



Advanced Environmental Concepts, Inc.

1751-1 Pulaski Hwy Havre De Grace, MD 21078 (410) 939-5550

Title:

Q2B 2022 Sampling Report

Project Site:

Charlie's Service Center
11024 Liberty Rd
Randallstown, MD 21133

MDE Case # 95-1777-BA

Prepared for:

Mr. Chris Brocato
11024 Liberty Rd
Randallstown, MD 21133

August 17, 2022

SIGNATURE SHEET

Prepared by:

Name: Greg Beal

Company: Advanced Environmental Concepts, Inc.

Address: 1751-1 Pulaski Highway

City/State/Zip: Havre De Grace, Maryland 21078

Telephone: (410) 939-5550

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1.0 INTRODUCTION

1.1 Purpose

This Monitoring Well Sampling Report is meant to satisfy the requirements set forth by the Maryland Department of the Environment (MDE). All sampling activities were conducted at the Charlie's Service Station located at 11024 Liberty Road Randallstown; Maryland 21133 referred to herein as the "site". This report also summarizes sampling performed in Q2 of 2022 and is supplemental to the Q2 report submitted in May of 2022.

1.2 Scope of Services

Advanced Environmental Concepts, Inc. (AEC) is providing a scope of service which consisted of

- Gauging and sampling of three (3) site monitoring wells (MWs)
- Calculating groundwater directional flow
- The sampling of the site's POET System
- The POET System servicing 4507 Wards Chapel Rd
- and the sampling of the supply well servicing the property located at 11023 Liberty Rd. (Wards Chapel Pre-School)

2.0 GROUNDWATER SAMPLING ACTIVITIES

2.1 Monitoring Well Sampling Activities

On 6/24/2022, AEC personnel arrived on site to complete the scope of work, which included the supplemental sampling of three (3) MWs.

Depth to groundwater was recorded and top of casing elevation data was collected for each MW. After gauging, the MWs were purged a total of three (3) well volumes. Purged groundwater was treated with activated carbon before being discharged to the ground. A representative groundwater sample was then collected with a disposable polyethylene bailer. No samples were collected from the tank field MPs due to each of them being dry. The MW locations are represented in Appendix A.

The groundwater samples collected from MW-1, MW-2 and MW-3R were delivered to the laboratory on ice with a chain of custody record. All MW samples collected on, site was analyzed for the presence of volatile organic compounds (VOCs) by EPA Method 8260 and total petroleum hydrocarbons–diesel range organics and gasoline range organics (TPH-DRO/GRO) by EPA method 8015B.

3.0 DOMESTIC SUPPLY WELL SAMPLING ACTIVITIES

The following table summarizes the sampling event history for 11024 and 11023 Liberty Rd. and 4507 Wards Chapel Rd.

Address	April	May	June	July
11024 Liberty Rd	4/19	5/4	6/16	7/14
11023 Liberty Rd	NS	5/9	6/24	7/14
4507 Wards Chapel Rd	4/19	5/10	6/16	7/15

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Havre De Grace, MD 21078
Charlie's Service Q2B 2022

4.0 EVALUATION AND PRESENTATION OF RESULTS

4.1 Groundwater Elevation & Flow Characteristics

AEC has created a groundwater elevation contour map based on top of casing elevation data provided by the previous consultant and recent depth to groundwater measurements collected on 06/24/2022. Relative groundwater elevation on site ranged from 559.25ft (lowest) at MW-3R to 559.47ft (highest) at MW-1.

A groundwater elevation contour map, which depicts groundwater flow to the west - southwest, can be found in Appendix A.

4.2 Monitoring Well Sampling Results

Detectable concentrations of dissolved phase petroleum hydrocarbons were observed in the groundwater samples collected.

MW-2

6/24/2022
DIPE 6.71ug/L

MW-3R

6/24/2022

TAA	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	TPH-GRO
4,120	21,120	21,360	103,600	9,200	354,700	4,120

A Quick Reference Analytical table can be found in Appendix B. A full Report of Analysis and Chain of Custody can be found in Appendix C.

4.3 Domestic Well and POET Sampling Results

Detectable concentrations of dissolved phase petroleum hydrocarbons were observed in the groundwater samples collected to include:

Sample	Date	Toluene	MTBE	TAA	TBA	DIPE	TAME
11024 Liberty Rd. New Supply Well Installed 1/20/2022	4/19/2022	<.5	1070	<10	201	16.5	20.5
	5/4/2022	<.5	3.81	<10	<10	2.61	<.5
	6/16/2022 Caliber Dup	1.6	7.5	<5	<5	2.5	<.5
	6/16/2022	1.43	5.21	<10	<10	2.07	<.5
	7/14/2022	<.5	243	<10	10.4	4.95	<.5
4507 Ward's Chapel	4/19/2022	<.5	5120	20.3	880	18.8	32.7
	5/10/2022	<.5	970	73	<5	7.6	17.5
	6/16/2022	<.5	1868	<10	201	9.16	14
	7/14/2022	<.5	1298	<10	238	8.35	12.1

A Quick Reference Analytical table can be found in Appendix B. A full Report of Analysis and Chain of Custody can be found in Appendix C.

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Havre De Grace, MD 21078
Charlie's Service Q2B 2022

4.0 FUTURE ACTIVITIES

AEC, Inc. will prepare a Potable Well Sampling Report to be submitted for the sampling of

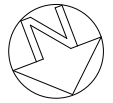
- the site's POET System
- The POET System servicing 4507 Wards Chapel Rd
- and the sampling of the supply well servicing the property located at 11023 Liberty Rd. (Wards Chapel Pre-School)

Included will be all monthly sampling results, summary data tables, and all relevant correspondence provided to the off-site property owners (laboratory results correspondence, etc.).

5.0 APPENDICES

Appendix A

Figures and Drawings



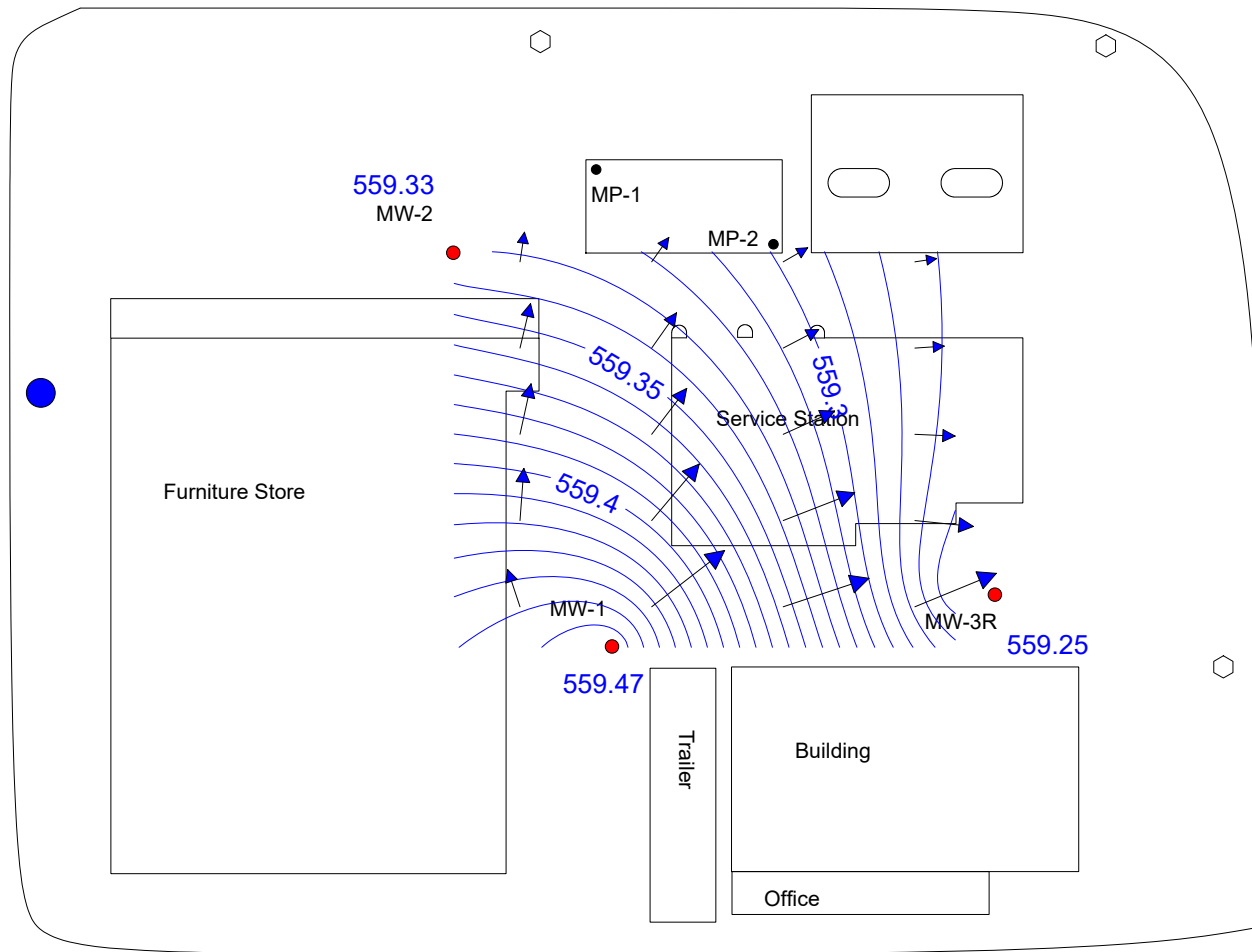
Liberty Rd

Dom Supply Well

Gravel Drive

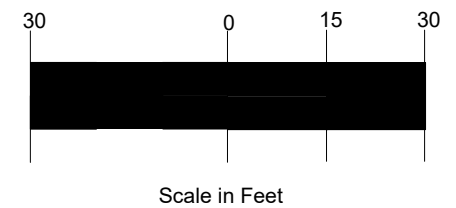
Wards Chapel Rd

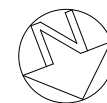
Gravel Drive



Charlies Service Station
11024 Liberty Rd. Randallstown, MD.
Groundwater Elevation Drawing
.01ft Contour Interval

Date	Q2 2022
Scale	1"=30ft
Drawing #	0532





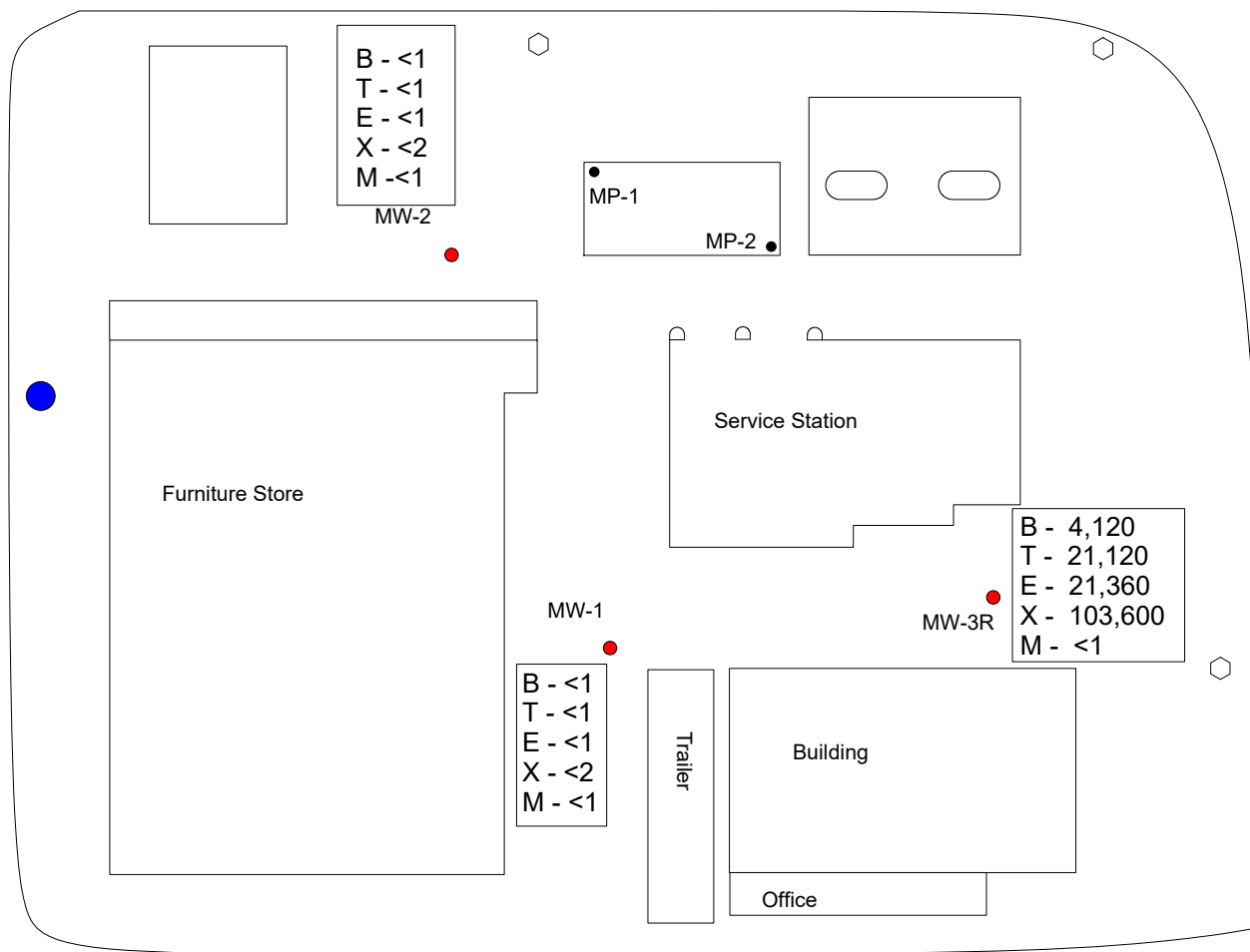
Liberty Rd

Dom Supply Well

Gravel Drive

Wards Chapel Rd

Gravel Drive



B - <1
 T - <1
 E - <1
 X - <2
 M - <1

MW-2

MP-1

MP-2

Furniture Store

Service Station

B - 4,120
 T - 21,120
 E - 21,360
 X - 103,600
 M - <1

MW-3R

MW-1

B - <1
 T - <1
 E - <1
 X - <2
 M - <1

Trailer

Building

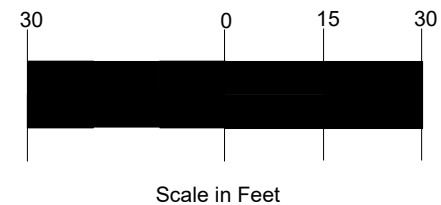
Office

B - Benzene
 T - Toluene
 E - Ethylbenzene
 X - Xylenes
 M - MTBE



Charlie's Service Station
 11024 Liberty Rd. Randallstown, MD.
 VOC Concentration Map
 4/19/2022 Sampling Event

Date	Q2B 2022
Scale	1"=30ft
Drawing #	0532



Appendix B

Tables and Charts

Charlie's Service Station
Monitoring Well Sampling Summary Table

Sample	Date	DTGW	Groundwater Elevation	TBA	MTBE	DIPE	TAME	TAA	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	TPH-GRO
MDE GNCS for Type I & II Aquifers				NG	20	NG	NG	NG	5	1000	700	10000	0.65	47
MW-3	5/31/2007	24.87	562.34	ND	ND	ND	ND	ND	238	350	771	5186	204	11650
TOC	6/15/2017	24.93	562.28											
	3/21/2008	Dry	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/26/2008	Dry	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/4/2009	Dry	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/26/2010	Dry	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/29/2011	Dry	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/30/2012	24.66	562.55	ND	ND	ND	ND	62	336	154	543	1372	186	NS
	6/14/2012	25.31	561.9	191	453	ND	ND	ND	71	33	239	520	50	3100
	9/21/2012	26.55	560.66	19	21	ND	ND	ND	46	33	117	286	29	2628
	12/21/2012	27.07	560.14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/14/2014	27.50	559.71	ND	ND	ND	ND	ND	145	82	237	487	144	NA
	3/12/2015	25.15	562.06	ND	ND	ND	ND	ND	182	45	534	752	309	4550
	11/6/2017	Dry	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/14/2018	Dry	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Abandoned													
MW-3R	4/19/2022	27.70	558.96	<25	<1	<1	<1	1,520	42,800	146,800	126,800	380,000	90,400	1,905,000
TOC	5/10/2022	28.03	558.63	<2500	<500	<500	<500	<2500	2,300	7,200	2,400	11,700	1,100	NA
586.66	6/24/2022	27.41	559.25	<25	<1	<1	<1	<25	4,120	21,120	21,360	103,600	9,200	354,700

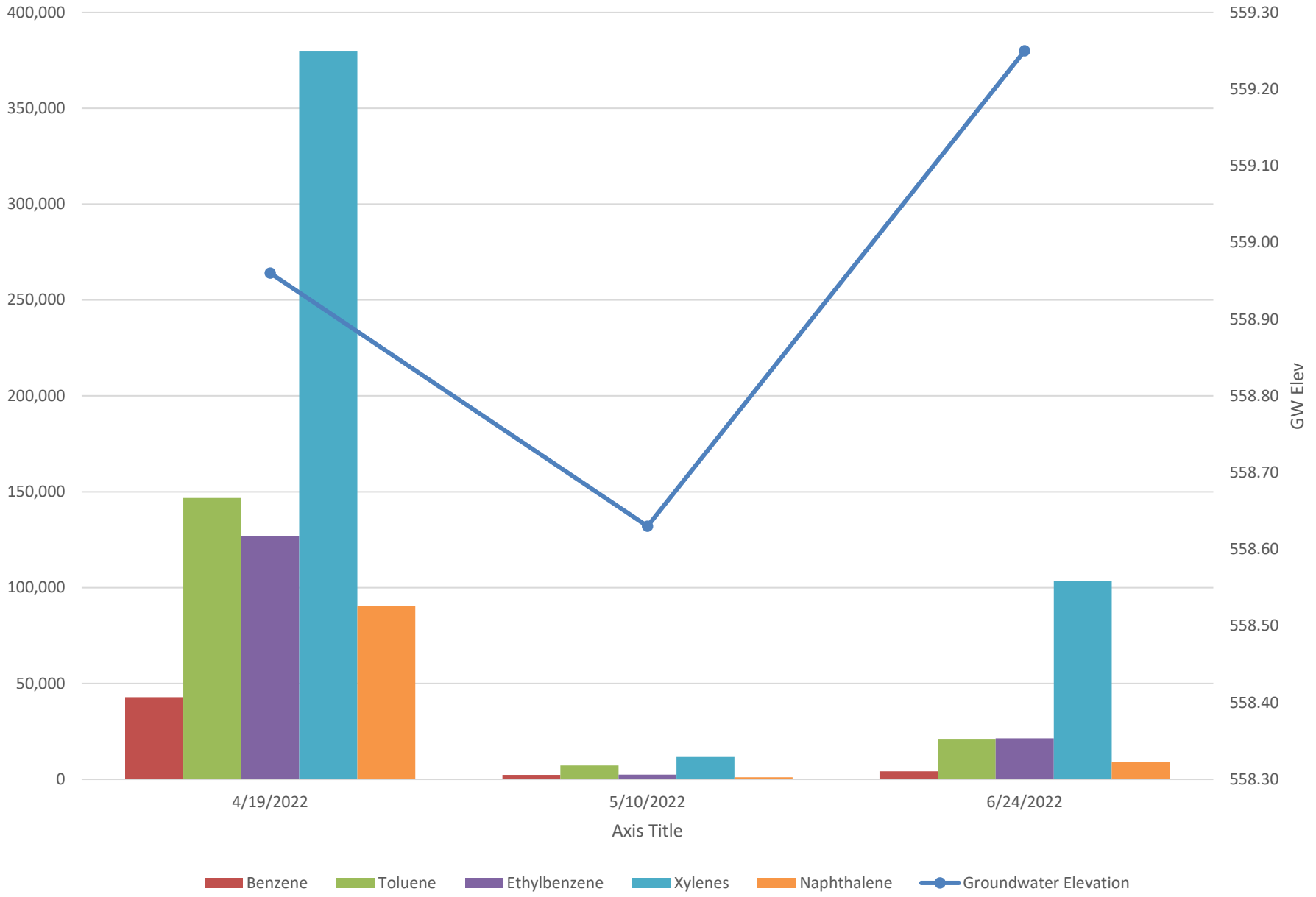
*Concentrations in ug/L

*ND - Denotes concentrations below method detectable levels

*NS - Denotes no sample taken

Values exceeding the specified MDE criteria are **bolded**.

