	50.00	57.74	115	80-120	ug/L	
Dichlorodifluoromethane	50.00	41.93	84	80-120	ug/L	
1,4-Dichlorobenzene	50.00	57.28	115	80-120	ug/L	
1,1-Dichloroethane	50.00	55.27	111	80-120	ug/L	
1,2-Dichloroethane	50.00	52.72	105	80-120	ug/L	
cis-1,2-Dichloroethene	50.00	58.11	116	80-120	ug/L	
1,1-Dichloroethene	50.00	54.41	109	80-120	ug/L	
1,2-Dichloropropane	50.00	56.19	112	80-120	ug/L	
cis-1,3-Dichloropropene	50.00	55.35	111	80-120	ug/L	
trans-1,3-Dichloropropene	50.00	54.19	108	80-120	ug/L	
trans-1,2-Dichloroethene	50.00	57.29	115	80-120	ug/L	
Ethylbenzene	50.00	56.52	113	80-120	ug/L	
2-Hexanone (MBK)	50.00	47.69	95	80-120	ug/L	
Isopropylbenzene	50.00	57.69	115	80-120	ug/L	
Methyl Acetate	50.00	56.20	112	80-120	ug/L	
Methylcyclohexane	50.00	57.06	114	80-120	ug/L	
Methylene chloride	50.00	55.57	111	80-120	ug/L	
4-Methyl-2-Pantanone (MIBK)	50.00	49.64	99	80-120	ug/L	
Methyl-t-Butyl Ether	50.00	56.52	113	80-120	ug/L	
Naphthalene	50.00	52.94	106	80-120	ug/L	
Styrene	50.00	58.75	118	80-120	ug/L	
1,1,2,2-Tetrachloroethane	50.00	55.42	111	80-120	ug/L	
Tetrachloroethene	50.00	57.29	115	80-120	ug/L	
Toluene	50.00	56.36	113	80-120	ug/L	
1,2,3-Trichlorobenzene	50.00	55.27	111	80-120	ug/L	
1,2,4-Trichlorobenzene	50.00	55.69	111	80-120	ug/L	
1,1,1-Trichloroethane	50.00	54.56	109	80-120	ug/L	
Trichloroethene	50.00	56.91	114	80-120	ug/L	
1,1,2-Trichloroethane	50.00	56.35	113	80-120	ug/L	
Trichlorofluoromethane	50.00	50.89	102	80-120	ug/L	
1,1,2-Trichlorotrifluoroethane	50.00	54.68	109	80-120	ug/L	
Vinyl chloride	50.00	54.58	109	80-120	ug/L	
m&p-Xylene	100	113.7	114	80-120	ug/L	

PHASE**S**EPARATION**S**CIENCE**QC Summary**

6630 Baltimore National Pike

Baltimore, MD 21228

410-747-8770

800-932-9047

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Project Name Chestertown LSI

PSS Project No.: 22081811

Analytical Method: SW-846 8260 D

Seq Number: 196592

Matrix: Water

CCV Sample Id: CCV-01

Analyzed Date: 08/23/22 09:40

Parameter	Spike Amount	CCV Result	CCV %Rec	Limits	Units	Flag
o-Xylene	50.00	57.07	114	80-120	ug/L	
Surrogate						
4-Bromofluorobenzene		97		80-120	%	
Dibromofluoromethane		100		80-120	%	
Toluene-D8		100		80-120	%	