MW-3 Concentrations and Groundwater Elevation / Time



Charlie's Service Station
Domestic Supply Well Analytical Summary Table

Sample	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	TAA	TBA	DIPE	TAME
11024 Liberty Rd.	4/19/2022	<.5	<.5	<.5	<.5	1,070	<10	201	16.5	20.5
New Supply Well Installed	5/4/2022	<.5	<.5	<.5	<.5	3.81	<10	<10	2.61	<.5
1/20/2022	6/16/2022 Caliber Dup	<.5	1.6	<.5	<.5	7.5	<5	<5	2.5	<.5
	6/16/2022	<.5	1.43	<.5	<.5	5.21	<10	<10	2.07	<.5
	7/14/2022	<.5	<.5	<.5	<.5	243	<10	10.4	4.95	<.5
11024 Liberty Rd. Int 1	7/14/2022	<.5	<.5	<.5	<.5	<.5	<10	<10	<.5	<.5
11024 Liberty Rd Eff	7/14/2022	<.5	<.5	<.5	<.5	<.5	<10	<10	<.5	<.5
11023 Liberty Road	11/6/2017	ND	ND	ND	ND	ND	ND	ND		
	2/14/2018	ND	ND	ND	ND	ND	ND	ND		
	5/9/2022	<.5	<.5	<.5	<.5	<.5	<5	<5	<.5	<.5
	6/24/2022	<.5	<.5	<.5	<.5	<.5	<10	<10	<.5	<.5
	7/14/2022	<.5	<.5	<.5	<.5	<.5	<10	<10	<.5	<.5
11100 Liberty Road	11/6/2017	ND	ND	ND	ND	ND	ND	ND		
	2/14/2018	ND	ND	ND	ND	ND	ND	ND		
11012 Liberty Road	4/19/2022	<.5	<.5	<.5	<.5	<.5	<5	<5	<.5	<.5

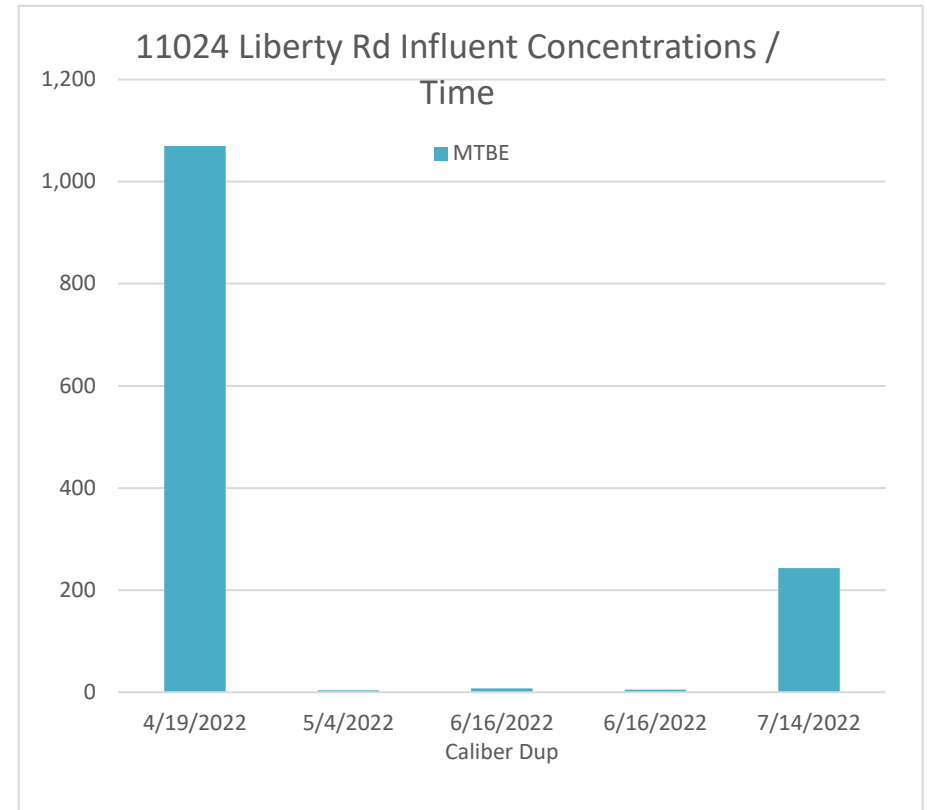
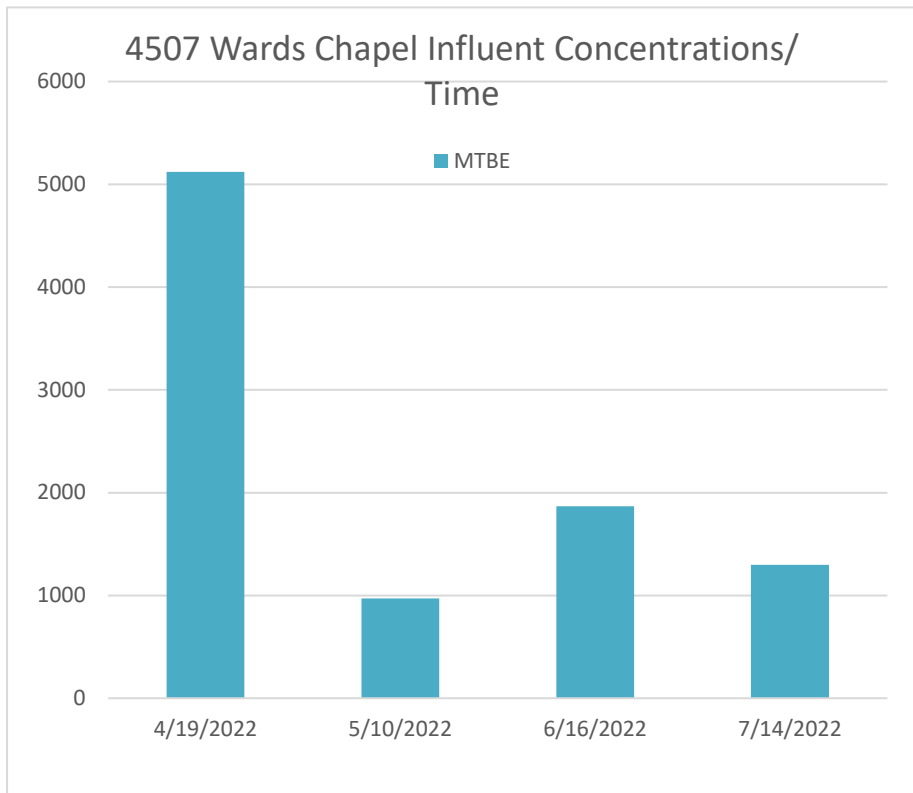
Charlie's Service Station
Domestic Supply Well Analytical Summary Table

Sample	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	TAA	TBA	DIPE	TAME
4507 Ward's Chapel	4/19/2022	<.5	<.5	<.5	<.5	5120	20.3	880	18.8	32.7
	5/10/2022	<.5	<.5	<.5	<.5	970	73	<5	7.6	17.5
	6/16/2022	<.5	<.5	<.5	<.5	1868	<10	201	9.16	14
	7/14/2022	<.5	<.5	<.5	<.5	1298	<10	238	8.35	12.1
4507 Ward's Chapel Int 1	7/14/2022	<.5	<.5	<.5	<.5	1.63	<10	11.6	<.5	<.5
4507 Ward's Chapel EFF	7/14/2022	<.5	<.5	<.5	<.5	<.5	<10	<10	<.5	<.5

*Concentrations in ug/L

*ND - Denotes concentrations below method detectable levels

*NG - No Guidance



Appendix C

Report of Analysis and Chain of Custody

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	MW-1	Project Identification:	Charles Service Station
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	4/19/2022	Client Telephone:	
Date Received:	4/19/2022	Client Fax:	
Extraction Date:	4/20/2022	Analyst:	MM
Analysis Date:	4/25/2022	Lab File:	42522A017

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	1	ug/L	ND	EPA 8260
Chloromethane	1	ug/L	ND	EPA 8260
Vinyl Chloride	1	ug/L	ND	EPA 8260
Bromomethane	1	ug/L	ND	EPA 8260
Chloroethane	1	ug/L	ND	EPA 8260
Trichlorofluoromethane	1	ug/L	ND	EPA 8260
1,1-Dichloroethene	1	ug/L	ND	EPA 8260
tert-Butyl Alcohol (TBA)	25	ug/L	ND	EPA 8260
Methylene Chloride	1	ug/L	ND	EPA 8260
trans-1,2-Dichloroethene	1	ug/L	ND	EPA 8260
Methyl tert-Butyl Ether (MtBE)	1	ug/L	ND	EPA 8260
1,1-Dichloroethane	1	ug/L	ND	EPA 8260
Diisopropyl Ether (DIPE)	1	ug/L	ND	EPA 8260
cis-1,2-Dichloroethene	1	ug/L	ND	EPA 8260
Bromochloromethane	1	ug/L	ND	EPA 8260
Chloroform	1	ug/L	ND	EPA 8260
2,2-Dichloropropane	1	ug/L	ND	EPA 8260
Ethyl tert-Butyl Ether (EtBE)	1	ug/L	ND	EPA 8260
1,2-Dichloroethane	1	ug/L	ND	EPA 8260
tert-Amyl Alcohol (TAA)	25	ug/L	ND	EPA 8260
1,1,1-Trichloroethane	1	ug/L	ND	EPA 8260
1,1-Dichloropropene	1	ug/L	ND	EPA 8260
Carbon tetrachloride	1	ug/L	ND	EPA 8260
Benzene	1	ug/L	ND	EPA 8260
tert-Amyl Methyl Ether (TAME)	1	ug/L	ND	EPA 8260
Dibromomethane	1	ug/L	ND	EPA 8260
1,2-Dichloropropane	1	ug/L	ND	EPA 8260
Trichloroethene	1	ug/L	ND	EPA 8260
Bromodichloromethane	1	ug/L	ND	EPA 8260
tert-Amyl Ethyl Ether (TAEE)	1	ug/L	ND	EPA 8260
cis-1,3-Dichloropropene	1	ug/L	ND	EPA 8260
trans-1,3-Dichloropropene	1	ug/L	ND	EPA 8260
1,1,2-Trichloroethane	1	ug/L	ND	EPA 8260
Toluene	1	ug/L	ND	EPA 8260
1,3-Dichloropropane	1	ug/L	ND	EPA 8260
Dibromochloromethane	1	ug/L	ND	EPA 8260
1,2-Dibromoethane	1	ug/L	ND	EPA 8260
Tetrachloroethene	1	ug/L	ND	EPA 8260
1,1,1,2-Tetrachloroethene	1	ug/L	ND	EPA 8260
Chlorobenzene	1	ug/L	ND	EPA 8260
Ethylbenzene	1	ug/L	ND	EPA 8260

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	MW-1	Project Identification:	Charles Service Station
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	4/19/2022	Client Telephone:	
Date Received:	4/19/2022	Client Fax:	
Extraction Date:	4/20/2022	Analyst:	MM
Analysis Date:	4/25/2022	Lab File:	42522A017

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	2	ug/L	ND	EPA 8260
Bromoform	1	ug/L	ND	EPA 8260
Styrene	1	ug/L	ND	EPA 8260
o-Xylene	1	ug/L	ND	EPA 8260
1,1,2,2-Tetrachloroethane	1	ug/L	ND	EPA 8260
1,2,3-Trichloropropane	1	ug/L	ND	EPA 8260
Isopropylbenzene	1	ug/L	ND	EPA 8260
Bromobenzene	1	ug/L	ND	EPA 8260
n-Propylbenzene	1	ug/L	ND	EPA 8260
2-Chlorotoluene	1	ug/L	ND	EPA 8260
4-Chlorotoluene	1	ug/L	ND	EPA 8260
1,3,5-Trimethylbenzene	1	ug/L	ND	EPA 8260
tert-Butylbenzene	1	ug/L	ND	EPA 8260
1,2,4-Trimethylbenzene	1	ug/L	ND	EPA 8260
sec-Butylbenzene	1	ug/L	ND	EPA 8260
1,3-Dichlorobenzene	1	ug/L	ND	EPA 8260
1,4-Dichlorobenzene	1	ug/L	ND	EPA 8260
1,2-Dichlorobenzene	1	ug/L	ND	EPA 8260
p-iso-Propyltoluene	1	ug/L	ND	EPA 8260
n-Butylbenzene	1	ug/L	ND	EPA 8260
1,2-Dibromo-3-chloropropane	1	ug/L	ND	EPA 8260
1,2,4-Trichlorobenzene	1	ug/L	ND	EPA 8260
Naphthalene	1	ug/L	ND	EPA 8260
Hexachlorobutadiene	1	ug/L	ND	EPA 8260
1,2,3-Trichlorobenzene	1	ug/L	ND	EPA 8260
TPH GRO	40	ug/L	ND	EPA 8015B
TPH DRO	40	ug/L	ND	EPA 8015B

SURROGATE SPIKE

1,2-Dichloroethane-d4	%	113	EPA 8260
Dibromofluoromethane	%	116	EPA 8260
TFT	%	127	EPA 8015B
Toluene-d8	%	89	EPA 8260
Bromofluorobenzene	%	93	EPA 8260

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	MW-2	Project Identification:	Charles Service Station
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	4/19/2022	Client Telephone:	
Date Received:	4/19/2022	Client Fax:	
Extraction Date:	4/20/2022	Analyst:	MM
Analysis Date:	4/25/2022	Lab File:	42522A018

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	1	ug/L	ND	EPA 8260
Chloromethane	1	ug/L	ND	EPA 8260
Vinyl Chloride	1	ug/L	ND	EPA 8260
Bromomethane	1	ug/L	ND	EPA 8260
Chloroethane	1	ug/L	ND	EPA 8260
Trichlorofluoromethane	1	ug/L	ND	EPA 8260
1,1-Dichloroethene	1	ug/L	ND	EPA 8260
tert-Butyl Alcohol (TBA)	25	ug/L	ND	EPA 8260
Methylene Chloride	1	ug/L	ND	EPA 8260
trans-1,2-Dichloroethene	1	ug/L	ND	EPA 8260
Methyl tert-Butyl Ether (MtBE)	1	ug/L	2.18	EPA 8260
1,1-Dichloroethane	1	ug/L	ND	EPA 8260
Diisopropyl Ether (DIPE)	1	ug/L	9.4	EPA 8260
cis-1,2-Dichloroethene	1	ug/L	ND	EPA 8260
Bromochloromethane	1	ug/L	ND	EPA 8260
Chloroform	1	ug/L	ND	EPA 8260
2,2-Dichloropropane	1	ug/L	ND	EPA 8260
Ethyl tert-Butyl Ether (EtBE)	1	ug/L	ND	EPA 8260
1,2-Dichloroethane	1	ug/L	ND	EPA 8260
tert-Amyl Alcohol (TAA)	25	ug/L	ND	EPA 8260
1,1,1-Trichloroethane	1	ug/L	ND	EPA 8260
1,1-Dichloropropene	1	ug/L	ND	EPA 8260
Carbon tetrachloride	1	ug/L	ND	EPA 8260
Benzene	1	ug/L	ND	EPA 8260
tert-Amyl Methyl Ether (TAME)	1	ug/L	ND	EPA 8260
Dibromomethane	1	ug/L	ND	EPA 8260
1,2-Dichloropropane	1	ug/L	ND	EPA 8260
Trichloroethene	1	ug/L	ND	EPA 8260
Bromodichloromethane	1	ug/L	ND	EPA 8260
tert-Amyl Ethyl Ether (TAEE)	1	ug/L	ND	EPA 8260
cis-1,3-Dichloropropene	1	ug/L	ND	EPA 8260
trans-1,3-Dichloropropene	1	ug/L	ND	EPA 8260
1,1,2-Trichloroethane	1	ug/L	ND	EPA 8260
Toluene	1	ug/L	ND	EPA 8260
1,3-Dichloropropane	1	ug/L	ND	EPA 8260
Dibromochloromethane	1	ug/L	ND	EPA 8260
1,2-Dibromoethane	1	ug/L	ND	EPA 8260
Tetrachloroethene	1	ug/L	ND	EPA 8260
1,1,1,2-Tetrachloroethene	1	ug/L	ND	EPA 8260
Chlorobenzene	1	ug/L	ND	EPA 8260
Ethylbenzene	1	ug/L	ND	EPA 8260

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	MW-2	Project Identification:	Charles Service Station
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	4/19/2022	Client Telephone:	
Date Received:	4/19/2022	Client Fax:	
Extraction Date:	4/20/2022	Analyst:	MM
Analysis Date:	4/25/2022	Lab File:	42522A018

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	2	ug/L	ND	EPA 8260
Bromoform	1	ug/L	ND	EPA 8260
Styrene	1	ug/L	ND	EPA 8260
o-Xylene	1	ug/L	ND	EPA 8260
1,1,2,2-Tetrachloroethane	1	ug/L	ND	EPA 8260
1,2,3-Trichloropropane	1	ug/L	ND	EPA 8260
Isopropylbenzene	1	ug/L	ND	EPA 8260
Bromobenzene	1	ug/L	ND	EPA 8260
n-Propylbenzene	1	ug/L	ND	EPA 8260
2-Chlorotoluene	1	ug/L	ND	EPA 8260
4-Chlorotoluene	1	ug/L	ND	EPA 8260
1,3,5-Trimethylbenzene	1	ug/L	ND	EPA 8260
tert-Butylbenzene	1	ug/L	ND	EPA 8260
1,2,4-Trimethylbenzene	1	ug/L	ND	EPA 8260
sec-Butylbenzene	1	ug/L	ND	EPA 8260
1,3-Dichlorobenzene	1	ug/L	ND	EPA 8260
1,4-Dichlorobenzene	1	ug/L	ND	EPA 8260
1,2-Dichlorobenzene	1	ug/L	ND	EPA 8260
p-iso-Propyltoluene	1	ug/L	ND	EPA 8260
n-Butylbenzene	1	ug/L	ND	EPA 8260
1,2-Dibromo-3-chloropropane	1	ug/L	ND	EPA 8260
1,2,4-Trichlorobenzene	1	ug/L	ND	EPA 8260
Naphthalene	1	ug/L	ND	EPA 8260
Hexachlorobutadiene	1	ug/L	ND	EPA 8260
1,2,3-Trichlorobenzene	1	ug/L	ND	EPA 8260
TPH GRO	40	ug/L	ND	EPA 8015B
TPH DRO	40	ug/L	ND	EPA 8015B

SURROGATE SPIKE

1,2-Dichloroethane-d4		%	117	EPA 8260
Dibromofluoromethane		%	119	EPA 8260
TFT		%	128	EPA 8015B
Toluene-d8		%	88	EPA 8260
Bromofluorobenzene		%	91	EPA 8260

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Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	MW-3	Project Identification:	Charles Service Station
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	4/19/2022	Client Telephone:	
Date Received:	4/19/2022	Client Fax:	
Extraction Date:	4/20/2022	Analyst:	MM
Analysis Date:	4/25/2022	Lab File:	42522A019

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	1	ug/L	ND	EPA 8260
Chloromethane	1	ug/L	ND	EPA 8260
Vinyl Chloride	1	ug/L	ND	EPA 8260
Bromomethane	1	ug/L	ND	EPA 8260
Chloroethane	1	ug/L	ND	EPA 8260
Trichlorofluoromethane	1	ug/L	ND	EPA 8260
1,1-Dichloroethene	1	ug/L	ND	EPA 8260
tert-Butyl Alcohol (TBA)	25	ug/L	ND	EPA 8260
Methylene Chloride	1	ug/L	ND	EPA 8260
trans-1,2-Dichloroethene	1	ug/L	ND	EPA 8260
Methyl tert-Butyl Ether (MtBE)	1	ug/L	ND	EPA 8260
1,1-Dichloroethane	1	ug/L	ND	EPA 8260
Diisopropyl Ether (DIPE)	1	ug/L	ND	EPA 8260
cis-1,2-Dichloroethene	1	ug/L	ND	EPA 8260
Bromochloromethane	1	ug/L	ND	EPA 8260
Chloroform	1	ug/L	ND	EPA 8260
2,2-Dichloropropane	1	ug/L	ND	EPA 8260
Ethyl tert-Butyl Ether (EtBE)	1	ug/L	ND	EPA 8260
1,2-Dichloroethane	1	ug/L	ND	EPA 8260
tert-Amyl Alcohol (TAA)	25	ug/L	1520	EPA 8260
1,1,1-Trichloroethane	1	ug/L	ND	EPA 8260
1,1-Dichloropropene	1	ug/L	ND	EPA 8260
Carbon tetrachloride	1	ug/L	ND	EPA 8260
Benzene	1	ug/L	42800	EPA 8260
tert-Amyl Methyl Ether (TAME)	1	ug/L	ND	EPA 8260
Dibromomethane	1	ug/L	ND	EPA 8260
1,2-Dichloropropane	1	ug/L	ND	EPA 8260
Trichloroethene	1	ug/L	ND	EPA 8260
Bromodichloromethane	1	ug/L	ND	EPA 8260
tert-Amyl Ethyl Ether (TAEE)	1	ug/L	ND	EPA 8260
cis-1,3-Dichloropropene	1	ug/L	ND	EPA 8260
trans-1,3-Dichloropropene	1	ug/L	ND	EPA 8260
1,1,2-Trichloroethane	1	ug/L	ND	EPA 8260
Toluene	1	ug/L	146800	EPA 8260
1,3-Dichloropropane	1	ug/L	ND	EPA 8260
Dibromochloromethane	1	ug/L	ND	EPA 8260
1,2-Dibromoethane	1	ug/L	ND	EPA 8260
Tetrachloroethene	1	ug/L	ND	EPA 8260
1,1,1,2-Tetrachloroethene	1	ug/L	ND	EPA 8260
Chlorobenzene	1	ug/L	ND	EPA 8260
Ethylbenzene	1	ug/L	126800	EPA 8260

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Certificate of Analysis

Sample Identification:	MW-3	Project Identification:	Charles Service Station
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	4/19/2022	Client Telephone:	
Date Received:	4/19/2022	Client Fax:	
Extraction Date:	4/20/2022	Analyst:	MM
Analysis Date:	4/25/2022	Lab File:	42522A019

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	2	ug/L	244400	EPA 8260
Bromoform	1	ug/L	ND	EPA 8260
Styrene	1	ug/L	1100	EPA 8260
o-Xylene	1	ug/L	135600	EPA 8260
1,1,2,2-Tetrachloroethane	1	ug/L	ND	EPA 8260
1,2,3-Trichloropropane	1	ug/L	ND	EPA 8260
Isopropylbenzene	1	ug/L	12920	EPA 8260
Bromobenzene	1	ug/L	ND	EPA 8260
n-Propylbenzene	1	ug/L	25200	EPA 8260
2-Chlorotoluene	1	ug/L	ND	EPA 8260
4-Chlorotoluene	1	ug/L	5840	EPA 8260
1,3,5-Trimethylbenzene	1	ug/L	68800	EPA 8260
tert-Butylbenzene	1	ug/L	ND	EPA 8260
1,2,4-Trimethylbenzene	1	ug/L	177600	EPA 8260
sec-Butylbenzene	1	ug/L	ND	EPA 8260
1,3-Dichlorobenzene	1	ug/L	ND	EPA 8260
1,4-Dichlorobenzene	1	ug/L	ND	EPA 8260
1,2-Dichlorobenzene	1	ug/L	ND	EPA 8260
p-iso-Propyltoluene	1	ug/L	1600	EPA 8260
n-Butylbenzene	1	ug/L	12400	EPA 8260
1,2-Dibromo-3-chloropropane	1	ug/L	ND	EPA 8260
1,2,4-Trichlorobenzene	1	ug/L	ND	EPA 8260
Naphthalene	1	ug/L	90400	EPA 8260
Hexachlorobutadiene	1	ug/L	ND	EPA 8260
1,2,3-Trichlorobenzene	1	ug/L	ND	EPA 8260
TPH GRO	40	ug/L	1905000	EPA 8015B
TPH DRO	40	ug/L	ND	EPA 8015B

SURROGATE SPIKE

1,2-Dichloroethane-d4	%		96	EPA 8260
Dibromofluoromethane	%		104	EPA 8260
TFT	%		125	EPA 8015B
Toluene-d8	%		84	EPA 8260
Bromofluorobenzene	%		109	EPA 8260

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Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	11024 Liberty Rd	Project Identification:	Charles Service Station
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	4/19/2022	Client Telephone:	
Date Received:	4/19/2022	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	4/27/2022	Lab File:	42722A007

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	0.5	ug/L	ND	EPA 524.2
Chloromethane	0.5	ug/L	ND	EPA 524.2
Vinyl Chloride	0.5	ug/L	ND	EPA 524.2
Bromomethane	0.5	ug/L	ND	EPA 524.2
Chloroethane	0.5	ug/L	ND	EPA 524.2
Trichlorofluoromethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloroethene	0.5	ug/L	ND	EPA 524.2
tert-Butyl Alcohol (TBA)	10	ug/L	201	EPA 524.2
Methylene Chloride	0.5	ug/L	ND	EPA 524.2
trans-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Methyl tert-Butyl Ether (MtBE)	0.5	ug/L	1070	EPA 524.2
1,1-Dichloroethane	0.5	ug/L	ND	EPA 524.2
Diisopropyl Ether (DIPE)	0.5	ug/L	16.5	EPA 524.2
cis-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Bromochloromethane	0.5	ug/L	ND	EPA 524.2
Chloroform	0.5	ug/L	ND	EPA 524.2
2,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Ethyl tert-Butyl Ether (EtBE)	0.5	ug/L	ND	EPA 524.2
1,2-Dichloroethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Alcohol (TAA)	10	ug/L	ND	EPA 524.2
1,1,1-Trichloroethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloropropene	0.5	ug/L	ND	EPA 524.2
Carbon tetrachloride	0.5	ug/L	ND	EPA 524.2
Benzene	0.5	ug/L	ND	EPA 524.2
tert-Amyl Methyl Ether (TAME)	0.5	ug/L	20.5	EPA 524.2
Dibromomethane	0.5	ug/L	ND	EPA 524.2
1,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Trichloroethene	0.5	ug/L	ND	EPA 524.2
Bromodichloromethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Ethyl Ether (TAEE)	0.5	ug/L	ND	EPA 524.2
cis-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
trans-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
1,1,2-Trichloroethane	0.5	ug/L	ND	EPA 524.2
Toluene	0.5	ug/L	2.89	EPA 524.2
1,3-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Dibromochloromethane	0.5	ug/L	ND	EPA 524.2
1,2-Dibromoethane	0.5	ug/L	ND	EPA 524.2
Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,1,1,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
Chlorobenzene	0.5	ug/L	ND	EPA 524.2
Ethylbenzene	0.5	ug/L	ND	EPA 524.2

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	11024 Liberty Rd	Project Identification:	Charles Service Station
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	4/19/2022	Client Telephone:	
Date Received:	4/19/2022	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	4/27/2022	Lab File:	42722A007

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	0.5	ug/L	ND	EPA 524.2
Bromoform	0.5	ug/L	ND	EPA 524.2
Styrene	0.5	ug/L	ND	EPA 524.2
o-Xylene	0.5	ug/L	ND	EPA 524.2
1,1,2,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichloropropane	0.5	ug/L	ND	EPA 524.2
Isopropylbenzene	0.5	ug/L	ND	EPA 524.2
Bromobenzene	0.5	ug/L	ND	EPA 524.2
n-Propylbenzene	0.5	ug/L	ND	EPA 524.2
2-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
4-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
1,3,5-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
tert-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2,4-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
sec-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,3-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,4-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
p-iso-Propyltoluene	0.5	ug/L	ND	EPA 524.2
n-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dibromo-3-chloropropane	0.5	ug/L	ND	EPA 524.2
1,2,4-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2
Naphthalene	0.5	ug/L	ND	EPA 524.2
Hexachlorobutadiene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2

SURROGATE SPIKE

1,2-Dichloroethane-d4	%	106	EPA 524.2
Dibromofluoromethane	%	106	EPA 524.2
Toluene-d8	%	89	EPA 524.2
Bromofluorobenzene	%	98	EPA 524.2

MDE Drinking Water Supply Laboratory Certification #333

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	11012 Liberty Rd	Project Identification:	Charlies Service Station
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	4/19/2022	Client Telephone:	
Date Received:	4/19/2022	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	4/27/2022	Lab File:	42722A008

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	0.5	ug/L	ND	EPA 524.2
Chloromethane	0.5	ug/L	ND	EPA 524.2
Vinyl Chloride	0.5	ug/L	ND	EPA 524.2
Bromomethane	0.5	ug/L	ND	EPA 524.2
Chloroethane	0.5	ug/L	ND	EPA 524.2
Trichlorofluoromethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloroethene	0.5	ug/L	ND	EPA 524.2
tert-Butyl Alcohol (TBA)	10	ug/L	ND	EPA 524.2
Methylene Chloride	0.5	ug/L	ND	EPA 524.2
trans-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Methyl tert-Butyl Ether (MtBE)	0.5	ug/L	ND	EPA 524.2
1,1-Dichloroethane	0.5	ug/L	ND	EPA 524.2
Diisopropyl Ether (DIPE)	0.5	ug/L	ND	EPA 524.2
cis-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Bromochloromethane	0.5	ug/L	ND	EPA 524.2
Chloroform	0.5	ug/L	ND	EPA 524.2
2,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Ethyl tert-Butyl Ether (EtBE)	0.5	ug/L	ND	EPA 524.2
1,2-Dichloroethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Alcohol (TAA)	10	ug/L	ND	EPA 524.2
1,1,1-Trichloroethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloropropene	0.5	ug/L	ND	EPA 524.2
Carbon tetrachloride	0.5	ug/L	ND	EPA 524.2
Benzene	0.5	ug/L	ND	EPA 524.2
tert-Amyl Methyl Ether (TAME)	0.5	ug/L	ND	EPA 524.2
Dibromomethane	0.5	ug/L	ND	EPA 524.2
1,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Trichloroethene	0.5	ug/L	ND	EPA 524.2
Bromodichloromethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Ethyl Ether (TAEE)	0.5	ug/L	ND	EPA 524.2
cis-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
trans-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
1,1,2-Trichloroethane	0.5	ug/L	ND	EPA 524.2
Toluene	0.5	ug/L	ND	EPA 524.2
1,3-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Dibromochloromethane	0.5	ug/L	ND	EPA 524.2
1,2-Dibromoethane	0.5	ug/L	ND	EPA 524.2
Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,1,1,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
Chlorobenzene	0.5	ug/L	ND	EPA 524.2
Ethylbenzene	0.5	ug/L	ND	EPA 524.2

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	11012 Liberty Rd	Project Identification:	Charles Service Station
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	4/19/2022	Client Telephone:	
Date Received:	4/19/2022	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	4/27/2022	Lab File:	42722A008

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	0.5	ug/L	ND	EPA 524.2
Bromoform	0.5	ug/L	ND	EPA 524.2
Styrene	0.5	ug/L	ND	EPA 524.2
o-Xylene	0.5	ug/L	ND	EPA 524.2
1,1,2,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichloropropane	0.5	ug/L	ND	EPA 524.2
Isopropylbenzene	0.5	ug/L	ND	EPA 524.2
Bromobenzene	0.5	ug/L	ND	EPA 524.2
n-Propylbenzene	0.5	ug/L	ND	EPA 524.2
2-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
4-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
1,3,5-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
tert-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2,4-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
sec-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,3-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,4-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
p-iso-Propyltoluene	0.5	ug/L	ND	EPA 524.2
n-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dibromo-3-chloropropane	0.5	ug/L	ND	EPA 524.2
1,2,4-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2
Naphthalene	0.5	ug/L	ND	EPA 524.2
Hexachlorobutadiene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2

SURROGATE SPIKE

1,2-Dichloroethane-d4	%	126	EPA 524.2
Dibromofluoromethane	%	124	EPA 524.2
Toluene-d8	%	87	EPA 524.2
Bromofluorobenzene	%	93	EPA 524.2

MDE Drinking Water Supply Laboratory Certification #333

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	4507 Wards Chapel	Project Identification:	Charles Service Station
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	4/19/2022	Client Telephone:	
Date Received:	4/19/2022	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	4/27/2022	Lab File:	42722A009

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	0.5	ug/L	ND	EPA 524.2
Chloromethane	0.5	ug/L	ND	EPA 524.2
Vinyl Chloride	0.5	ug/L	ND	EPA 524.2
Bromomethane	0.5	ug/L	ND	EPA 524.2
Chloroethane	0.5	ug/L	ND	EPA 524.2
Trichlorofluoromethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloroethene	0.5	ug/L	ND	EPA 524.2
tert-Butyl Alcohol (TBA)	10	ug/L	880	EPA 524.2
Methylene Chloride	0.5	ug/L	ND	EPA 524.2
trans-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Methyl tert-Butyl Ether (MtBE)	0.5	ug/L	5120	EPA 524.2
1,1-Dichloroethane	0.5	ug/L	ND	EPA 524.2
Diisopropyl Ether (DIPE)	0.5	ug/L	18.8	EPA 524.2
cis-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Bromochloromethane	0.5	ug/L	ND	EPA 524.2
Chloroform	0.5	ug/L	ND	EPA 524.2
2,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Ethyl tert-Butyl Ether (EtBE)	0.5	ug/L	ND	EPA 524.2
1,2-Dichloroethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Alcohol (TAA)	10	ug/L	20.3	EPA 524.2
1,1,1-Trichloroethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloropropene	0.5	ug/L	ND	EPA 524.2
Carbon tetrachloride	0.5	ug/L	ND	EPA 524.2
Benzene	0.5	ug/L	ND	EPA 524.2
tert-Amyl Methyl Ether (TAME)	0.5	ug/L	32.7	EPA 524.2
Dibromomethane	0.5	ug/L	ND	EPA 524.2
1,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Trichloroethene	0.5	ug/L	ND	EPA 524.2
Bromodichloromethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Ethyl Ether (TAEE)	0.5	ug/L	ND	EPA 524.2
cis-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
trans-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
1,1,2-Trichloroethane	0.5	ug/L	ND	EPA 524.2
Toluene	0.5	ug/L	ND	EPA 524.2
1,3-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Dibromochloromethane	0.5	ug/L	ND	EPA 524.2
1,2-Dibromoethane	0.5	ug/L	ND	EPA 524.2
Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,1,1,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
Chlorobenzene	0.5	ug/L	ND	EPA 524.2
Ethylbenzene	0.5	ug/L	ND	EPA 524.2

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	4507 Wards Chapel	Project Identification:	Charles Service Station
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	4/19/2022	Client Telephone:	
Date Received:	4/19/2022	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	4/27/2022	Lab File:	42722A009

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	0.5	ug/L	ND	EPA 524.2
Bromoform	0.5	ug/L	ND	EPA 524.2
Styrene	0.5	ug/L	ND	EPA 524.2
o-Xylene	0.5	ug/L	ND	EPA 524.2
1,1,2,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichloropropane	0.5	ug/L	ND	EPA 524.2
Isopropylbenzene	0.5	ug/L	ND	EPA 524.2
Bromobenzene	0.5	ug/L	ND	EPA 524.2
n-Propylbenzene	0.5	ug/L	ND	EPA 524.2
2-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
4-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
1,3,5-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
tert-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2,4-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
sec-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,3-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,4-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
p-iso-Propyltoluene	0.5	ug/L	ND	EPA 524.2
n-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dibromo-3-chloropropane	0.5	ug/L	ND	EPA 524.2
1,2,4-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2
Naphthalene	0.5	ug/L	ND	EPA 524.2
Hexachlorobutadiene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2

SURROGATE SPIKE

1,2-Dichloroethane-d4	%	108	EPA 524.2
Dibromofluoromethane	%	110	EPA 524.2
Toluene-d8	%	88	EPA 524.2
Bromofluorobenzene	%	92	EPA 524.2

MDE Drinking Water Supply Laboratory Certification #333

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	TRIP BLANK	Project Identification:	Charles Service Station
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	4/19/2022	Client Telephone:	
Date Received:	4/19/2022	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	4/27/2022	Lab File:	42722A006

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	0.5	ug/L	ND	EPA 524.2
Chloromethane	0.5	ug/L	ND	EPA 524.2
Vinyl Chloride	0.5	ug/L	ND	EPA 524.2
Bromomethane	0.5	ug/L	ND	EPA 524.2
Chloroethane	0.5	ug/L	ND	EPA 524.2
Trichlorofluoromethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloroethene	0.5	ug/L	ND	EPA 524.2
tert-Butyl Alcohol (TBA)	10	ug/L	ND	EPA 524.2
Methylene Chloride	0.5	ug/L	ND	EPA 524.2
trans-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Methyl tert-Butyl Ether (MtBE)	0.5	ug/L	ND	EPA 524.2
1,1-Dichloroethane	0.5	ug/L	ND	EPA 524.2
Diisopropyl Ether (DIPE)	0.5	ug/L	ND	EPA 524.2
cis-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Bromochloromethane	0.5	ug/L	ND	EPA 524.2
Chloroform	0.5	ug/L	ND	EPA 524.2
2,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Ethyl tert-Butyl Ether (EtBE)	0.5	ug/L	ND	EPA 524.2
1,2-Dichloroethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Alcohol (TAA)	10	ug/L	ND	EPA 524.2
1,1,1-Trichloroethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloropropene	0.5	ug/L	ND	EPA 524.2
Carbon tetrachloride	0.5	ug/L	ND	EPA 524.2
Benzene	0.5	ug/L	ND	EPA 524.2
tert-Amyl Methyl Ether (TAME)	0.5	ug/L	ND	EPA 524.2
Dibromomethane	0.5	ug/L	ND	EPA 524.2
1,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Trichloroethene	0.5	ug/L	ND	EPA 524.2
Bromodichloromethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Ethyl Ether (TAEE)	0.5	ug/L	ND	EPA 524.2
cis-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
trans-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
1,1,2-Trichloroethane	0.5	ug/L	ND	EPA 524.2
Toluene	0.5	ug/L	ND	EPA 524.2
1,3-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Dibromochloromethane	0.5	ug/L	ND	EPA 524.2
1,2-Dibromoethane	0.5	ug/L	ND	EPA 524.2
Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,1,1,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
Chlorobenzene	0.5	ug/L	ND	EPA 524.2
Ethylbenzene	0.5	ug/L	ND	EPA 524.2

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	TRIP BLANK	Project Identification:	Charles Service Station
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	4/19/2022	Client Telephone:	
Date Received:	4/19/2022	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	4/27/2022	Lab File:	42722A006

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	0.5	ug/L	ND	EPA 524.2
Bromoform	0.5	ug/L	ND	EPA 524.2
Styrene	0.5	ug/L	ND	EPA 524.2
o-Xylene	0.5	ug/L	ND	EPA 524.2
1,1,2,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichloropropane	0.5	ug/L	ND	EPA 524.2
Isopropylbenzene	0.5	ug/L	ND	EPA 524.2
Bromobenzene	0.5	ug/L	ND	EPA 524.2
n-Propylbenzene	0.5	ug/L	ND	EPA 524.2
2-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
4-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
1,3,5-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
tert-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2,4-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
sec-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,3-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,4-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
p-iso-Propyltoluene	0.5	ug/L	ND	EPA 524.2
n-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dibromo-3-chloropropane	0.5	ug/L	ND	EPA 524.2
1,2,4-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2
Naphthalene	0.5	ug/L	ND	EPA 524.2
Hexachlorobutadiene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2

SURROGATE SPIKE

1,2-Dichloroethane-d4	%	122	EPA 524.2
Dibromofluoromethane	%	120	EPA 524.2
Toluene-d8	%	119	EPA 524.2
Bromofluorobenzene	%	94	EPA 524.2

MDE Drinking Water Supply Laboratory Certification #333

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	STOCKPILE	Project Identification:	Charles Service Station
MATRIX:	soil	Client Identification:	CHRIS BROCATO
Sample Date:	4/19/2022	Client Telephone:	
Date Received:	4/19/2022	Client Fax:	
Extraction Date:	4/20/2022	Analyst:	MM
Analysis Date:	4/25/2022	Lab File:	42522A016

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	50	ug/Kg	ND	EPA 8260
Chloromethane	50	ug/Kg	ND	EPA 8260
Vinyl Chloride	50	ug/Kg	ND	EPA 8260
Bromomethane	50	ug/Kg	ND	EPA 8260
Chloroethane	50	ug/Kg	ND	EPA 8260
Trichlorofluoromethane	50	ug/Kg	ND	EPA 8260
1,1-Dichloroethene	50	ug/Kg	ND	EPA 8260
tert-Butyl Alcohol (TBA)	500	ug/Kg	ND	EPA 8260
Methylene Chloride	50	ug/Kg	ND	EPA 8260
trans-1,2-Dichloroethene	50	ug/Kg	ND	EPA 8260
Methyl tert-Butyl Ether (MtBE)	50	ug/Kg	ND	EPA 8260
1,1-Dichloroethane	50	ug/Kg	ND	EPA 8260
Diisopropyl Ether (DIPE)	50	ug/Kg	ND	EPA 8260
cis-1,2-Dichloroethene	50	ug/Kg	ND	EPA 8260
Bromochloromethane	50	ug/Kg	ND	EPA 8260
Chloroform	50	ug/Kg	ND	EPA 8260
2,2-Dichloropropane	50	ug/Kg	ND	EPA 8260
Ethyl tert-Butyl Ether (EtBE)	50	ug/Kg	ND	EPA 8260
1,2-Dichloroethane	50	ug/Kg	ND	EPA 8260
tert-Amyl Alcohol (TAA)	500	ug/Kg	ND	EPA 8260
1,1,1-Trichloroethane	50	ug/Kg	ND	EPA 8260
1,1-Dichloropropene	50	ug/Kg	ND	EPA 8260
Carbon tetrachloride	50	ug/Kg	ND	EPA 8260
Benzene	50	ug/Kg	ND	EPA 8260
tert-Amyl Methyl Ether (TAME)	50	ug/Kg	ND	EPA 8260
Dibromomethane	50	ug/Kg	ND	EPA 8260
1,2-Dichloropropane	50	ug/Kg	ND	EPA 8260
Trichloroethene	50	ug/Kg	ND	EPA 8260
Bromodichloromethane	50	ug/Kg	ND	EPA 8260
tert-Amyl Ethyl Ether (TAEE)	50	ug/Kg	ND	EPA 8260
cis-1,3-Dichloropropene	50	ug/Kg	ND	EPA 8260
trans-1,3-Dichloropropene	50	ug/Kg	ND	EPA 8260
1,1,2-Trichloroethane	50	ug/Kg	ND	EPA 8260
Toluene	50	ug/Kg	ND	EPA 8260
1,3-Dichloropropane	50	ug/Kg	ND	EPA 8260
Dibromochloromethane	50	ug/Kg	ND	EPA 8260
1,2-Dibromoethane	50	ug/Kg	ND	EPA 8260
Tetrachloroethene	50	ug/Kg	ND	EPA 8260
1,1,1,2-Tetrachloroethene	50	ug/Kg	ND	EPA 8260
Chlorobenzene	50	ug/Kg	ND	EPA 8260
Ethylbenzene	50	ug/Kg	ND	EPA 8260

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	STOCKPILE	Project Identification:	Charles Service Station
MATRIX:	soil	Client Identification:	CHRIS BROCATO
Sample Date:	4/19/2022	Client Telephone:	
Date Received:	4/19/2022	Client Fax:	
Extraction Date:	4/20/2022	Analyst:	MM
Analysis Date:	4/25/2022	Lab File:	42522A016

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	50	ug/Kg	122	EPA 8260
Bromoform	50	ug/Kg	ND	EPA 8260
Styrene	50	ug/Kg	ND	EPA 8260
o-Xylene	50	ug/Kg	55.4	EPA 8260
1,1,2,2-Tetrachloroethane	50	ug/Kg	ND	EPA 8260
1,2,3-Trichloropropane	50	ug/Kg	ND	EPA 8260
Isopropylbenzene	50	ug/Kg	ND	EPA 8260
Bromobenzene	50	ug/Kg	ND	EPA 8260
n-Propylbenzene	50	ug/Kg	ND	EPA 8260
2-Chlorotoluene	50	ug/Kg	ND	EPA 8260
4-Chlorotoluene	50	ug/Kg	ND	EPA 8260
1,3,5-Trimethylbenzene	50	ug/Kg	101	EPA 8260
tert-Butylbenzene	50	ug/Kg	ND	EPA 8260
1,2,4-Trimethylbenzene	50	ug/Kg	387	EPA 8260
sec-Butylbenzene	50	ug/Kg	ND	EPA 8260
1,3-Dichlorobenzene	50	ug/Kg	ND	EPA 8260
1,4-Dichlorobenzene	50	ug/Kg	ND	EPA 8260
1,2-Dichlorobenzene	50	ug/Kg	ND	EPA 8260
p-iso-Propyltoluene	50	ug/Kg	ND	EPA 8260
n-Butylbenzene	50	ug/Kg	61.6	EPA 8260
1,2-Dibromo-3-chloropropane	50	ug/Kg	ND	EPA 8260
1,2,4-Trichlorobenzene	50	ug/Kg	ND	EPA 8260
Naphthalene	50	ug/Kg	ND	EPA 8260
Hexachlorobutadiene	50	ug/Kg	ND	EPA 8260
1,2,3-Trichlorobenzene	50	ug/Kg	ND	EPA 8260
TPH GRO	100	ug/Kg	3540	EPA 8015B
TPH DRO	500	ug/Kg	ND	EPA 8015B