Project Name Chestertown LSI

PSS Project No.: 22081811

Analytical Method: SW-846 8260 D

Seq Number: 196353

Parent Sample Id: ICV-01

Matrix: Water

ICV Sample Id: ICV-01

Analyzed Date: 08/15/22 13:39

Parameter	Spike Amount	ICV Result	ICV %Rec	Limits	Units	Flag
Acetone	50.00	54.16	108	70-130	ug/L	
Benzene	50.00	56.25	113	70-130	ug/L	
Bromochloromethane	50.00	56.97	114	70-130	ug/L	
Bromodichloromethane	50.00	57.61	115	70-130	ug/L	
Bromoform	50.00	54.78	110	70-130	ug/L	
Bromomethane	50.00	56.21	112	70-130	ug/L	
2-Butanone (MEK)	50.00	54.55	109	70-130	ug/L	
Carbon Disulfide	50.00	58.56	117	70-130	ug/L	
Carbon tetrachloride	50.00	57.52	115	70-130	ug/L	
Chlorobenzene	50.00	56.07	112	70-130	ug/L	
Chloroethane	50.00	53.53	107	70-130	ug/L	
Chloroform	50.00	54.47	109	70-130	ug/L	
Chloromethane	50.00	55.09	110	70-130	ug/L	
Cyclohexane	50.00	57.86	116	70-130	ug/L	
1,2-Dibromo-3-chloropropane	50.00	56.55	113	70-130	ug/L	
Dibromochloromethane	50.00	55.02	110	70-130	ug/L	
1,2-Dibromoethane	50.00	58.74	117	70-130	ug/L	
1,2-Dichlorobenzene	50.00	58.38	117	70-130	ug/L	
1,3-Dichlorobenzene	50.00	57.53	115	70-130	ug/L	
Dichlorodifluoromethane	50.00	54.21	108	70-130	ug/L	
1,4-Dichlorobenzene	50.00	57.33	115	70-130	ug/L	
1,1-Dichloroethane	50.00	56.41	113	70-130	ug/L	
1,2-Dichloroethane	50.00	54.50	109	70-130	ug/L	
cis-1,2-Dichloroethene	50.00	57.31	115	70-130	ug/L	
1,1-Dichloroethene	50.00	55.40	111	70-130	ug/L	
1,2-Dichloropropane	50.00	57.29	115	70-130	ug/L	
cis-1,3-Dichloropropene	50.00	55.82	112	70-130	ug/L	
trans-1,3-Dichloropropene	50.00	55.72	111	70-130	ug/L	
trans-1,2-Dichloroethene	50.00	56.84	114	70-130	ug/L	
Ethylbenzene	50.00	56.70	113	70-130	ug/L	
2-Hexanone (MBK)	50.00	56.67	113	70-130	ug/L	
Isopropylbenzene	50.00	59.62	119	70-130	ug/L	
Methyl Acetate	50.00	59.73	119	70-130	ug/L	
Methylcyclohexane	50.00	56.82	114	70-130	ug/L	
Methylene chloride	50.00	56.18	112	70-130	ug/L	
4-Methyl-2-Pantanone (MIBK)	50.00	58.27	117	70-130	ug/L	
Methyl-t-Butyl Ether	50.00	59.91	120	70-130	ug/L	
Naphthalene	50.00	58.87	118	70-130	ug/L	
Styrene	50.00	58.77	118	70-130	ug/L	
1,1,2,2-Tetrachloroethane	50.00	59.48	119	70-130	ug/L	
Tetrachloroethene	50.00	55.17	110	70-130	ug/L	
Toluene	50.00	55.21	110	70-130	ug/L	
1,2,3-Trichlorobenzene	50.00	58.23	116	70-130	ug/L	
1,2,4-Trichlorobenzene	50.00	57.72	115	70-130	ug/L	
1,1,1-Trichloroethane	50.00	56.98	114	70-130	ug/L	
Trichloroethene	50.00	56.37	113	70-130	ug/L	
1,1,2-Trichloroethane	50.00	56.36	113	70-130	ug/L	
Trichlorofluoromethane	50.00	54.73	109	70-130	ug/L	
1,1,2-Trichlorotrifluoroethane	50.00	55.17	110	70-130	ug/L	
Vinyl chloride	50.00	52.14	104	70-130	ug/L	
m&p-Xylene	100	112.6	113	70-130	ug/L	

PHASE**S**EPARATION**S**CIENCE**QC Summary**

6630 Baltimore National Pike

Baltimore, MD 21228

410-747-8770

800-932-9047

www.phaseonline.com

Project Name Chestertown LSI

PSS Project No.: 22081811

Analytical Method: SW-846 8260 D

Seq Number: 196353

Matrix: Water

Parent Sample Id: ICV-01

ICV Sample Id: ICV-01

Analyzed Date: 08/15/22 13:39

Parameter	Spike Amount	ICV Result	ICV %Rec	Limits	Units	Flag
o-Xylene	50.00	56.32	113	70-130	ug/L	
Surrogate						
4-Bromofluorobenzene		102		70-130	%	
Dibromofluoromethane		101		70-130	%	
Toluene-D8		99		70-130	%	

X = Recovery outside of QC Criteria

CHAIN OF CUSTODY FORM

All fields must be completed accurately. Shaded sections for lab use only.