SURROGATE SPIKE

1,2-Dichloroethane-d4		%	105	EPA 8260
Dibromofluoromethane		%	109	EPA 8260
TFT		%	124	EPA 8015B
Toluene-d8		%	88	EPA 8260
Bromofluorobenzene		%	94	EPA 8260

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

1751-1 Pulaski Hwy., Havre de Grace, MD 21078-2207
 Phone: 410-939-5550 Fax: 410-939-5552
 www.AECEnviro.com

Chain of Custody Record

Client: Chris Brocato			Project Name: Charlie's Service Station			SDG#			
Address:			Project Location:			Preservatives			
			11024 Liberty Rd. Randallstown, MD						
Contact:			Phone: Fax:			Requested Analysis			
			Email:			TPH	VOCs		
Sample By: Greg Beal			Receive Completed Report Via (Circle One)			GRO	8260	524.2	
			U.S. Mail Email Fax			DRO			
	Sample #	Sample ID	Date	Time	Matrix	pH	8015		
1		MW-1	04/19/22		Water		X	X	
2		MW-2					X	X	
3		MW-3					X	X	
4		11024 Liberty Rd				< 2			X
5		11012 Liberty Rd				< 2			X
6		4507 Wards Chapel				< 2			X
7		Trip				< 2			X
8		Stockpile			Soil		X	X	
9									
10									
Relinquished/Received By Signature			Date	Time	Delivery Method	Lab Use Only			
Relinquished By: <i>[Signature]</i>			4/19/22			Temp of Cooler			
Received By: <i>[Signature]</i>						24°C			
Relinquished By: <i>[Signature]</i>						Ice Present (Y/N)			
Received By: <i>[Signature]</i>			4/15/22			(Y/N)			
Relinquished By: <i>[Signature]</i>						Custody Seal (Y/N)			
Received By: <i>[Signature]</i>						Date of Extraction 4/25/22			
Matrix Codes: SO = Soil, GW = Ground Water, WW = Waste Water, VP = Vapor, SL = Sludge, DW = Drinking Water, O = Other									
Special Instructions / Comments / QC Requirements:						Turn Around Time: (STD) 1 Day 2 Day 3 Day Other			

no
Chlorine

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	11024 Liberty Rd DSW	Project Identification:	Charles Service Station
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	5/4/2022	Client Telephone:	
Date Received:	5/4/2022	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	5/5/2022	Lab File:	50522B012

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	0.5	ug/L	ND	EPA 524.2
Chloromethane	0.5	ug/L	ND	EPA 524.2
Vinyl Chloride	0.5	ug/L	ND	EPA 524.2
Bromomethane	0.5	ug/L	ND	EPA 524.2
Chloroethane	0.5	ug/L	ND	EPA 524.2
Trichlorofluoromethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloroethene	0.5	ug/L	ND	EPA 524.2
tert-Butyl Alcohol (TBA)	10	ug/L	ND	EPA 524.2
Methylene Chloride	0.5	ug/L	ND	EPA 524.2
trans-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Methyl tert-Butyl Ether (MtBE)	0.5	ug/L	3.81	EPA 524.2
1,1-Dichloroethane	0.5	ug/L	ND	EPA 524.2
Diisopropyl Ether (DIPE)	0.5	ug/L	2.61	EPA 524.2
cis-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Bromochloromethane	0.5	ug/L	ND	EPA 524.2
Chloroform	0.5	ug/L	ND	EPA 524.2
2,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Ethyl tert-Butyl Ether (EtBE)	0.5	ug/L	ND	EPA 524.2
1,2-Dichloroethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Alcohol (TAA)	10	ug/L	ND	EPA 524.2
1,1,1-Trichloroethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloropropene	0.5	ug/L	ND	EPA 524.2
Carbon tetrachloride	0.5	ug/L	ND	EPA 524.2
Benzene	0.5	ug/L	ND	EPA 524.2
tert-Amyl Methyl Ether (TAME)	0.5	ug/L	ND	EPA 524.2
Dibromomethane	0.5	ug/L	ND	EPA 524.2
1,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Trichloroethene	0.5	ug/L	ND	EPA 524.2
Bromodichloromethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Ethyl Ether (TAEE)	0.5	ug/L	ND	EPA 524.2
cis-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
trans-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
1,1,2-Trichloroethane	0.5	ug/L	ND	EPA 524.2
Toluene	0.5	ug/L	ND	EPA 524.2
1,3-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Dibromochloromethane	0.5	ug/L	ND	EPA 524.2
1,2-Dibromoethane	0.5	ug/L	ND	EPA 524.2
Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,1,1,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
Chlorobenzene	0.5	ug/L	ND	EPA 524.2
Ethylbenzene	0.5	ug/L	ND	EPA 524.2

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	11024 Liberty Rd DSW	Project Identification:	Charlies Service Station
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	5/4/2022	Client Telephone:	
Date Received:	5/4/2022	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	5/5/2022	Lab File:	50522B012

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	0.5	ug/L	ND	EPA 524.2
Bromoform	0.5	ug/L	ND	EPA 524.2
Styrene	0.5	ug/L	ND	EPA 524.2
o-Xylene	0.5	ug/L	ND	EPA 524.2
1,1,2,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichloropropane	0.5	ug/L	ND	EPA 524.2
Isopropylbenzene	0.5	ug/L	ND	EPA 524.2
Bromobenzene	0.5	ug/L	ND	EPA 524.2
n-Propylbenzene	0.5	ug/L	ND	EPA 524.2
2-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
4-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
1,3,5-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
tert-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2,4-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
sec-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,3-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,4-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
p-iso-Propyltoluene	0.5	ug/L	ND	EPA 524.2
n-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dibromo-3-chloropropane	0.5	ug/L	ND	EPA 524.2
1,2,4-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2
Naphthalene	0.5	ug/L	ND	EPA 524.2
Hexachlorobutadiene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2

SURROGATE SPIKE

1,2-Dichloroethane-d4	%	122	EPA 524.2
Dibromofluoromethane	%	121	EPA 524.2
Toluene-d8	%	85	EPA 524.2
Bromofluorobenzene	%	93	EPA 524.2

MDE Drinking Water Supply Laboratory Certification #333


ADVANCED ENVIRONMENTAL CONCEPTS, INC.

1751-1 Pulaski Hwy., Havre de Grace, MD 21078-2207

Phone: 410-939-5550 Fax: 410-939-5552

www.AECEnviro.com

Chain of Custody Record

Client: <u>Chris Brocato</u>		Project Name: <u>CHARLES SERVICE STATION</u>				SDG# <u>1</u>																						
Address:		Project Location: <u>11024 RD Liberty Rd</u>				Preservatives																						
		Phone:		Fax:		Requested Analysis																						
Contact:		Email:				<table border="1"> <tr> <td rowspan="2" style="vertical-align: middle;">A 5242</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>				A 5242																		
A 5242																												
Sample By:		Receive Completed Report Via (Circle One) U.S. Mail Email Fax				Observation No CHLORINE																						
	Sample #	Sample ID	Date	Time	Matrix					pH																		
	1	11024 DSU	5/4/22		DW					7.2																		
	2																											
	3																											
	4																											
	5																											
	6																											
	7																											
	8																											
	9																											
	10																											
Relinquished/Received By Signature			Date	Time	Delivery Method		Lab Use Only																					
Relinquished By:							Temp of Cooler																					
Received By: 			5/4/22				24°C																					
Relinquished By:							Ice Present (Y/N)																					
Received By:																												
Relinquished By:							Custody Seal (Y/N)																					
Received By:							Date of Extraction																					
							7/19																					
Matrix Codes: SO = Soil, GW = Ground Water, WW = Waste Water, VP = Vapor, SL = Sludge, DW = Drinking Water, O = Other																												
Special Instructions / Comments / QC Requirements:							Turn Around Time: STD 1 Day 2 Day 3 Day Other																					



CALIBER ANALYTICAL SERVICES

Certificate of Analysis

Advanced Environmental Concepts
1751 Pulaski Highway
Havre de Grace, MD 21078

Date Received: 05/10/22 12:20
Date Issued: 05/11/22 15:46
Matrix: Drinking Water

Project: Charles Service Station
Site Location: 11024 Liberty Rd

SDG Number: 22051007

	Result	Unit	LLQ	MCL	Method	Prepared	Analyzed	Init.
Field Sample ID: 11023 Liberty						Date Sampled: 05/09/22 14:22	Lab ID: 22051007-01	
Volatile Organic Compounds								Batch: 26484
Benzene	ND	ug/L	0.5	5	EPA 524.2	05/10/22	05/10/22 21:53	GFH
Bromobenzene	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 21:53	GFH
Bromochloromethane	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 21:53	GFH
Bromodichloromethane	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 21:53	GFH
Bromoform	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 21:53	GFH
Bromomethane	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 21:53	GFH
n-Butylbenzene	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 21:53	GFH
sec-Butylbenzene	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 21:53	GFH
tert-Butylbenzene	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 21:53	GFH
Carbon tetrachloride	ND	ug/L	0.5	5	EPA 524.2	05/10/22	05/10/22 21:53	GFH
Chlorobenzene	ND	ug/L	0.5	100	EPA 524.2	05/10/22	05/10/22 21:53	GFH
Chloroethane	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 21:53	GFH
Chloroform	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 21:53	GFH
Chloromethane	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 21:53	GFH
2-Chlorotoluene	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 21:53	GFH
4-Chlorotoluene	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 21:53	GFH
Dibromochloromethane	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 21:53	GFH
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 21:53	GFH
1,2-Dibromoethane (EDB)	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 21:53	GFH
Dibromomethane	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 21:53	GFH
1,2-Dichlorobenzene	ND	ug/L	0.5	600	EPA 524.2	05/10/22	05/10/22 21:53	GFH
1,3-Dichlorobenzene	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 21:53	GFH
1,4-Dichlorobenzene	ND	ug/L	0.5	75	EPA 524.2	05/10/22	05/10/22 21:53	GFH
Dichlorodifluoromethane	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 21:53	GFH
1,1-Dichloroethane	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 21:53	GFH
1,2-Dichloroethane (EDC)	ND	ug/L	0.5	5	EPA 524.2	05/10/22	05/10/22 21:53	GFH
1,1-Dichloroethene	ND	ug/L	0.5	7	EPA 524.2	05/10/22	05/10/22 21:53	GFH
cis-1,2-Dichloroethene	ND	ug/L	0.5	70	EPA 524.2	05/10/22	05/10/22 21:53	GFH
trans-1,2-Dichloroethene	ND	ug/L	0.5	100	EPA 524.2	05/10/22	05/10/22 21:53	GFH
1,2-Dichloropropane	ND	ug/L	0.5	5	EPA 524.2	05/10/22	05/10/22 21:53	GFH
1,3-Dichloropropane	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 21:53	GFH
2,2-Dichloropropane	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 21:53	GFH
1,1-Dichloropropene	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 21:53	GFH
cis-1,3-Dichloropropene	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 21:53	GFH
trans-1,3-Dichloropropene	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 21:53	GFH
Ethylbenzene	ND	ug/L	0.5	700	EPA 524.2	05/10/22	05/10/22 21:53	GFH
Isopropylbenzene	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 21:53	GFH
p-Isopropyltoluene	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 21:53	GFH
Hexachlorobutadiene	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 21:53	GFH
Methylene chloride	ND	ug/L	0.5	5	EPA 524.2	05/10/22	05/10/22 21:53	GFH
Methyl t-butyl ether (MTBE)	ND	ug/L	0.5	* 20	EPA 524.2	05/10/22	05/10/22 21:53	GFH
Naphthalene	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 21:53	GFH



CALIBER ANALYTICAL SERVICES

Certificate of Analysis

Advanced Environmental Concepts
1751 Pulaski Highway
Havre de Grace, MD 21078

Date Received: 05/10/22 12:20
Date Issued: 05/11/22 15:46
Matrix: Drinking Water

Project: Charles Service Station
Site Location: 11024 Liberty Rd

SDG Number: 22051007

	Result	Unit	LLQ	MCL	Method	Prepared	Analyzed	Init.
Field Sample ID: 11023 Liberty						Date Sampled: 05/09/22 14:22	Lab ID: 22051007-01	
Volatile Organic Compounds								Batch: 26484
n-Propylbenzene	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 21:53	GFH
Styrene	ND	ug/L	0.5	100	EPA 524.2	05/10/22	05/10/22 21:53	GFH
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 21:53	GFH
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 21:53	GFH
Tetrachloroethene	ND	ug/L	0.5	5	EPA 524.2	05/10/22	05/10/22 21:53	GFH
Toluene	ND	ug/L	0.5	1000	EPA 524.2	05/10/22	05/10/22 21:53	GFH
1,2,3-Trichlorobenzene	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 21:53	GFH
1,2,4-Trichlorobenzene	ND	ug/L	0.5	70	EPA 524.2	05/10/22	05/10/22 21:53	GFH
1,1,1-Trichloroethane	ND	ug/L	0.5	200	EPA 524.2	05/10/22	05/10/22 21:53	GFH
1,1,2-Trichloroethane	ND	ug/L	0.5	5	EPA 524.2	05/10/22	05/10/22 21:53	GFH
Trichloroethene	ND	ug/L	0.5	5	EPA 524.2	05/10/22	05/10/22 21:53	GFH
Trichlorofluoromethane	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 21:53	GFH
1,2,3-Trichloropropane	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 21:53	GFH
1,2,4-Trimethylbenzene	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 21:53	GFH
1,3,5-Trimethylbenzene	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 21:53	GFH
Vinyl chloride	ND	ug/L	0.5	2	EPA 524.2	05/10/22	05/10/22 21:53	GFH
m&p-Xylene	ND	ug/L	1	7500	EPA 524.2	05/10/22	05/10/22 21:53	GFH
o-Xylene	ND	ug/L	0.5	2500	EPA 524.2	05/10/22	05/10/22 21:53	GFH
tert-Butanol (TBA)	ND	ug/L	5		EPA 524.2	05/10/22	05/10/22 21:53	GFH
Ethyl t-butyl ether (ETBE)	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 21:53	GFH
Diisopropyl ether (DIPE)	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 21:53	GFH
tert-Amyl methyl ether (TAME)	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 21:53	GFH
tert-Amyl alcohol (TAA)	ND	ug/L	5		EPA 524.2	05/10/22	05/10/22 21:53	GFH
tert-Amyl ethyl ether (TAE)	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 21:53	GFH

Approved by:

QC Chemist

Notes/Qualifiers:

LLQ- Lowest Level of Quantitation

MCL - Maximum Contaminant Level. The highest level of a contaminant that is allowed in drinking water. MCLs are associated with regulated analytes. They are enforceable standards.

ND - Not Detected at a concentration greater than or equal to the LLQ.

The above analyses performed by Maryland State Certified Water Quality Laboratory #320.

* - Methyl t-butyl ether (MTBE) MCL based on MDE guidance document. It is not federally promulgated or enforceable.



CALIBER ANALYTICAL SERVICES

Certificate of Analysis

Advanced Environmental Concepts
1751 Pulaski Highway
Havre de Grace, MD 21078

Date Received: 05/10/22 12:20
Date Issued: 05/11/22 15:46
Matrix: Drinking Water

Project: Charles Service Station
Site Location: 11024 Liberty Rd

SDG Number: 22051007

	Result	Unit	LLQ	MCL	Method	Prepared	Analyzed	Init.
Field Sample ID:	4507 Wards Chapel			Date Sampled:	05/10/22 11:00		Lab ID: 22051007-02	
Volatile Organic Compounds								Batch: 26484
Benzene	ND	ug/L	0.5	5	EPA 524.2	05/10/22	05/10/22 22:23	GFH
Bromobenzene	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 22:23	GFH
Bromochloromethane	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 22:23	GFH
Bromodichloromethane	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 22:23	GFH
Bromoform	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 22:23	GFH
Bromomethane	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 22:23	GFH
n-Butylbenzene	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 22:23	GFH
sec-Butylbenzene	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 22:23	GFH
tert-Butylbenzene	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 22:23	GFH
Carbon tetrachloride	ND	ug/L	0.5	5	EPA 524.2	05/10/22	05/10/22 22:23	GFH
Chlorobenzene	ND	ug/L	0.5	100	EPA 524.2	05/10/22	05/10/22 22:23	GFH
Chloroethane	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 22:23	GFH
Chloroform	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 22:23	GFH
Chloromethane	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 22:23	GFH
2-Chlorotoluene	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 22:23	GFH
4-Chlorotoluene	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 22:23	GFH
Dibromochloromethane	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 22:23	GFH
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 22:23	GFH
1,2-Dibromoethane (EDB)	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 22:23	GFH
Dibromomethane	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 22:23	GFH
1,2-Dichlorobenzene	ND	ug/L	0.5	600	EPA 524.2	05/10/22	05/10/22 22:23	GFH
1,3-Dichlorobenzene	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 22:23	GFH
1,4-Dichlorobenzene	ND	ug/L	0.5	75	EPA 524.2	05/10/22	05/10/22 22:23	GFH
Dichlorodifluoromethane	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 22:23	GFH
1,1-Dichloroethane	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 22:23	GFH
1,2-Dichloroethane (EDC)	ND	ug/L	0.5	5	EPA 524.2	05/10/22	05/10/22 22:23	GFH
1,1-Dichloroethene	ND	ug/L	0.5	7	EPA 524.2	05/10/22	05/10/22 22:23	GFH
cis-1,2-Dichloroethene	ND	ug/L	0.5	70	EPA 524.2	05/10/22	05/10/22 22:23	GFH
trans-1,2-Dichloroethene	ND	ug/L	0.5	100	EPA 524.2	05/10/22	05/10/22 22:23	GFH
1,2-Dichloropropane	ND	ug/L	0.5	5	EPA 524.2	05/10/22	05/10/22 22:23	GFH
1,3-Dichloropropane	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 22:23	GFH
2,2-Dichloropropane	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 22:23	GFH
1,1-Dichloropropene	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 22:23	GFH
cis-1,3-Dichloropropene	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 22:23	GFH
trans-1,3-Dichloropropene	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 22:23	GFH
Ethylbenzene	ND	ug/L	0.5	700	EPA 524.2	05/10/22	05/10/22 22:23	GFH
Isopropylbenzene	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 22:23	GFH
p-Isopropyltoluene	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 22:23	GFH
Hexachlorobutadiene	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 22:23	GFH
Methylene chloride	ND	ug/L	0.5	5	EPA 524.2	05/10/22	05/10/22 22:23	GFH
Methyl t-butyl ether (MTBE)	970	ug/L	25	* 20	EPA 524.2	05/10/22	05/11/22 9:02	GFH
Naphthalene	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 22:23	GFH



CALIBER ANALYTICAL SERVICES

Certificate of Analysis

Advanced Environmental Concepts
1751 Pulaski Highway
Havre de Grace, MD 21078

Date Received: 05/10/22 12:20
Date Issued: 05/11/22 15:46
Matrix: Drinking Water

Project: Charles Service Station
Site Location: 11024 Liberty Rd

SDG Number: 22051007

	Result	Unit	LLQ	MCL	Method	Prepared	Analyzed	Init.
Field Sample ID:	4507 Wards Chapel					Date Sampled: 05/10/22 11:00	Lab ID: 22051007-02	
Volatile Organic Compounds								Batch: 26484
n-Propylbenzene	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 22:23	GFH
Styrene	ND	ug/L	0.5	100	EPA 524.2	05/10/22	05/10/22 22:23	GFH
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 22:23	GFH
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 22:23	GFH
Tetrachloroethene	ND	ug/L	0.5	5	EPA 524.2	05/10/22	05/10/22 22:23	GFH
Toluene	ND	ug/L	0.5	1000	EPA 524.2	05/10/22	05/10/22 22:23	GFH
1,2,3-Trichlorobenzene	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 22:23	GFH
1,2,4-Trichlorobenzene	ND	ug/L	0.5	70	EPA 524.2	05/10/22	05/10/22 22:23	GFH
1,1,1-Trichloroethane	ND	ug/L	0.5	200	EPA 524.2	05/10/22	05/10/22 22:23	GFH
1,1,2-Trichloroethane	ND	ug/L	0.5	5	EPA 524.2	05/10/22	05/10/22 22:23	GFH
Trichloroethene	ND	ug/L	0.5	5	EPA 524.2	05/10/22	05/10/22 22:23	GFH
Trichlorofluoromethane	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 22:23	GFH
1,2,3-Trichloropropane	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 22:23	GFH
1,2,4-Trimethylbenzene	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 22:23	GFH
1,3,5-Trimethylbenzene	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 22:23	GFH
Vinyl chloride	ND	ug/L	0.5	2	EPA 524.2	05/10/22	05/10/22 22:23	GFH
m&p-Xylene	ND	ug/L	1	7500	EPA 524.2	05/10/22	05/10/22 22:23	GFH
o-Xylene	ND	ug/L	0.5	2500	EPA 524.2	05/10/22	05/10/22 22:23	GFH
tert-Butanol (TBA)	ND	ug/L	5		EPA 524.2	05/10/22	05/10/22 22:23	GFH
Ethyl t-butyl ether (ETBE)	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 22:23	GFH
Diisopropyl ether (DIPE)	7.6	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 22:23	GFH
tert-Amyl methyl ether (TAME)	17.5	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 22:23	GFH
tert-Amyl alcohol (TAA)	73.0	ug/L	5		EPA 524.2	05/10/22	05/10/22 22:23	GFH
tert-Amyl ethyl ether (TAEE)	ND	ug/L	0.5		EPA 524.2	05/10/22	05/10/22 22:23	GFH

Approved by:

QC Chemist

Notes/Qualifiers:

LLQ- Lowest Level of Quantitation

MCL - Maximum Contaminant Level. The highest level of a contaminant that is allowed in drinking water. MCLs are associated with regulated analytes. They are enforceable standards.

ND - Not Detected at a concentration greater than or equal to the LLQ.

The above analyses performed by Maryland State Certified Water Quality Laboratory #320.

* - Methyl t-butyl ether (MTBE) MCL based on MDE guidance document. It is not federally promulgated or enforceable.



CALIBER ANALYTICAL SERVICES

Certificate of Analysis

Advanced Environmental Concepts
1751 Pulaski Highway
Havre de Grace, MD 21078

Date Sampled: 05/10/22 10:50
Date Received: 05/10/22 12:20
Date Issued: 05/11/22

Project: Charles Service Station
Site Location: 11024 Liberty Rd

SDG Number: 22051007

Field Sample ID: MW-3A Matrix: Water Lab ID: 22051007-03

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Target Compound List - VOLATILES							
							Batch: 26488
Dichlorodifluoromethane	ND	ug/L	500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
Chloromethane	ND	ug/L	500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
Vinyl chloride	ND	ug/L	100	EPA 8260B	05/11/22	05/11/22 13:12	GFH
Bromomethane	ND	ug/L	500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
Chloroethane	ND	ug/L	500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
Trichlorofluoromethane	ND	ug/L	500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
1,1-Dichloroethene	ND	ug/L	500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
1,1,2-Trichlorotrifluoroethane	ND	ug/L	500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
Acetone	ND	ug/L	2500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
Carbon disulfide	ND	ug/L	500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
Methyl acetate	ND	ug/L	500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
Methylene chloride	ND	ug/L	1000	EPA 8260B	05/11/22	05/11/22 13:12	GFH
trans-1,2-Dichloroethene	ND	ug/L	500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
Methyl t-butyl ether (MTBE)	ND	ug/L	500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
1,1-Dichloroethane	ND	ug/L	500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
cis-1,2-Dichloroethene	ND	ug/L	500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
2-Butanone (MEK)	ND	ug/L	2500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
Chloroform	ND	ug/L	500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
1,1,1-Trichloroethane	ND	ug/L	500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
Cyclohexane	1,400	ug/L	500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
Carbon tetrachloride	ND	ug/L	500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
Benzene	2,300	ug/L	100	EPA 8260B	05/11/22	05/11/22 13:12	GFH
1,2-Dichloroethane (EDC)	ND	ug/L	500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
Trichloroethene	ND	ug/L	500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
Methylcyclohexane	1,300	ug/L	500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
1,2-Dichloropropane	ND	ug/L	500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
Bromodichloromethane	ND	ug/L	500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
cis-1,3-Dichloropropene	ND	ug/L	500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
Toluene	7,200	ug/L	100	EPA 8260B	05/11/22	05/11/22 13:12	GFH
trans-1,3-Dichloropropene	ND	ug/L	500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
1,1,2-Trichloroethane	ND	ug/L	500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
Tetrachloroethene	ND	ug/L	500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
2-Hexanone (MBK)	ND	ug/L	2500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
Dibromochloromethane	ND	ug/L	500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
1,2-Dibromoethane (EDB)	ND	ug/L	500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
Chlorobenzene	ND	ug/L	500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
Ethylbenzene	2,400	ug/L	100	EPA 8260B	05/11/22	05/11/22 13:12	GFH
m&p-Xylene	8,000	ug/L	500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
o-Xylene	3,700	ug/L	500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
Styrene	ND	ug/L	500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
Bromoform	ND	ug/L	500	EPA 8260B	05/11/22	05/11/22 13:12	GFH



CALIBER ANALYTICAL SERVICES

Certificate of Analysis

Advanced Environmental Concepts
1751 Pulaski Highway
Havre de Grace, MD 21078

Date Sampled: 05/10/22 10:50
Date Received: 05/10/22 12:20
Date Issued: 05/11/22

Project: Charles Service Station
Site Location: 11024 Liberty Rd

SDG Number: 22051007

Field Sample ID:	MW-3A	Matrix:	Water	Lab ID:	22051007-03		
	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Target Compound List - VOLATILES							
							Batch: 26488
Isopropylbenzene	ND	ug/L	500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
1,1,2,2-Tetrachloroethane	ND	ug/L	500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
1,3,5-Trimethylbenzene	620	ug/L	500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
1,2,4-Trimethylbenzene	2,000	ug/L	500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
1,3-Dichlorobenzene	ND	ug/L	500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
1,4-Dichlorobenzene	ND	ug/L	500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
1,2-Dichlorobenzene	ND	ug/L	500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
1,2,4-Trichlorobenzene	ND	ug/L	500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
Naphthalene	1,100	ug/L	1000	EPA 8260B	05/11/22	05/11/22 13:12	GFH
Ethyl t-butyl ether (ETBE)	ND	ug/L	2500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
tert-Butanol (TBA)	ND	ug/L	2500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
Diisopropyl ether (DIPE)	ND	ug/L	2500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
tert-Amyl methyl ether (TAME)	ND	ug/L	2500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
tert-Amyl alcohol (TAA)	ND	ug/L	2500	EPA 8260B	05/11/22	05/11/22 13:12	GFH
tert-Amyl ethyl ether (TAEE)	ND	ug/L	2500	EPA 8260B	05/11/22	05/11/22 13:12	GFH

Notes/Qualifiers:

LLQ- Lowest Level of Quantitation

ND - Not Detected at a concentration greater than or equal to the LLQ.

* - Methyl t-butyl ether (MTBE) MCL based on MDE guidance document. It is not federally promulgated or enforceable.

Approved by:

QC Chemist

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

1751-1 Pulaski Hwy., Havre de Grace, MD 21078-2207
 Phone: 410-939-5550 Fax: 410-939-5552
 www.AECEnviro.com

Chain of Custody Record

Client: <u>Chris BRACATO</u>		Project Name: <u>CHARLES SERVICE STATION</u>				SDG# <u>22051007</u>					
Address:		Project Location: <u>11024 Liberty Rd</u>				Preservatives					
		Phone:		Fax:							
Contact:		Email:				Requested Analysis				Observation	
Sample By:		Receive Completed Report Via (Circle One) U.S. Mail Email Fax									
	Sample #	Sample ID	Date	Time	Matrix	pH					
1		<u>11023 Liberty</u>	<u>5/9/22</u>	<u>2:22</u>	<u>H₂O</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
2		<u>4507 Wmms Chapel</u>	<u>5/10/22</u>	<u>11:00</u>	<u>↓</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
3		<u>MW-3A</u>	<u>5/10/22</u>	<u>10:50</u>	<u>↓</u>			<input checked="" type="checkbox"/>			
4											
5											
6											
7											
8											
9											
10											
Relinquished/Received By Signature			Date	Time	Delivery Method		Lab Use Only				
Relinquished By: <u>[Signature]</u>							Temp of Cooler				
Received By: <u>[Signature]</u>							Ice Present <input checked="" type="checkbox"/> (Y/N)				
Relinquished By: <u>[Signature]</u>							Custody Seal (Y/N)				
Received By: <u>[Signature]</u>			<u>5/10/22</u>	<u>12:20</u>			Date of Extraction				
Relinquished By:							Matrix Codes: SO = Soil, GW = Ground Water, WW = Waste Water, VP = Vapor, SL = Sludge, DW = Drinking Water, O = Other				
Received By:							24 hr Results by 5/11				
Special Instructions / Comments / QC Requirements:							Turn Around Time: STD <input checked="" type="checkbox"/> 1 Day 2 Day 3 Day Other				

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	11024 Liberty INF	Project Identification:	CHARLIES SERVICE
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	6/16/2022	Client Telephone:	
Date Received:	6/16/2022	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	6/20/2022	Lab File:	62022A020

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	0.5	ug/L	ND	EPA 524.2
Chloromethane	0.5	ug/L	ND	EPA 524.2
Vinyl Chloride	0.5	ug/L	ND	EPA 524.2
Bromomethane	0.5	ug/L	ND	EPA 524.2
Chloroethane	0.5	ug/L	ND	EPA 524.2
Trichlorofluoromethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloroethene	0.5	ug/L	ND	EPA 524.2
tert-Butyl Alcohol (TBA)	10	ug/L	ND	EPA 524.2
Methylene Chloride	0.5	ug/L	ND	EPA 524.2
trans-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Methyl tert-Butyl Ether (MtBE)	0.5	ug/L	5.21	EPA 524.2
1,1-Dichloroethane	0.5	ug/L	ND	EPA 524.2
Diisopropyl Ether (DIPE)	0.5	ug/L	2.07	EPA 524.2
cis-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Bromochloromethane	0.5	ug/L	ND	EPA 524.2
Chloroform	0.5	ug/L	ND	EPA 524.2
2,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Ethyl tert-Butyl Ether (EtBE)	0.5	ug/L	ND	EPA 524.2
1,2-Dichloroethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Alcohol (TAA)	10	ug/L	ND	EPA 524.2
1,1,1-Trichloroethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloropropene	0.5	ug/L	ND	EPA 524.2
Carbon tetrachloride	0.5	ug/L	ND	EPA 524.2
Benzene	0.5	ug/L	ND	EPA 524.2
tert-Amyl Methyl Ether (TAME)	0.5	ug/L	ND	EPA 524.2
Dibromomethane	0.5	ug/L	ND	EPA 524.2
1,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Trichloroethene	0.5	ug/L	ND	EPA 524.2
Bromodichloromethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Ethyl Ether (TAEE)	0.5	ug/L	ND	EPA 524.2
cis-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
trans-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
1,1,2-Trichloroethane	0.5	ug/L	ND	EPA 524.2
Toluene	0.5	ug/L	1.43	EPA 524.2
1,3-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Dibromochloromethane	0.5	ug/L	ND	EPA 524.2
1,2-Dibromoethane	0.5	ug/L	ND	EPA 524.2
Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,1,1,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
Chlorobenzene	0.5	ug/L	ND	EPA 524.2
Ethylbenzene	0.5	ug/L	ND	EPA 524.2

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	11024 Liberty INF	Project Identification:	CHARLIES SERVICE
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	6/16/2022	Client Telephone:	
Date Received:	6/16/2022	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	6/20/2022	Lab File:	62022A020

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	0.5	ug/L	ND	EPA 524.2
Bromoform	0.5	ug/L	ND	EPA 524.2
Styrene	0.5	ug/L	ND	EPA 524.2
o-Xylene	0.5	ug/L	ND	EPA 524.2
1,1,2,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichloropropane	0.5	ug/L	ND	EPA 524.2
Isopropylbenzene	0.5	ug/L	ND	EPA 524.2
Bromobenzene	0.5	ug/L	ND	EPA 524.2
n-Propylbenzene	0.5	ug/L	ND	EPA 524.2
2-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
4-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
1,3,5-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
tert-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2,4-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
sec-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,3-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,4-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
p-iso-Propyltoluene	0.5	ug/L	ND	EPA 524.2
n-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dibromo-3-chloropropane	0.5	ug/L	ND	EPA 524.2
1,2,4-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2
Naphthalene	0.5	ug/L	ND	EPA 524.2
Hexachlorobutadiene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2

SURROGATE SPIKE

1,2-Dichloroethane-d4	%	107	EPA 524.2
Dibromofluoromethane	%	100	EPA 524.2
Toluene-d8	%	97	EPA 524.2
Bromofluorobenzene	%	90	EPA 524.2

MDE Drinking Water Supply Laboratory Certification #333

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	11024 Liberty MID	Project Identification:	CHARLIES SERVICE
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	6/16/2022	Client Telephone:	
Date Received:	6/16/2022	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	6/20/2022	Lab File:	62022A017

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	0.5	ug/L	ND	EPA 524.2
Chloromethane	0.5	ug/L	ND	EPA 524.2
Vinyl Chloride	0.5	ug/L	ND	EPA 524.2
Bromomethane	0.5	ug/L	ND	EPA 524.2
Chloroethane	0.5	ug/L	ND	EPA 524.2
Trichlorofluoromethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloroethene	0.5	ug/L	ND	EPA 524.2
tert-Butyl Alcohol (TBA)	10	ug/L	ND	EPA 524.2
Methylene Chloride	0.5	ug/L	ND	EPA 524.2
trans-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Methyl tert-Butyl Ether (MtBE)	0.5	ug/L	ND	EPA 524.2
1,1-Dichloroethane	0.5	ug/L	ND	EPA 524.2
Diisopropyl Ether (DIPE)	0.5	ug/L	ND	EPA 524.2
cis-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Bromochloromethane	0.5	ug/L	ND	EPA 524.2
Chloroform	0.5	ug/L	ND	EPA 524.2
2,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Ethyl tert-Butyl Ether (EtBE)	0.5	ug/L	ND	EPA 524.2
1,2-Dichloroethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Alcohol (TAA)	10	ug/L	ND	EPA 524.2
1,1,1-Trichloroethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloropropene	0.5	ug/L	ND	EPA 524.2
Carbon tetrachloride	0.5	ug/L	ND	EPA 524.2
Benzene	0.5	ug/L	ND	EPA 524.2
tert-Amyl Methyl Ether (TAME)	0.5	ug/L	ND	EPA 524.2
Dibromomethane	0.5	ug/L	ND	EPA 524.2
1,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Trichloroethene	0.5	ug/L	ND	EPA 524.2
Bromodichloromethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Ethyl Ether (TAEE)	0.5	ug/L	ND	EPA 524.2
cis-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
trans-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
1,1,2-Trichloroethane	0.5	ug/L	ND	EPA 524.2
Toluene	0.5	ug/L	ND	EPA 524.2
1,3-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Dibromochloromethane	0.5	ug/L	ND	EPA 524.2
1,2-Dibromoethane	0.5	ug/L	ND	EPA 524.2
Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,1,1,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
Chlorobenzene	0.5	ug/L	ND	EPA 524.2
Ethylbenzene	0.5	ug/L	ND	EPA 524.2

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	11024 Liberty MID	Project Identification:	CHARLIES SERVICE
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	6/16/2022	Client Telephone:	
Date Received:	6/16/2022	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	6/20/2022	Lab File:	62022A017

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	0.5	ug/L	ND	EPA 524.2
Bromoform	0.5	ug/L	ND	EPA 524.2
Styrene	0.5	ug/L	ND	EPA 524.2
o-Xylene	0.5	ug/L	ND	EPA 524.2
1,1,2,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichloropropane	0.5	ug/L	ND	EPA 524.2
Isopropylbenzene	0.5	ug/L	ND	EPA 524.2
Bromobenzene	0.5	ug/L	ND	EPA 524.2
n-Propylbenzene	0.5	ug/L	ND	EPA 524.2
2-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
4-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
1,3,5-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
tert-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2,4-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
sec-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,3-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,4-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
p-iso-Propyltoluene	0.5	ug/L	ND	EPA 524.2
n-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dibromo-3-chloropropane	0.5	ug/L	ND	EPA 524.2
1,2,4-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2
Naphthalene	0.5	ug/L	ND	EPA 524.2
Hexachlorobutadiene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2

SURROGATE SPIKE

1,2-Dichloroethane-d4	%	110	EPA 524.2
Dibromofluoromethane	%	103	EPA 524.2
Toluene-d8	%	96	EPA 524.2
Bromofluorobenzene	%	92	EPA 524.2

MDE Drinking Water Supply Laboratory Certification #333

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	11024 Liberty EFF	Project Identification:	CHARLIES SERVICE
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	6/16/2022	Client Telephone:	
Date Received:	6/16/2022	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	6/20/2022	Lab File:	62022A016

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	0.5	ug/L	ND	EPA 524.2
Chloromethane	0.5	ug/L	ND	EPA 524.2
Vinyl Chloride	0.5	ug/L	ND	EPA 524.2
Bromomethane	0.5	ug/L	ND	EPA 524.2
Chloroethane	0.5	ug/L	ND	EPA 524.2
Trichlorofluoromethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloroethene	0.5	ug/L	ND	EPA 524.2
tert-Butyl Alcohol (TBA)	10	ug/L	ND	EPA 524.2
Methylene Chloride	0.5	ug/L	ND	EPA 524.2
trans-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Methyl tert-Butyl Ether (MtBE)	0.5	ug/L	ND	EPA 524.2
1,1-Dichloroethane	0.5	ug/L	ND	EPA 524.2
Diisopropyl Ether (DIPE)	0.5	ug/L	ND	EPA 524.2
cis-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Bromochloromethane	0.5	ug/L	ND	EPA 524.2
Chloroform	0.5	ug/L	ND	EPA 524.2
2,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Ethyl tert-Butyl Ether (EtBE)	0.5	ug/L	ND	EPA 524.2
1,2-Dichloroethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Alcohol (TAA)	10	ug/L	ND	EPA 524.2
1,1,1-Trichloroethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloropropene	0.5	ug/L	ND	EPA 524.2
Carbon tetrachloride	0.5	ug/L	ND	EPA 524.2
Benzene	0.5	ug/L	ND	EPA 524.2
tert-Amyl Methyl Ether (TAME)	0.5	ug/L	ND	EPA 524.2
Dibromomethane	0.5	ug/L	ND	EPA 524.2
1,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Trichloroethene	0.5	ug/L	ND	EPA 524.2
Bromodichloromethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Ethyl Ether (TAEE)	0.5	ug/L	ND	EPA 524.2
cis-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
trans-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
1,1,2-Trichloroethane	0.5	ug/L	ND	EPA 524.2
Toluene	0.5	ug/L	ND	EPA 524.2
1,3-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Dibromochloromethane	0.5	ug/L	ND	EPA 524.2
1,2-Dibromoethane	0.5	ug/L	ND	EPA 524.2
Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,1,1,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
Chlorobenzene	0.5	ug/L	ND	EPA 524.2
Ethylbenzene	0.5	ug/L	ND	EPA 524.2

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	11024 Liberty EFF	Project Identification:	CHARLIES SERVICE
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	6/16/2022	Client Telephone:	
Date Received:	6/16/2022	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	6/20/2022	Lab File:	62022A016

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	0.5	ug/L	ND	EPA 524.2
Bromoform	0.5	ug/L	ND	EPA 524.2
Styrene	0.5	ug/L	ND	EPA 524.2
o-Xylene	0.5	ug/L	ND	EPA 524.2
1,1,2,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichloropropane	0.5	ug/L	ND	EPA 524.2
Isopropylbenzene	0.5	ug/L	ND	EPA 524.2
Bromobenzene	0.5	ug/L	ND	EPA 524.2
n-Propylbenzene	0.5	ug/L	ND	EPA 524.2
2-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
4-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
1,3,5-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
tert-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2,4-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
sec-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,3-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,4-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
p-iso-Propyltoluene	0.5	ug/L	ND	EPA 524.2
n-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dibromo-3-chloropropane	0.5	ug/L	ND	EPA 524.2
1,2,4-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2
Naphthalene	0.5	ug/L	ND	EPA 524.2
Hexachlorobutadiene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2

SURROGATE SPIKE

1,2-Dichloroethane-d4	%	105	EPA 524.2
Dibromofluoromethane	%	102	EPA 524.2
Toluene-d8	%	99	EPA 524.2
Bromofluorobenzene	%	95	EPA 524.2

MDE Drinking Water Supply Laboratory Certification #333

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	4507 Wards Chapel	Project Identification:	CHARLIES SERVICE
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	6/16/2022	Client Telephone:	
Date Received:	6/16/2022	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	6/20/2022	Lab File:	62022A018

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	0.5	ug/L	ND	EPA 524.2
Chloromethane	0.5	ug/L	ND	EPA 524.2
Vinyl Chloride	0.5	ug/L	ND	EPA 524.2
Bromomethane	0.5	ug/L	ND	EPA 524.2
Chloroethane	0.5	ug/L	ND	EPA 524.2
Trichlorofluoromethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloroethene	0.5	ug/L	ND	EPA 524.2
tert-Butyl Alcohol (TBA)	10	ug/L	201	EPA 524.2
Methylene Chloride	0.5	ug/L	ND	EPA 524.2
trans-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Methyl tert-Butyl Ether (MtBE)	0.5	ug/L	1868	EPA 524.2
1,1-Dichloroethane	0.5	ug/L	ND	EPA 524.2
Diisopropyl Ether (DIPE)	0.5	ug/L	9.16	EPA 524.2
cis-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Bromochloromethane	0.5	ug/L	ND	EPA 524.2
Chloroform	0.5	ug/L	ND	EPA 524.2
2,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Ethyl tert-Butyl Ether (EtBE)	0.5	ug/L	ND	EPA 524.2
1,2-Dichloroethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Alcohol (TAA)	10	ug/L	ND	EPA 524.2
1,1,1-Trichloroethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloropropene	0.5	ug/L	ND	EPA 524.2
Carbon tetrachloride	0.5	ug/L	ND	EPA 524.2
Benzene	0.5	ug/L	ND	EPA 524.2
tert-Amyl Methyl Ether (TAME)	0.5	ug/L	14	EPA 524.2
Dibromomethane	0.5	ug/L	ND	EPA 524.2
1,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Trichloroethene	0.5	ug/L	ND	EPA 524.2
Bromodichloromethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Ethyl Ether (TAEE)	0.5	ug/L	ND	EPA 524.2
cis-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
trans-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
1,1,2-Trichloroethane	0.5	ug/L	ND	EPA 524.2
Toluene	0.5	ug/L	ND	EPA 524.2
1,3-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Dibromochloromethane	0.5	ug/L	ND	EPA 524.2
1,2-Dibromoethane	0.5	ug/L	ND	EPA 524.2
Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,1,1,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
Chlorobenzene	0.5	ug/L	ND	EPA 524.2
Ethylbenzene	0.5	ug/L	ND	EPA 524.2