www.phaseonline.com ~ info@phaseonline.com

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① PSS CLIENT: <i>Apex Cos</i>		OFFICE LOCATION: <i>Rockville</i>		PSS Work Order #: <i>22081811</i>		PAGE <i>1</i> OF <i>1</i>					
BILL TO (if different):		PHONE #: <i>301 417 0200</i>		Matrix Codes: SW=Surface Water DW=Drinking Water GW=Ground Water WW=Waste Water O=Oil S=Soil SOL=Solid A=Air WI=Wipe							
CONTACT: <i>CMentzer</i>		EMAIL: <i>CMentzer@apexcbs.com</i>		# OF CONTAINERS	SAMPLE TYPE: C=COMPOSITE G=GRAB	Preservatives Use Codes Analysis/ Method Required ③	Preservative Codes 1 - HCl 2 - H ₂ SO ₄ 3 - HNO ₃ 4 - NaOH 5 - E624KIT 6 - ICE 7 - Sodium Thiosulfate 8 - Ascorbic Acid 9 - TerraCore Kit				
PROJECT NAME: <i>Chestertown LSi</i>		PROJECT #: <i>JOW029-030a016-22008272</i>									
SITE LOCATION: <i>Chestertown, MD</i>		P.O. #:		# OF CONTAINERS	SAMPLE TYPE: C=COMPOSITE G=GRAB	Preservatives Use Codes Analysis/ Method Required ③	Preservative Codes 1 - HCl 2 - H ₂ SO ₄ 3 - HNO ₃ 4 - NaOH 5 - E624KIT 6 - ICE 7 - Sodium Thiosulfate 8 - Ascorbic Acid 9 - TerraCore Kit				
SAMPLER(S): <i>Matt Friaoli</i>		DW CERT #:									
② PSS ID		SAMPLE IDENTIFICATION						DATE SAMPLED	TIME SAMPLED	MATRIX Use Codes	
1	TW-1	08/16	0850					GW	7	G	X X X
2	TW-2		0930						1		
3	TW-3		0950						1		
4	TW-7		1020						1		
5	TW-4	08/17	0900						1		
6	TW-5		1000						1		
7	TW-6		1030		1						
8	TW-8		0930		1						
⑤ Relinquished By: (1)		Date <i>8/18/12</i>	Time <i>11:22</i>	Received By: <i>[Signature]</i>	Requested TAT (One TAT per COC)		Ice Present: <i>PRES</i>				
Relinquished By: (2)		Date <i>8/18</i>	Time <i>11:00</i>	Received By: <i>[Signature]</i>	STATE RESULTS REPORTED TO: <input type="checkbox"/> MD <input type="checkbox"/> DE <input type="checkbox"/> PA <input type="checkbox"/> VA <input type="checkbox"/> WV <input type="checkbox"/> OTHER		Custody Seal: <i>ASS</i>				
Relinquished By: (3)		Date	Time	Received By: <i>[Signature]</i>	COMPLIANCE? <input type="checkbox"/> DW <input type="checkbox"/> WW		# Coolers: <i>2</i> Temp: <i>0.6 - 4.6 °C</i>				
Relinquished By: (4)		Date	Time	Received By:	EDD FORMAT TYPE		Shipping Carrier: <i>TTE</i>				

This chain of custody is a legal document. The client (PSS Client), by signing, or having client's agent sign, this "Chain of Custody Form", agrees to pay for the above requested services per the latest version of the Service Brochure of PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary.

Sample Receipt Checklist

6630 Baltimore National Pike

Baltimore, MD 21228

410-747-8770

800-932-9047

www.phaseonline.com

Project Name: Chestertown LSI

PSS Project No.: 22081811

Client Name Apex Companies, LLC**Received By** Jillian Chapman**Disposal Date** 09/22/2022**Date Received** 08/18/2022 11:20:00 AM**Delivered By** Trans Time Express**Tracking No** Not Applicable**Logged In By** Jillian Chapman**Shipping Container(s)**

No. of Coolers 2

Ice Present

Custody Seal(s) Intact?

N/A Temp (deg C) 4.6

Seal(s) Signed / Dated?

N/A Temp Blank Present No

Documentation

COC agrees with sample labels?

Yes Sampler Name Matt Fraioli

Chain of Custody

Yes MD DW Cert. No. N/A**Sample Container**

Appropriate for Specified Analysis?

Yes Custody Seal(s) Intact? Not Applicable

Intact?

Yes Seal(s) Signed / Dated Not Applicable

Labeled and Labels Legible?

Yes

Holding Time

All Samples Received Within Holding Time(s)? Yes

Total No. of Samples Received 8

Total No. of Containers Received 56

Preservation

Total Metals

(pH<2) N/A

Dissolved Metals, filtered within 15 minutes of collection

(pH<2) N/A

Orthophosphorus, filtered within 15 minutes of collection

N/A

Cyanides

(pH>12) N/A

Sulfide

(pH>9) N/A

TOC, DOC (field filtered), COD, Phenols

(pH<2) N/A

TOX, TKN, NH3, Total Phos

(pH<2) N/A

VOC, BTEX (VOA Vials Rcvd Preserved)

(pH<2) Yes

Do VOA vials have zero headspace?

Yes

624 VOC (Rcvd at least one unpreserved VOA vial)

N/A

524 VOC (Rcvd with trip blanks)

(pH<2) N/A

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

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

Preservative not indicated on COC for GRO. Received containers preserved with HCl.

Samples Inspected/Checklist Completed By:

Jillian Chapman

Date: 08/18/2022

Jillian Chapman

PM Review and Approval:

Amber Confer

Amber Confer

Page 46 of 46

Date: 08/18/2022

Version 1.000