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	4507 Wards Chapel	Project Identification:	CHARLIES SERVICE
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	6/16/2022	Client Telephone:	
Date Received:	6/16/2022	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	6/20/2022	Lab File:	62022A018

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	0.5	ug/L	ND	EPA 524.2
Bromoform	0.5	ug/L	ND	EPA 524.2
Styrene	0.5	ug/L	ND	EPA 524.2
o-Xylene	0.5	ug/L	ND	EPA 524.2
1,1,2,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichloropropane	0.5	ug/L	ND	EPA 524.2
Isopropylbenzene	0.5	ug/L	ND	EPA 524.2
Bromobenzene	0.5	ug/L	ND	EPA 524.2
n-Propylbenzene	0.5	ug/L	ND	EPA 524.2
2-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
4-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
1,3,5-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
tert-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2,4-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
sec-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,3-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,4-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
p-iso-Propyltoluene	0.5	ug/L	ND	EPA 524.2
n-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dibromo-3-chloropropane	0.5	ug/L	ND	EPA 524.2
1,2,4-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2
Naphthalene	0.5	ug/L	ND	EPA 524.2
Hexachlorobutadiene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2

SURROGATE SPIKE

1,2-Dichloroethane-d4	%	103	EPA 524.2
Dibromofluoromethane	%	98	EPA 524.2
Toluene-d8	%	96	EPA 524.2
Bromofluorobenzene	%	94	EPA 524.2

MDE Drinking Water Supply Laboratory Certification #333

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	TRIP BLANK	Project Identification:	CHARLIES SERVICE
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	6/16/2022	Client Telephone:	
Date Received:	6/16/2022	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	6/20/2022	Lab File:	62022A015

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	0.5	ug/L	ND	EPA 524.2
Chloromethane	0.5	ug/L	ND	EPA 524.2
Vinyl Chloride	0.5	ug/L	ND	EPA 524.2
Bromomethane	0.5	ug/L	ND	EPA 524.2
Chloroethane	0.5	ug/L	ND	EPA 524.2
Trichlorofluoromethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloroethene	0.5	ug/L	ND	EPA 524.2
tert-Butyl Alcohol (TBA)	10	ug/L	ND	EPA 524.2
Methylene Chloride	0.5	ug/L	ND	EPA 524.2
trans-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Methyl tert-Butyl Ether (MtBE)	0.5	ug/L	ND	EPA 524.2
1,1-Dichloroethane	0.5	ug/L	ND	EPA 524.2
Diisopropyl Ether (DIPE)	0.5	ug/L	ND	EPA 524.2
cis-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Bromochloromethane	0.5	ug/L	ND	EPA 524.2
Chloroform	0.5	ug/L	ND	EPA 524.2
2,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Ethyl tert-Butyl Ether (EtBE)	0.5	ug/L	ND	EPA 524.2
1,2-Dichloroethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Alcohol (TAA)	10	ug/L	ND	EPA 524.2
1,1,1-Trichloroethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloropropene	0.5	ug/L	ND	EPA 524.2
Carbon tetrachloride	0.5	ug/L	ND	EPA 524.2
Benzene	0.5	ug/L	ND	EPA 524.2
tert-Amyl Methyl Ether (TAME)	0.5	ug/L	ND	EPA 524.2
Dibromomethane	0.5	ug/L	ND	EPA 524.2
1,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Trichloroethene	0.5	ug/L	ND	EPA 524.2
Bromodichloromethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Ethyl Ether (TAEE)	0.5	ug/L	ND	EPA 524.2
cis-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
trans-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
1,1,2-Trichloroethane	0.5	ug/L	ND	EPA 524.2
Toluene	0.5	ug/L	ND	EPA 524.2
1,3-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Dibromochloromethane	0.5	ug/L	ND	EPA 524.2
1,2-Dibromoethane	0.5	ug/L	ND	EPA 524.2
Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,1,1,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
Chlorobenzene	0.5	ug/L	ND	EPA 524.2
Ethylbenzene	0.5	ug/L	ND	EPA 524.2

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	TRIP BLANK	Project Identification:	CHARLIES SERVICE
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	6/16/2022	Client Telephone:	
Date Received:	6/16/2022	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	6/20/2022	Lab File:	62022A015

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	0.5	ug/L	ND	EPA 524.2
Bromoform	0.5	ug/L	ND	EPA 524.2
Styrene	0.5	ug/L	ND	EPA 524.2
o-Xylene	0.5	ug/L	ND	EPA 524.2
1,1,2,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichloropropane	0.5	ug/L	ND	EPA 524.2
Isopropylbenzene	0.5	ug/L	ND	EPA 524.2
Bromobenzene	0.5	ug/L	ND	EPA 524.2
n-Propylbenzene	0.5	ug/L	ND	EPA 524.2
2-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
4-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
1,3,5-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
tert-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2,4-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
sec-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,3-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,4-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
p-iso-Propyltoluene	0.5	ug/L	ND	EPA 524.2
n-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dibromo-3-chloropropane	0.5	ug/L	ND	EPA 524.2
1,2,4-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2
Naphthalene	0.5	ug/L	ND	EPA 524.2
Hexachlorobutadiene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2

SURROGATE SPIKE

1,2-Dichloroethane-d4	%	109	EPA 524.2
Dibromofluoromethane	%	104	EPA 524.2
Toluene-d8	%	97	EPA 524.2
Bromofluorobenzene	%	94	EPA 524.2

MDE Drinking Water Supply Laboratory Certification #333

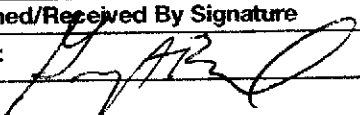
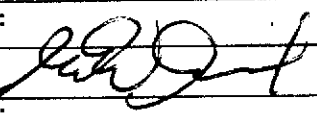
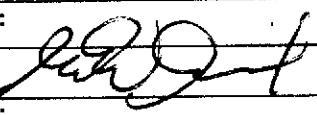
ADVANCED ENVIRONMENTAL CONCEPTS, INC.

1751-1 Pulaski Hwy., Havre de Grace, MD 21078-2207

Phone: 410-939-5550 Fax: 410-939-5552

www.AECEnviro.com

Chain of Custody Record

Client: Chris Brocato			Project Name: Charlie's Service Station			SDG#					
Address:			Project Location: 11024 Liberty Rd. Randallstown, MD			Preservatives					
			Phone:						Fax:		
Contact:			Email:			Requested Analysis					
Sample By: Greg Beal			Receive Completed Report Via (Circle One) U.S. Mail Email Fax						524.2		
Sample #	Sample ID	Date	Time	Matrix	pH	Observation No Chlorine					
1	11024 Liberty Rd Inf	06/16/22		Water	2.2				X		
2	11024 Liberty Rd Mid				2.2				X		
3	11024 Liberty Rd Eff				2.2				X		
4	4507 Wards Chapel Eff				2.2				X		
5	Trip				2.2				X		
6											
7											
8											
9											
10											
Relinquished/Received By Signature			Date	Time	Delivery Method	Lab Use Only					
Relinquished By: 			6/16/22			Temp of Cooler 24°C					
Received By: 						Ice Present (Y/N) (Y)					
Relinquished By: 			6/16/22			Custody Seal (Y/N) (Y)					
Received By:						Date of Extraction n/a					
Matrix Codes: SO = Soil, GW = Ground Water, WW = Waste Water, VP = Vapor, SL = Sludge, DW = Drinking Water, O = Other						Turn Around Time: (STD) 1 Day 2 Day 3 Day Other					
Special Instructions / Comments / QC Requirements:											

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	MW-1	Project Identification:	Charles Service Station
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	6/24/2022	Client Telephone:	
Date Received:	6/24/2022	Client Fax:	
Extraction Date:	6/25/2022	Analyst:	MM
Analysis Date:	6/26/2022	Lab File:	62622A025

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	1	ug/L	ND	EPA 8260
Chloromethane	1	ug/L	ND	EPA 8260
Vinyl Chloride	1	ug/L	ND	EPA 8260
Bromomethane	1	ug/L	ND	EPA 8260
Chloroethane	1	ug/L	ND	EPA 8260
Trichlorofluoromethane	1	ug/L	ND	EPA 8260
1,1-Dichloroethene	1	ug/L	ND	EPA 8260
tert-Butyl Alcohol (TBA)	25	ug/L	ND	EPA 8260
Methylene Chloride	1	ug/L	ND	EPA 8260
trans-1,2-Dichloroethene	1	ug/L	ND	EPA 8260
Methyl tert-Butyl Ether (MtBE)	1	ug/L	ND	EPA 8260
1,1-Dichloroethane	1	ug/L	ND	EPA 8260
Diisopropyl Ether (DIPE)	1	ug/L	ND	EPA 8260
cis-1,2-Dichloroethene	1	ug/L	ND	EPA 8260
Bromochloromethane	1	ug/L	ND	EPA 8260
Chloroform	1	ug/L	ND	EPA 8260
2,2-Dichloropropane	1	ug/L	ND	EPA 8260
Ethyl tert-Butyl Ether (EtBE)	1	ug/L	ND	EPA 8260
1,2-Dichloroethane	1	ug/L	ND	EPA 8260
tert-Amyl Alcohol (TAA)	25	ug/L	ND	EPA 8260
1,1,1-Trichloroethane	1	ug/L	ND	EPA 8260
1,1-Dichloropropene	1	ug/L	ND	EPA 8260
Carbon tetrachloride	1	ug/L	ND	EPA 8260
Benzene	1	ug/L	ND	EPA 8260
tert-Amyl Methyl Ether (TAME)	1	ug/L	ND	EPA 8260
Dibromomethane	1	ug/L	ND	EPA 8260
1,2-Dichloropropane	1	ug/L	ND	EPA 8260
Trichloroethene	1	ug/L	ND	EPA 8260
Bromodichloromethane	1	ug/L	ND	EPA 8260
tert-Amyl Ethyl Ether (TAEE)	1	ug/L	ND	EPA 8260
cis-1,3-Dichloropropene	1	ug/L	ND	EPA 8260
trans-1,3-Dichloropropene	1	ug/L	ND	EPA 8260
1,1,2-Trichloroethane	1	ug/L	ND	EPA 8260
Toluene	1	ug/L	ND	EPA 8260
1,3-Dichloropropane	1	ug/L	ND	EPA 8260
Dibromochloromethane	1	ug/L	ND	EPA 8260
1,2-Dibromoethane	1	ug/L	ND	EPA 8260
Tetrachloroethene	1	ug/L	ND	EPA 8260
1,1,1,2-Tetrachloroethene	1	ug/L	ND	EPA 8260
Chlorobenzene	1	ug/L	ND	EPA 8260
Ethylbenzene	1	ug/L	ND	EPA 8260

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	MW-1	Project Identification:	Charles Service Station
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	6/24/2022	Client Telephone:	
Date Received:	6/24/2022	Client Fax:	
Extraction Date:	6/25/2022	Analyst:	MM
Analysis Date:	6/26/2022	Lab File:	62622A025

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	2	ug/L	ND	EPA 8260
Bromoform	1	ug/L	ND	EPA 8260
Styrene	1	ug/L	ND	EPA 8260
o-Xylene	1	ug/L	ND	EPA 8260
1,1,2,2-Tetrachloroethane	1	ug/L	ND	EPA 8260
1,2,3-Trichloropropane	1	ug/L	ND	EPA 8260
Isopropylbenzene	1	ug/L	ND	EPA 8260
Bromobenzene	1	ug/L	ND	EPA 8260
n-Propylbenzene	1	ug/L	ND	EPA 8260
2-Chlorotoluene	1	ug/L	ND	EPA 8260
4-Chlorotoluene	1	ug/L	ND	EPA 8260
1,3,5-Trimethylbenzene	1	ug/L	ND	EPA 8260
tert-Butylbenzene	1	ug/L	ND	EPA 8260
1,2,4-Trimethylbenzene	1	ug/L	ND	EPA 8260
sec-Butylbenzene	1	ug/L	ND	EPA 8260
1,3-Dichlorobenzene	1	ug/L	ND	EPA 8260
1,4-Dichlorobenzene	1	ug/L	ND	EPA 8260
1,2-Dichlorobenzene	1	ug/L	ND	EPA 8260
p-iso-Propyltoluene	1	ug/L	ND	EPA 8260
n-Butylbenzene	1	ug/L	ND	EPA 8260
1,2-Dibromo-3-chloropropane	1	ug/L	ND	EPA 8260
1,2,4-Trichlorobenzene	1	ug/L	ND	EPA 8260
Naphthalene	1	ug/L	ND	EPA 8260
Hexachlorobutadiene	1	ug/L	ND	EPA 8260
1,2,3-Trichlorobenzene	1	ug/L	ND	EPA 8260
TPH GRO	40	ug/L	ND	EPA 8015B
TPH DRO	40	ug/L	ND	EPA 8015B

SURROGATE SPIKE

1,2-Dichloroethane-d4	%		104	EPA 8260
Dibromofluoromethane	%		95	EPA 8260
TFT	%		109	EPA 8015B
Toluene-d8	%		99	EPA 8260
Bromofluorobenzene	%		95	EPA 8260

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	MW-2	Project Identification:	Charles Service Station
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	6/24/2022	Client Telephone:	
Date Received:	6/24/2022	Client Fax:	
Extraction Date:	6/25/2022	Analyst:	MM
Analysis Date:	6/26/2022	Lab File:	62622A026

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	1	ug/L	ND	EPA 8260
Chloromethane	1	ug/L	ND	EPA 8260
Vinyl Chloride	1	ug/L	ND	EPA 8260
Bromomethane	1	ug/L	ND	EPA 8260
Chloroethane	1	ug/L	ND	EPA 8260
Trichlorofluoromethane	1	ug/L	ND	EPA 8260
1,1-Dichloroethene	1	ug/L	ND	EPA 8260
tert-Butyl Alcohol (TBA)	25	ug/L	ND	EPA 8260
Methylene Chloride	1	ug/L	ND	EPA 8260
trans-1,2-Dichloroethene	1	ug/L	ND	EPA 8260
Methyl tert-Butyl Ether (MtBE)	1	ug/L	ND	EPA 8260
1,1-Dichloroethane	1	ug/L	ND	EPA 8260
Diisopropyl Ether (DIPE)	1	ug/L	6.71	EPA 8260
cis-1,2-Dichloroethene	1	ug/L	ND	EPA 8260
Bromochloromethane	1	ug/L	ND	EPA 8260
Chloroform	1	ug/L	ND	EPA 8260
2,2-Dichloropropane	1	ug/L	ND	EPA 8260
Ethyl tert-Butyl Ether (EtBE)	1	ug/L	ND	EPA 8260
1,2-Dichloroethane	1	ug/L	ND	EPA 8260
tert-Amyl Alcohol (TAA)	25	ug/L	ND	EPA 8260
1,1,1-Trichloroethane	1	ug/L	ND	EPA 8260
1,1-Dichloropropene	1	ug/L	ND	EPA 8260
Carbon tetrachloride	1	ug/L	ND	EPA 8260
Benzene	1	ug/L	ND	EPA 8260
tert-Amyl Methyl Ether (TAME)	1	ug/L	ND	EPA 8260
Dibromomethane	1	ug/L	ND	EPA 8260
1,2-Dichloropropane	1	ug/L	ND	EPA 8260
Trichloroethene	1	ug/L	ND	EPA 8260
Bromodichloromethane	1	ug/L	ND	EPA 8260
tert-Amyl Ethyl Ether (TAEE)	1	ug/L	ND	EPA 8260
cis-1,3-Dichloropropene	1	ug/L	ND	EPA 8260
trans-1,3-Dichloropropene	1	ug/L	ND	EPA 8260
1,1,2-Trichloroethane	1	ug/L	ND	EPA 8260
Toluene	1	ug/L	ND	EPA 8260
1,3-Dichloropropane	1	ug/L	ND	EPA 8260
Dibromochloromethane	1	ug/L	ND	EPA 8260
1,2-Dibromoethane	1	ug/L	ND	EPA 8260
Tetrachloroethene	1	ug/L	ND	EPA 8260
1,1,1,2-Tetrachloroethene	1	ug/L	ND	EPA 8260
Chlorobenzene	1	ug/L	ND	EPA 8260
Ethylbenzene	1	ug/L	ND	EPA 8260

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	MW-2	Project Identification:	Charles Service Station
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	6/24/2022	Client Telephone:	
Date Received:	6/24/2022	Client Fax:	
Extraction Date:	6/25/2022	Analyst:	MM
Analysis Date:	6/26/2022	Lab File:	62622A026

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	2	ug/L	ND	EPA 8260
Bromoform	1	ug/L	ND	EPA 8260
Styrene	1	ug/L	ND	EPA 8260
o-Xylene	1	ug/L	ND	EPA 8260
1,1,2,2-Tetrachloroethane	1	ug/L	ND	EPA 8260
1,2,3-Trichloropropane	1	ug/L	ND	EPA 8260
Isopropylbenzene	1	ug/L	ND	EPA 8260
Bromobenzene	1	ug/L	ND	EPA 8260
n-Propylbenzene	1	ug/L	ND	EPA 8260
2-Chlorotoluene	1	ug/L	ND	EPA 8260
4-Chlorotoluene	1	ug/L	ND	EPA 8260
1,3,5-Trimethylbenzene	1	ug/L	ND	EPA 8260
tert-Butylbenzene	1	ug/L	ND	EPA 8260
1,2,4-Trimethylbenzene	1	ug/L	ND	EPA 8260
sec-Butylbenzene	1	ug/L	ND	EPA 8260
1,3-Dichlorobenzene	1	ug/L	ND	EPA 8260
1,4-Dichlorobenzene	1	ug/L	ND	EPA 8260
1,2-Dichlorobenzene	1	ug/L	ND	EPA 8260
p-iso-Propyltoluene	1	ug/L	ND	EPA 8260
n-Butylbenzene	1	ug/L	ND	EPA 8260
1,2-Dibromo-3-chloropropane	1	ug/L	ND	EPA 8260
1,2,4-Trichlorobenzene	1	ug/L	ND	EPA 8260
Naphthalene	1	ug/L	ND	EPA 8260
Hexachlorobutadiene	1	ug/L	ND	EPA 8260
1,2,3-Trichlorobenzene	1	ug/L	ND	EPA 8260
TPH GRO	40	ug/L	ND	EPA 8015B
TPH DRO	40	ug/L	ND	EPA 8015B

SURROGATE SPIKE

1,2-Dichloroethane-d4	%	103	EPA 8260
Dibromofluoromethane	%	98	EPA 8260
TFT	%	109	EPA 8015B
Toluene-d8	%	99	EPA 8260
Bromofluorobenzene	%	96	EPA 8260

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	MW-3	Project Identification:	Charles Service Station
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	6/24/2022	Client Telephone:	
Date Received:	6/24/2022	Client Fax:	
Extraction Date:	6/25/2022	Analyst:	MM
Analysis Date:	6/26/2022	Lab File:	62622A027

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	1	ug/L	ND	EPA 8260
Chloromethane	1	ug/L	ND	EPA 8260
Vinyl Chloride	1	ug/L	ND	EPA 8260
Bromomethane	1	ug/L	ND	EPA 8260
Chloroethane	1	ug/L	ND	EPA 8260
Trichlorofluoromethane	1	ug/L	ND	EPA 8260
1,1-Dichloroethene	1	ug/L	ND	EPA 8260
tert-Butyl Alcohol (TBA)	25	ug/L	ND	EPA 8260
Methylene Chloride	1	ug/L	ND	EPA 8260
trans-1,2-Dichloroethene	1	ug/L	ND	EPA 8260
Methyl tert-Butyl Ether (MtBE)	1	ug/L	ND	EPA 8260
1,1-Dichloroethane	1	ug/L	ND	EPA 8260
Diisopropyl Ether (DIPE)	1	ug/L	ND	EPA 8260
cis-1,2-Dichloroethene	1	ug/L	ND	EPA 8260
Bromochloromethane	1	ug/L	ND	EPA 8260
Chloroform	1	ug/L	ND	EPA 8260
2,2-Dichloropropane	1	ug/L	ND	EPA 8260
Ethyl tert-Butyl Ether (EtBE)	1	ug/L	ND	EPA 8260
1,2-Dichloroethane	1	ug/L	ND	EPA 8260
tert-Amyl Alcohol (TAA)	25	ug/L	ND	EPA 8260
1,1,1-Trichloroethane	1	ug/L	ND	EPA 8260
1,1-Dichloropropene	1	ug/L	ND	EPA 8260
Carbon tetrachloride	1	ug/L	ND	EPA 8260
Benzene	1	ug/L	4120	EPA 8260
tert-Amyl Methyl Ether (TAME)	1	ug/L	ND	EPA 8260
Dibromomethane	1	ug/L	ND	EPA 8260
1,2-Dichloropropane	1	ug/L	ND	EPA 8260
Trichloroethene	1	ug/L	ND	EPA 8260
Bromodichloromethane	1	ug/L	ND	EPA 8260
tert-Amyl Ethyl Ether (TAEE)	1	ug/L	ND	EPA 8260
cis-1,3-Dichloropropene	1	ug/L	ND	EPA 8260
trans-1,3-Dichloropropene	1	ug/L	ND	EPA 8260
1,1,2-Trichloroethane	1	ug/L	ND	EPA 8260
Toluene	1	ug/L	21120	EPA 8260
1,3-Dichloropropane	1	ug/L	ND	EPA 8260
Dibromochloromethane	1	ug/L	ND	EPA 8260
1,2-Dibromoethane	1	ug/L	ND	EPA 8260
Tetrachloroethene	1	ug/L	ND	EPA 8260
1,1,1,2-Tetrachloroethene	1	ug/L	ND	EPA 8260
Chlorobenzene	1	ug/L	ND	EPA 8260
Ethylbenzene	1	ug/L	21360	EPA 8260

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	MW-3	Project Identification:	Charles Service Station
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	6/24/2022	Client Telephone:	
Date Received:	6/24/2022	Client Fax:	
Extraction Date:	6/25/2022	Analyst:	MM
Analysis Date:	6/26/2022	Lab File:	62622A027

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	2	ug/L	76000	EPA 8260
Bromoform	1	ug/L	ND	EPA 8260
Styrene	1	ug/L	ND	EPA 8260
o-Xylene	1	ug/L	27600	EPA 8260
1,1,2,2-Tetrachloroethane	1	ug/L	ND	EPA 8260
1,2,3-Trichloropropane	1	ug/L	ND	EPA 8260
Isopropylbenzene	1	ug/L	2300	EPA 8260
Bromobenzene	1	ug/L	ND	EPA 8260
n-Propylbenzene	1	ug/L	5760	EPA 8260
2-Chlorotoluene	1	ug/L	ND	EPA 8260
4-Chlorotoluene	1	ug/L	ND	EPA 8260
1,3,5-Trimethylbenzene	1	ug/L	15200	EPA 8260
tert-Butylbenzene	1	ug/L	ND	EPA 8260
1,2,4-Trimethylbenzene	1	ug/L	46400	EPA 8260
sec-Butylbenzene	1	ug/L	ND	EPA 8260
1,3-Dichlorobenzene	1	ug/L	ND	EPA 8260
1,4-Dichlorobenzene	1	ug/L	ND	EPA 8260
1,2-Dichlorobenzene	1	ug/L	ND	EPA 8260
p-iso-Propyltoluene	1	ug/L	680	EPA 8260
n-Butylbenzene	1	ug/L	4400	EPA 8260
1,2-Dibromo-3-chloropropane	1	ug/L	ND	EPA 8260
1,2,4-Trichlorobenzene	1	ug/L	ND	EPA 8260
Naphthalene	1	ug/L	9200	EPA 8260
Hexachlorobutadiene	1	ug/L	ND	EPA 8260
1,2,3-Trichlorobenzene	1	ug/L	ND	EPA 8260
TPH GRO	40	ug/L	354700	EPA 8015B
TPH DRO	40	ug/L	ND	EPA 8015B

SURROGATE SPIKE

1,2-Dichloroethane-d4	%		98	EPA 8260
Dibromofluoromethane	%		94	EPA 8260
TFT	%		107	EPA 8015B
Toluene-d8	%		99	EPA 8260
Bromofluorobenzene	%		102	EPA 8260

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	11023 LIBERTY RD	Project Identification:	Charles Service Station
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	6/24/2022	Client Telephone:	
Date Received:	6/24/2022	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	6/28/2022	Lab File:	62822A007

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	0.5	ug/L	ND	EPA 524.2
Chloromethane	0.5	ug/L	ND	EPA 524.2
Vinyl Chloride	0.5	ug/L	ND	EPA 524.2
Bromomethane	0.5	ug/L	ND	EPA 524.2
Chloroethane	0.5	ug/L	ND	EPA 524.2
Trichlorofluoromethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloroethene	0.5	ug/L	ND	EPA 524.2
tert-Butyl Alcohol (TBA)	10	ug/L	ND	EPA 524.2
Methylene Chloride	0.5	ug/L	ND	EPA 524.2
trans-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Methyl tert-Butyl Ether (MtBE)	0.5	ug/L	ND	EPA 524.2
1,1-Dichloroethane	0.5	ug/L	ND	EPA 524.2
Diisopropyl Ether (DIPE)	0.5	ug/L	ND	EPA 524.2
cis-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Bromochloromethane	0.5	ug/L	ND	EPA 524.2
Chloroform	0.5	ug/L	ND	EPA 524.2
2,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Ethyl tert-Butyl Ether (EtBE)	0.5	ug/L	ND	EPA 524.2
1,2-Dichloroethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Alcohol (TAA)	10	ug/L	ND	EPA 524.2
1,1,1-Trichloroethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloropropene	0.5	ug/L	ND	EPA 524.2
Carbon tetrachloride	0.5	ug/L	ND	EPA 524.2
Benzene	0.5	ug/L	ND	EPA 524.2
tert-Amyl Methyl Ether (TAME)	0.5	ug/L	ND	EPA 524.2
Dibromomethane	0.5	ug/L	ND	EPA 524.2
1,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Trichloroethene	0.5	ug/L	ND	EPA 524.2
Bromodichloromethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Ethyl Ether (TAEE)	0.5	ug/L	ND	EPA 524.2
cis-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
trans-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
1,1,2-Trichloroethane	0.5	ug/L	ND	EPA 524.2
Toluene	0.5	ug/L	ND	EPA 524.2
1,3-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Dibromochloromethane	0.5	ug/L	ND	EPA 524.2
1,2-Dibromoethane	0.5	ug/L	ND	EPA 524.2
Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,1,1,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
Chlorobenzene	0.5	ug/L	ND	EPA 524.2
Ethylbenzene	0.5	ug/L	ND	EPA 524.2

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	11023 LIBERTY RD	Project Identification:	Charles Service Station
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	6/24/2022	Client Telephone:	
Date Received:	6/24/2022	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	6/28/2022	Lab File:	62822A007

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	0.5	ug/L	ND	EPA 524.2
Bromoform	0.5	ug/L	ND	EPA 524.2
Styrene	0.5	ug/L	ND	EPA 524.2
o-Xylene	0.5	ug/L	ND	EPA 524.2
1,1,2,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichloropropane	0.5	ug/L	ND	EPA 524.2
Isopropylbenzene	0.5	ug/L	ND	EPA 524.2
Bromobenzene	0.5	ug/L	ND	EPA 524.2
n-Propylbenzene	0.5	ug/L	ND	EPA 524.2
2-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
4-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
1,3,5-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
tert-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2,4-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
sec-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,3-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,4-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
p-iso-Propyltoluene	0.5	ug/L	ND	EPA 524.2
n-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dibromo-3-chloropropane	0.5	ug/L	ND	EPA 524.2
1,2,4-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2
Naphthalene	0.5	ug/L	ND	EPA 524.2
Hexachlorobutadiene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2

SURROGATE SPIKE

1,2-Dichloroethane-d4	%	107	EPA 524.2
Dibromofluoromethane	%	83	EPA 524.2
Toluene-d8	%	100	EPA 524.2
Bromofluorobenzene	%	95	EPA 524.2

MDE Drinking Water Supply Laboratory Certification #333

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	TRIP BLANK	Project Identification:	Charles Service Station
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	6/24/2022	Client Telephone:	
Date Received:	6/24/2022	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	6/28/2022	Lab File:	62822A006

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	0.5	ug/L	ND	EPA 524.2
Chloromethane	0.5	ug/L	ND	EPA 524.2
Vinyl Chloride	0.5	ug/L	ND	EPA 524.2
Bromomethane	0.5	ug/L	ND	EPA 524.2
Chloroethane	0.5	ug/L	ND	EPA 524.2
Trichlorofluoromethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloroethene	0.5	ug/L	ND	EPA 524.2
tert-Butyl Alcohol (TBA)	10	ug/L	ND	EPA 524.2
Methylene Chloride	0.5	ug/L	ND	EPA 524.2
trans-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Methyl tert-Butyl Ether (MtBE)	0.5	ug/L	ND	EPA 524.2
1,1-Dichloroethane	0.5	ug/L	ND	EPA 524.2
Diisopropyl Ether (DIPE)	0.5	ug/L	ND	EPA 524.2
cis-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Bromochloromethane	0.5	ug/L	ND	EPA 524.2
Chloroform	0.5	ug/L	ND	EPA 524.2
2,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Ethyl tert-Butyl Ether (EtBE)	0.5	ug/L	ND	EPA 524.2
1,2-Dichloroethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Alcohol (TAA)	10	ug/L	ND	EPA 524.2
1,1,1-Trichloroethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloropropene	0.5	ug/L	ND	EPA 524.2
Carbon tetrachloride	0.5	ug/L	ND	EPA 524.2
Benzene	0.5	ug/L	ND	EPA 524.2
tert-Amyl Methyl Ether (TAME)	0.5	ug/L	ND	EPA 524.2
Dibromomethane	0.5	ug/L	ND	EPA 524.2
1,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Trichloroethene	0.5	ug/L	ND	EPA 524.2
Bromodichloromethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Ethyl Ether (TAEE)	0.5	ug/L	ND	EPA 524.2
cis-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
trans-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
1,1,2-Trichloroethane	0.5	ug/L	ND	EPA 524.2
Toluene	0.5	ug/L	ND	EPA 524.2
1,3-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Dibromochloromethane	0.5	ug/L	ND	EPA 524.2
1,2-Dibromoethane	0.5	ug/L	ND	EPA 524.2
Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,1,1,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
Chlorobenzene	0.5	ug/L	ND	EPA 524.2
Ethylbenzene	0.5	ug/L	ND	EPA 524.2

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	TRIP BLANK	Project Identification:	Charles Service Station
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	6/24/2022	Client Telephone:	
Date Received:	6/24/2022	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	6/28/2022	Lab File:	62822A006

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	0.5	ug/L	ND	EPA 524.2
Bromoform	0.5	ug/L	ND	EPA 524.2
Styrene	0.5	ug/L	ND	EPA 524.2
o-Xylene	0.5	ug/L	ND	EPA 524.2
1,1,2,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichloropropane	0.5	ug/L	ND	EPA 524.2
Isopropylbenzene	0.5	ug/L	ND	EPA 524.2
Bromobenzene	0.5	ug/L	ND	EPA 524.2
n-Propylbenzene	0.5	ug/L	ND	EPA 524.2
2-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
4-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
1,3,5-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
tert-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2,4-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
sec-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,3-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,4-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
p-iso-Propyltoluene	0.5	ug/L	ND	EPA 524.2
n-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dibromo-3-chloropropane	0.5	ug/L	ND	EPA 524.2
1,2,4-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2
Naphthalene	0.5	ug/L	ND	EPA 524.2
Hexachlorobutadiene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2

SURROGATE SPIKE

1,2-Dichloroethane-d4	%	106	EPA 524.2
Dibromofluoromethane	%	98	EPA 524.2
Toluene-d8	%	97	EPA 524.2
Bromofluorobenzene	%	95	EPA 524.2

MDE Drinking Water Supply Laboratory Certification #333

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

1751-1 Pulaski Hwy., Havre de Grace, MD 21078-2207

Phone: 410-939-5550 Fax: 410-939-5552

www.AECEnviro.com

Chain of Custody Record

Client: Chris Brocato			Project Name: Charlie's Service Station				SDG#				
Address:			Project Location:				Preservatives				
			11024 Liberty Rd, Randallstown, MD								
Contact:			Phone: Fax:				Requested Analysis				
			Email:								
Sample By: Greg Beal			Receive Completed Report Via (Circle One)				TPH	VOCs			Observation
			U.S. Mail Email Fax				GRO	8260	524.2		
							DRO				
							8015				
Sample #	Sample ID	Date	Time	Matrix	pH						
1	MW-1	06/24/22		Water		X	X				
2	MW-2					X	X				
3	MW-3					X	X				
4	11023 Liberty Rd				L2			X			
5	Trip				L2			X			
6											
7											
8											
9											
10											
Relinquished/Received By Signature			Date	Time	Delivery Method		Lab Use Only				
Relinquished By: <i>[Signature]</i>			6/24/22				Temp of Cooler				
Received By: <i>[Signature]</i>							Ice Present <i>14°C</i> (Y/N)				
Relinquished By: <i>[Signature]</i>			6/24/22				Custody Seal (Y/N)				
Received By: <i>[Signature]</i>							Date of Extraction <i>6/24/22</i>				
Matrix Codes: SO = Soil, GW = Ground Water, WW = Waste Water, VP = Vapor, SL = Sludge, DW = Drinking Water, O = Other											
Special Instructions / Comments / QC Requirements:											
Turn Around Time: <i>[Signature]</i>											

NO CHLORINE

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	11024 LIBERTY INF	Project Identification:	Charles Service Station
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	7/14/2022	Client Telephone:	
Date Received:	7/14/2022	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	7/14/2022	Lab File:	71422A012

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	0.5	ug/L	ND	EPA 524.2
Chloromethane	0.5	ug/L	ND	EPA 524.2
Vinyl Chloride	0.5	ug/L	ND	EPA 524.2
Bromomethane	0.5	ug/L	ND	EPA 524.2
Chloroethane	0.5	ug/L	ND	EPA 524.2
Trichlorofluoromethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloroethene	0.5	ug/L	ND	EPA 524.2
tert-Butyl Alcohol (TBA)	10	ug/L	10.4	EPA 524.2
Methylene Chloride	0.5	ug/L	ND	EPA 524.2
trans-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Methyl tert-Butyl Ether (MtBE)	0.5	ug/L	243	EPA 524.2
1,1-Dichloroethane	0.5	ug/L	ND	EPA 524.2
Diisopropyl Ether (DIPE)	0.5	ug/L	4.95	EPA 524.2
cis-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Bromochloromethane	0.5	ug/L	ND	EPA 524.2
Chloroform	0.5	ug/L	ND	EPA 524.2
2,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Ethyl tert-Butyl Ether (EtBE)	0.5	ug/L	ND	EPA 524.2
1,2-Dichloroethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Alcohol (TAA)	10	ug/L	ND	EPA 524.2
1,1,1-Trichloroethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloropropene	0.5	ug/L	ND	EPA 524.2
Carbon tetrachloride	0.5	ug/L	ND	EPA 524.2
Benzene	0.5	ug/L	ND	EPA 524.2
tert-Amyl Methyl Ether (TAME)	0.5	ug/L	ND	EPA 524.2
Dibromomethane	0.5	ug/L	ND	EPA 524.2
1,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Trichloroethene	0.5	ug/L	ND	EPA 524.2
Bromodichloromethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Ethyl Ether (TAEE)	0.5	ug/L	ND	EPA 524.2
cis-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
trans-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
1,1,2-Trichloroethane	0.5	ug/L	ND	EPA 524.2
Toluene	0.5	ug/L	ND	EPA 524.2
1,3-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Dibromochloromethane	0.5	ug/L	ND	EPA 524.2
1,2-Dibromoethane	0.5	ug/L	ND	EPA 524.2
Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,1,1,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
Chlorobenzene	0.5	ug/L	ND	EPA 524.2
Ethylbenzene	0.5	ug/L	ND	EPA 524.2

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	11024 LIBERTY INF	Project Identification:	Charles Service Station
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	7/14/2022	Client Telephone:	
Date Received:	7/14/2022	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	7/14/2022	Lab File:	71422A012

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	0.5	ug/L	ND	EPA 524.2
Bromoform	0.5	ug/L	ND	EPA 524.2
Styrene	0.5	ug/L	ND	EPA 524.2
o-Xylene	0.5	ug/L	ND	EPA 524.2
1,1,2,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichloropropane	0.5	ug/L	ND	EPA 524.2
Isopropylbenzene	0.5	ug/L	ND	EPA 524.2
Bromobenzene	0.5	ug/L	ND	EPA 524.2
n-Propylbenzene	0.5	ug/L	ND	EPA 524.2
2-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
4-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
1,3,5-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
tert-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2,4-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
sec-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,3-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,4-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
p-iso-Propyltoluene	0.5	ug/L	ND	EPA 524.2
n-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dibromo-3-chloropropane	0.5	ug/L	ND	EPA 524.2
1,2,4-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2
Naphthalene	0.5	ug/L	ND	EPA 524.2
Hexachlorobutadiene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2

SURROGATE SPIKE

1,2-Dichloroethane-d4	%	111	EPA 524.2
Dibromofluoromethane	%	106	EPA 524.2
Toluene-d8	%	93	EPA 524.2
Bromofluorobenzene	%	101	EPA 524.2

MDE Drinking Water Supply Laboratory Certification #333

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	11024 LIBERTY INT 1	Project Identification:	Charles Service Station
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	7/14/2022	Client Telephone:	
Date Received:	7/14/2022	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	7/14/2022	Lab File:	71422A011

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	0.5	ug/L	ND	EPA 524.2
Chloromethane	0.5	ug/L	ND	EPA 524.2
Vinyl Chloride	0.5	ug/L	ND	EPA 524.2
Bromomethane	0.5	ug/L	ND	EPA 524.2
Chloroethane	0.5	ug/L	ND	EPA 524.2
Trichlorofluoromethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloroethene	0.5	ug/L	ND	EPA 524.2
tert-Butyl Alcohol (TBA)	10	ug/L	ND	EPA 524.2
Methylene Chloride	0.5	ug/L	ND	EPA 524.2
trans-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Methyl tert-Butyl Ether (MtBE)	0.5	ug/L	ND	EPA 524.2
1,1-Dichloroethane	0.5	ug/L	ND	EPA 524.2
Diisopropyl Ether (DIPE)	0.5	ug/L	ND	EPA 524.2
cis-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Bromochloromethane	0.5	ug/L	ND	EPA 524.2
Chloroform	0.5	ug/L	ND	EPA 524.2
2,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Ethyl tert-Butyl Ether (EtBE)	0.5	ug/L	ND	EPA 524.2
1,2-Dichloroethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Alcohol (TAA)	10	ug/L	ND	EPA 524.2
1,1,1-Trichloroethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloropropene	0.5	ug/L	ND	EPA 524.2
Carbon tetrachloride	0.5	ug/L	ND	EPA 524.2
Benzene	0.5	ug/L	ND	EPA 524.2
tert-Amyl Methyl Ether (TAME)	0.5	ug/L	ND	EPA 524.2
Dibromomethane	0.5	ug/L	ND	EPA 524.2
1,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Trichloroethene	0.5	ug/L	ND	EPA 524.2
Bromodichloromethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Ethyl Ether (TAEE)	0.5	ug/L	ND	EPA 524.2
cis-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
trans-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
1,1,2-Trichloroethane	0.5	ug/L	ND	EPA 524.2
Toluene	0.5	ug/L	ND	EPA 524.2
1,3-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Dibromochloromethane	0.5	ug/L	ND	EPA 524.2
1,2-Dibromoethane	0.5	ug/L	ND	EPA 524.2
Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,1,1,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
Chlorobenzene	0.5	ug/L	ND	EPA 524.2
Ethylbenzene	0.5	ug/L	ND	EPA 524.2

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	11024 LIBERTY INT 1	Project Identification:	Charles Service Station
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	7/14/2022	Client Telephone:	
Date Received:	7/14/2022	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	7/14/2022	Lab File:	71422A011

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	0.5	ug/L	ND	EPA 524.2
Bromoform	0.5	ug/L	ND	EPA 524.2
Styrene	0.5	ug/L	ND	EPA 524.2
o-Xylene	0.5	ug/L	ND	EPA 524.2
1,1,2,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichloropropane	0.5	ug/L	ND	EPA 524.2
Isopropylbenzene	0.5	ug/L	ND	EPA 524.2
Bromobenzene	0.5	ug/L	ND	EPA 524.2
n-Propylbenzene	0.5	ug/L	ND	EPA 524.2
2-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
4-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
1,3,5-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
tert-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2,4-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
sec-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,3-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,4-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
p-iso-Propyltoluene	0.5	ug/L	ND	EPA 524.2
n-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dibromo-3-chloropropane	0.5	ug/L	ND	EPA 524.2
1,2,4-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2
Naphthalene	0.5	ug/L	ND	EPA 524.2
Hexachlorobutadiene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2

SURROGATE SPIKE

1,2-Dichloroethane-d4	%	107	EPA 524.2
Dibromofluoromethane	%	105	EPA 524.2
Toluene-d8	%	91	EPA 524.2
Bromofluorobenzene	%	100	EPA 524.2

MDE Drinking Water Supply Laboratory Certification #333

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	11024 LIBERTY EFF	Project Identification:	Charles Service Station
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	7/14/2022	Client Telephone:	
Date Received:	7/14/2022	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	7/14/2022	Lab File:	71422A010

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	0.5	ug/L	ND	EPA 524.2
Chloromethane	0.5	ug/L	ND	EPA 524.2
Vinyl Chloride	0.5	ug/L	ND	EPA 524.2
Bromomethane	0.5	ug/L	ND	EPA 524.2
Chloroethane	0.5	ug/L	ND	EPA 524.2
Trichlorofluoromethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloroethene	0.5	ug/L	ND	EPA 524.2
tert-Butyl Alcohol (TBA)	10	ug/L	ND	EPA 524.2
Methylene Chloride	0.5	ug/L	ND	EPA 524.2
trans-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Methyl tert-Butyl Ether (MtBE)	0.5	ug/L	ND	EPA 524.2
1,1-Dichloroethane	0.5	ug/L	ND	EPA 524.2
Diisopropyl Ether (DIPE)	0.5	ug/L	ND	EPA 524.2
cis-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Bromochloromethane	0.5	ug/L	ND	EPA 524.2
Chloroform	0.5	ug/L	ND	EPA 524.2
2,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Ethyl tert-Butyl Ether (EtBE)	0.5	ug/L	ND	EPA 524.2
1,2-Dichloroethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Alcohol (TAA)	10	ug/L	ND	EPA 524.2
1,1,1-Trichloroethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloropropene	0.5	ug/L	ND	EPA 524.2
Carbon tetrachloride	0.5	ug/L	ND	EPA 524.2
Benzene	0.5	ug/L	ND	EPA 524.2
tert-Amyl Methyl Ether (TAME)	0.5	ug/L	ND	EPA 524.2
Dibromomethane	0.5	ug/L	ND	EPA 524.2
1,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Trichloroethene	0.5	ug/L	ND	EPA 524.2
Bromodichloromethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Ethyl Ether (TAEE)	0.5	ug/L	ND	EPA 524.2
cis-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
trans-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
1,1,2-Trichloroethane	0.5	ug/L	ND	EPA 524.2
Toluene	0.5	ug/L	ND	EPA 524.2
1,3-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Dibromochloromethane	0.5	ug/L	ND	EPA 524.2
1,2-Dibromoethane	0.5	ug/L	ND	EPA 524.2
Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,1,1,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
Chlorobenzene	0.5	ug/L	ND	EPA 524.2
Ethylbenzene	0.5	ug/L	ND	EPA 524.2

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	11024 LIBERTY EFF	Project Identification:	Charles Service Station
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	7/14/2022	Client Telephone:	
Date Received:	7/14/2022	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	7/14/2022	Lab File:	71422A010

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	0.5	ug/L	ND	EPA 524.2
Bromoform	0.5	ug/L	ND	EPA 524.2
Styrene	0.5	ug/L	ND	EPA 524.2
o-Xylene	0.5	ug/L	ND	EPA 524.2
1,1,2,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichloropropane	0.5	ug/L	ND	EPA 524.2
Isopropylbenzene	0.5	ug/L	ND	EPA 524.2
Bromobenzene	0.5	ug/L	ND	EPA 524.2
n-Propylbenzene	0.5	ug/L	ND	EPA 524.2
2-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
4-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
1,3,5-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
tert-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2,4-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
sec-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,3-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,4-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
p-iso-Propyltoluene	0.5	ug/L	ND	EPA 524.2
n-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dibromo-3-chloropropane	0.5	ug/L	ND	EPA 524.2
1,2,4-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2
Naphthalene	0.5	ug/L	ND	EPA 524.2
Hexachlorobutadiene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2

SURROGATE SPIKE

1,2-Dichloroethane-d4	%	110	EPA 524.2
Dibromofluoromethane	%	105	EPA 524.2
Toluene-d8	%	92	EPA 524.2
Bromofluorobenzene	%	101	EPA 524.2

MDE Drinking Water Supply Laboratory Certification #333

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	11023 LIBERTY RD	Project Identification:	Charles Service Station
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	7/14/2022	Client Telephone:	
Date Received:	7/14/2022	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	7/14/2022	Lab File:	71422A009

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	0.5	ug/L	ND	EPA 524.2
Chloromethane	0.5	ug/L	ND	EPA 524.2
Vinyl Chloride	0.5	ug/L	ND	EPA 524.2
Bromomethane	0.5	ug/L	ND	EPA 524.2
Chloroethane	0.5	ug/L	ND	EPA 524.2
Trichlorofluoromethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloroethene	0.5	ug/L	ND	EPA 524.2
tert-Butyl Alcohol (TBA)	10	ug/L	ND	EPA 524.2
Methylene Chloride	0.5	ug/L	ND	EPA 524.2
trans-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Methyl tert-Butyl Ether (MtBE)	0.5	ug/L	ND	EPA 524.2
1,1-Dichloroethane	0.5	ug/L	ND	EPA 524.2
Diisopropyl Ether (DIPE)	0.5	ug/L	ND	EPA 524.2
cis-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Bromochloromethane	0.5	ug/L	ND	EPA 524.2
Chloroform	0.5	ug/L	ND	EPA 524.2
2,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Ethyl tert-Butyl Ether (EtBE)	0.5	ug/L	ND	EPA 524.2
1,2-Dichloroethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Alcohol (TAA)	10	ug/L	ND	EPA 524.2
1,1,1-Trichloroethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloropropene	0.5	ug/L	ND	EPA 524.2
Carbon tetrachloride	0.5	ug/L	ND	EPA 524.2
Benzene	0.5	ug/L	ND	EPA 524.2
tert-Amyl Methyl Ether (TAME)	0.5	ug/L	ND	EPA 524.2
Dibromomethane	0.5	ug/L	ND	EPA 524.2
1,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Trichloroethene	0.5	ug/L	ND	EPA 524.2
Bromodichloromethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Ethyl Ether (TAEE)	0.5	ug/L	ND	EPA 524.2
cis-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
trans-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
1,1,2-Trichloroethane	0.5	ug/L	ND	EPA 524.2
Toluene	0.5	ug/L	ND	EPA 524.2
1,3-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Dibromochloromethane	0.5	ug/L	ND	EPA 524.2
1,2-Dibromoethane	0.5	ug/L	ND	EPA 524.2
Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,1,1,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
Chlorobenzene	0.5	ug/L	ND	EPA 524.2
Ethylbenzene	0.5	ug/L	ND	EPA 524.2

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	11023 LIBERTY RD	Project Identification:	Charles Service Station
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	7/14/2022	Client Telephone:	
Date Received:	7/14/2022	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	7/14/2022	Lab File:	71422A009

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	0.5	ug/L	ND	EPA 524.2
Bromoform	0.5	ug/L	ND	EPA 524.2
Styrene	0.5	ug/L	ND	EPA 524.2
o-Xylene	0.5	ug/L	ND	EPA 524.2
1,1,2,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichloropropane	0.5	ug/L	ND	EPA 524.2
Isopropylbenzene	0.5	ug/L	ND	EPA 524.2
Bromobenzene	0.5	ug/L	ND	EPA 524.2
n-Propylbenzene	0.5	ug/L	ND	EPA 524.2
2-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
4-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
1,3,5-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
tert-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2,4-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
sec-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,3-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,4-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
p-iso-Propyltoluene	0.5	ug/L	ND	EPA 524.2
n-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dibromo-3-chloropropane	0.5	ug/L	ND	EPA 524.2
1,2,4-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2
Naphthalene	0.5	ug/L	ND	EPA 524.2
Hexachlorobutadiene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2

SURROGATE SPIKE

1,2-Dichloroethane-d4	%	109	EPA 524.2
Dibromofluoromethane	%	105	EPA 524.2
Toluene-d8	%	92	EPA 524.2
Bromofluorobenzene	%	101	EPA 524.2

MDE Drinking Water Supply Laboratory Certification #333

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	TRIP BLANK	Project Identification:	Charles Service Station
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	7/14/2022	Client Telephone:	
Date Received:	7/14/2022	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	7/14/2022	Lab File:	71422A008

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	0.5	ug/L	ND	EPA 524.2
Chloromethane	0.5	ug/L	ND	EPA 524.2
Vinyl Chloride	0.5	ug/L	ND	EPA 524.2
Bromomethane	0.5	ug/L	ND	EPA 524.2
Chloroethane	0.5	ug/L	ND	EPA 524.2
Trichlorofluoromethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloroethene	0.5	ug/L	ND	EPA 524.2
tert-Butyl Alcohol (TBA)	10	ug/L	ND	EPA 524.2
Methylene Chloride	0.5	ug/L	ND	EPA 524.2
trans-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Methyl tert-Butyl Ether (MtBE)	0.5	ug/L	ND	EPA 524.2
1,1-Dichloroethane	0.5	ug/L	ND	EPA 524.2
Diisopropyl Ether (DIPE)	0.5	ug/L	ND	EPA 524.2
cis-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Bromochloromethane	0.5	ug/L	ND	EPA 524.2
Chloroform	0.5	ug/L	ND	EPA 524.2
2,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Ethyl tert-Butyl Ether (EtBE)	0.5	ug/L	ND	EPA 524.2
1,2-Dichloroethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Alcohol (TAA)	10	ug/L	ND	EPA 524.2
1,1,1-Trichloroethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloropropene	0.5	ug/L	ND	EPA 524.2
Carbon tetrachloride	0.5	ug/L	ND	EPA 524.2
Benzene	0.5	ug/L	ND	EPA 524.2
tert-Amyl Methyl Ether (TAME)	0.5	ug/L	ND	EPA 524.2
Dibromomethane	0.5	ug/L	ND	EPA 524.2
1,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Trichloroethene	0.5	ug/L	ND	EPA 524.2
Bromodichloromethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Ethyl Ether (TAEE)	0.5	ug/L	ND	EPA 524.2
cis-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
trans-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
1,1,2-Trichloroethane	0.5	ug/L	ND	EPA 524.2
Toluene	0.5	ug/L	ND	EPA 524.2
1,3-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Dibromochloromethane	0.5	ug/L	ND	EPA 524.2
1,2-Dibromoethane	0.5	ug/L	ND	EPA 524.2
Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,1,1,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
Chlorobenzene	0.5	ug/L	ND	EPA 524.2
Ethylbenzene	0.5	ug/L	ND	EPA 524.2

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	TRIP BLANK	Project Identification:	Charles Service Station
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	7/14/2022	Client Telephone:	
Date Received:	7/14/2022	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	7/14/2022	Lab File:	71422A008

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	0.5	ug/L	ND	EPA 524.2
Bromoform	0.5	ug/L	ND	EPA 524.2
Styrene	0.5	ug/L	ND	EPA 524.2
o-Xylene	0.5	ug/L	ND	EPA 524.2
1,1,2,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichloropropane	0.5	ug/L	ND	EPA 524.2
Isopropylbenzene	0.5	ug/L	ND	EPA 524.2
Bromobenzene	0.5	ug/L	ND	EPA 524.2
n-Propylbenzene	0.5	ug/L	ND	EPA 524.2
2-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
4-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
1,3,5-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
tert-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2,4-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
sec-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,3-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,4-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
p-iso-Propyltoluene	0.5	ug/L	ND	EPA 524.2
n-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dibromo-3-chloropropane	0.5	ug/L	ND	EPA 524.2
1,2,4-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2
Naphthalene	0.5	ug/L	ND	EPA 524.2
Hexachlorobutadiene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2

SURROGATE SPIKE

1,2-Dichloroethane-d4	%	108	EPA 524.2
Dibromofluoromethane	%	107	EPA 524.2
Toluene-d8	%	91	EPA 524.2
Bromofluorobenzene	%	100	EPA 524.2

MDE Drinking Water Supply Laboratory Certification #333

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

1751-1 Pulaski Hwy., Havre de Grace, MD 21078-2207
 Phone: 410-939-5550 Fax: 410-939-5552
 www.AECEnviro.com

Chain of Custody Record

Client: Chris Brocato			Project Name: Charlie's Service Station				SDG#																													
Address:			Project Location: 11024 Liberty Rd. Randallstown, MD				Preservatives																													
			Phone:		Fax:																															
Contact:			Email:				<table border="1"> <tr> <th colspan="4">Requested Analysis</th> <th rowspan="2">Observation</th> </tr> <tr> <td>TPH</td> <td>VOCs</td> <td></td> <td></td> </tr> <tr> <td>GRO</td> <td>8260</td> <td>524.2</td> <td></td> <td rowspan="4">No Chlorine</td> </tr> <tr> <td>DRO</td> <td></td> <td></td> <td></td> </tr> <tr> <td>8015</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>				Requested Analysis				Observation	TPH	VOCs			GRO	8260	524.2		No Chlorine	DRO				8015							
Requested Analysis				Observation																																
TPH	VOCs																																			
GRO	8260	524.2		No Chlorine																																
DRO																																				
8015																																				
Sample By: Greg Beal			Receive Completed Report Via (Circle One) <input type="checkbox"/> U.S. Mail <input type="checkbox"/> Email <input type="checkbox"/> Fax																																	
Sample #	Sample ID	Date	Time	Matrix	pH																															
1	11024 Inf	07/14/22		Water	~2			X																												
2	11024 Int 1				~2			X																												
3	11024 Eff				~2			X																												
4	11023 Liberty Rd				~2			X																												
5	Trip				~2			X																												
6																																				
7																																				
8																																				
9																																				
10																																				
Relinquished/Received By Signature			Date	Time	Delivery Method		Lab Use Only																													
Relinquished By: <i>[Signature]</i>			7/14/22				Temp of Cooler																													
Received By: <i>[Signature]</i>							24°C																													
Relinquished By: <i>[Signature]</i>							Ice Present <input checked="" type="checkbox"/> (Y/N)																													
Received By: <i>[Signature]</i>			7/14/22				Custody Seal <input checked="" type="checkbox"/> (Y/N)																													
Relinquished By:							Date of Extraction N/A																													
Received By:																																				
Matrix Codes: SD = Soil, GW = Ground Water, WW = Waste Water, VP = Vapor, SL = Sludge, DW = Drinking Water, O = Other																																				
Special Instructions / Comments / QC Requirements:						Turn Around Time: <input checked="" type="checkbox"/> (STD) 1 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> Other																														

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	4507 Wards Chap INF	Project Identification:	Charlies Service Station
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	7/14/2022	Client Telephone:	
Date Received:	7/14/2022	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	7/22/2022	Lab File:	72222A009

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	0.5	ug/L	ND	EPA 524.2
Chloromethane	0.5	ug/L	ND	EPA 524.2
Vinyl Chloride	0.5	ug/L	ND	EPA 524.2
Bromomethane	0.5	ug/L	ND	EPA 524.2
Chloroethane	0.5	ug/L	ND	EPA 524.2
Trichlorofluoromethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloroethene	0.5	ug/L	ND	EPA 524.2
tert-Butyl Alcohol (TBA)	10	ug/L	238	EPA 524.2
Methylene Chloride	0.5	ug/L	ND	EPA 524.2
trans-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Methyl tert-Butyl Ether (MtBE)	0.5	ug/L	1298	EPA 524.2
1,1-Dichloroethane	0.5	ug/L	ND	EPA 524.2
Diisopropyl Ether (DIPE)	0.5	ug/L	8.35	EPA 524.2
cis-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Bromochloromethane	0.5	ug/L	ND	EPA 524.2
Chloroform	0.5	ug/L	ND	EPA 524.2
2,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Ethyl tert-Butyl Ether (EtBE)	0.5	ug/L	ND	EPA 524.2
1,2-Dichloroethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Alcohol (TAA)	10	ug/L	ND	EPA 524.2
1,1,1-Trichloroethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloropropene	0.5	ug/L	ND	EPA 524.2
Carbon tetrachloride	0.5	ug/L	ND	EPA 524.2
Benzene	0.5	ug/L	ND	EPA 524.2
tert-Amyl Methyl Ether (TAME)	0.5	ug/L	12.1	EPA 524.2
Dibromomethane	0.5	ug/L	ND	EPA 524.2
1,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Trichloroethene	0.5	ug/L	ND	EPA 524.2
Bromodichloromethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Ethyl Ether (TAEE)	0.5	ug/L	ND	EPA 524.2
cis-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
trans-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
1,1,2-Trichloroethane	0.5	ug/L	ND	EPA 524.2
Toluene	0.5	ug/L	ND	EPA 524.2
1,3-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Dibromochloromethane	0.5	ug/L	ND	EPA 524.2
1,2-Dibromoethane	0.5	ug/L	ND	EPA 524.2
Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,1,1,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
Chlorobenzene	0.5	ug/L	ND	EPA 524.2
Ethylbenzene	0.5	ug/L	ND	EPA 524.2

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	4507 Wards Chap INF	Project Identification:	Charlies Service Station
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	7/14/2022	Client Telephone:	
Date Received:	7/14/2022	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	7/22/2022	Lab File:	72222A009

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	0.5	ug/L	ND	EPA 524.2
Bromoform	0.5	ug/L	ND	EPA 524.2
Styrene	0.5	ug/L	ND	EPA 524.2
o-Xylene	0.5	ug/L	ND	EPA 524.2
1,1,2,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichloropropane	0.5	ug/L	ND	EPA 524.2
Isopropylbenzene	0.5	ug/L	ND	EPA 524.2
Bromobenzene	0.5	ug/L	ND	EPA 524.2
n-Propylbenzene	0.5	ug/L	ND	EPA 524.2
2-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
4-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
1,3,5-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
tert-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2,4-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
sec-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,3-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,4-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
p-iso-Propyltoluene	0.5	ug/L	ND	EPA 524.2
n-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dibromo-3-chloropropane	0.5	ug/L	ND	EPA 524.2
1,2,4-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2
Naphthalene	0.5	ug/L	ND	EPA 524.2
Hexachlorobutadiene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2

SURROGATE SPIKE

1,2-Dichloroethane-d4	%	106	EPA 524.2
Dibromofluoromethane	%	104	EPA 524.2
Toluene-d8	%	92	EPA 524.2
Bromofluorobenzene	%	100	EPA 524.2

MDE Drinking Water Supply Laboratory Certification #333

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	4507 Wards Chap INT 1	Project Identification:	Charlies Service Station
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	7/14/2022	Client Telephone:	
Date Received:	7/14/2022	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	7/22/2022	Lab File:	72222A008

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	0.5	ug/L	ND	EPA 524.2
Chloromethane	0.5	ug/L	ND	EPA 524.2
Vinyl Chloride	0.5	ug/L	ND	EPA 524.2
Bromomethane	0.5	ug/L	ND	EPA 524.2
Chloroethane	0.5	ug/L	ND	EPA 524.2
Trichlorofluoromethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloroethene	0.5	ug/L	ND	EPA 524.2
tert-Butyl Alcohol (TBA)	10	ug/L	11.6	EPA 524.2
Methylene Chloride	0.5	ug/L	ND	EPA 524.2
trans-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Methyl tert-Butyl Ether (MtBE)	0.5	ug/L	1.63	EPA 524.2
1,1-Dichloroethane	0.5	ug/L	ND	EPA 524.2
Diisopropyl Ether (DIPE)	0.5	ug/L	ND	EPA 524.2
cis-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Bromochloromethane	0.5	ug/L	ND	EPA 524.2
Chloroform	0.5	ug/L	ND	EPA 524.2
2,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Ethyl tert-Butyl Ether (EtBE)	0.5	ug/L	ND	EPA 524.2
1,2-Dichloroethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Alcohol (TAA)	10	ug/L	ND	EPA 524.2
1,1,1-Trichloroethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloropropene	0.5	ug/L	ND	EPA 524.2
Carbon tetrachloride	0.5	ug/L	ND	EPA 524.2
Benzene	0.5	ug/L	ND	EPA 524.2
tert-Amyl Methyl Ether (TAME)	0.5	ug/L	ND	EPA 524.2
Dibromomethane	0.5	ug/L	ND	EPA 524.2
1,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Trichloroethene	0.5	ug/L	ND	EPA 524.2
Bromodichloromethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Ethyl Ether (TAEE)	0.5	ug/L	ND	EPA 524.2
cis-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
trans-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
1,1,2-Trichloroethane	0.5	ug/L	ND	EPA 524.2
Toluene	0.5	ug/L	ND	EPA 524.2
1,3-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Dibromochloromethane	0.5	ug/L	ND	EPA 524.2
1,2-Dibromoethane	0.5	ug/L	ND	EPA 524.2
Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,1,1,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
Chlorobenzene	0.5	ug/L	ND	EPA 524.2
Ethylbenzene	0.5	ug/L	ND	EPA 524.2

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	4507 Wards Chap INT 1	Project Identification:	Charlies Service Station
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	7/14/2022	Client Telephone:	
Date Received:	7/14/2022	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	7/22/2022	Lab File:	72222A008

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	0.5	ug/L	ND	EPA 524.2
Bromoform	0.5	ug/L	ND	EPA 524.2
Styrene	0.5	ug/L	ND	EPA 524.2
o-Xylene	0.5	ug/L	ND	EPA 524.2
1,1,2,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichloropropane	0.5	ug/L	ND	EPA 524.2
Isopropylbenzene	0.5	ug/L	ND	EPA 524.2
Bromobenzene	0.5	ug/L	ND	EPA 524.2
n-Propylbenzene	0.5	ug/L	ND	EPA 524.2
2-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
4-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
1,3,5-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
tert-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2,4-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
sec-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,3-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,4-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
p-iso-Propyltoluene	0.5	ug/L	ND	EPA 524.2
n-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dibromo-3-chloropropane	0.5	ug/L	ND	EPA 524.2
1,2,4-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2
Naphthalene	0.5	ug/L	ND	EPA 524.2
Hexachlorobutadiene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2

SURROGATE SPIKE

1,2-Dichloroethane-d4	%	111	EPA 524.2
Dibromofluoromethane	%	104	EPA 524.2
Toluene-d8	%	92	EPA 524.2
Bromofluorobenzene	%	100	EPA 524.2

MDE Drinking Water Supply Laboratory Certification #333

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	4507 Wards Chap EFF	Project Identification:	Charlies Service Station
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	7/14/2022	Client Telephone:	
Date Received:	7/14/2022	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	7/22/2022	Lab File:	72222A007

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	0.5	ug/L	ND	EPA 524.2
Chloromethane	0.5	ug/L	ND	EPA 524.2
Vinyl Chloride	0.5	ug/L	ND	EPA 524.2
Bromomethane	0.5	ug/L	ND	EPA 524.2
Chloroethane	0.5	ug/L	ND	EPA 524.2
Trichlorofluoromethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloroethene	0.5	ug/L	ND	EPA 524.2
tert-Butyl Alcohol (TBA)	10	ug/L	ND	EPA 524.2
Methylene Chloride	0.5	ug/L	ND	EPA 524.2
trans-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Methyl tert-Butyl Ether (MtBE)	0.5	ug/L	ND	EPA 524.2
1,1-Dichloroethane	0.5	ug/L	ND	EPA 524.2
Diisopropyl Ether (DIPE)	0.5	ug/L	ND	EPA 524.2
cis-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Bromochloromethane	0.5	ug/L	ND	EPA 524.2
Chloroform	0.5	ug/L	ND	EPA 524.2
2,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Ethyl tert-Butyl Ether (EtBE)	0.5	ug/L	ND	EPA 524.2
1,2-Dichloroethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Alcohol (TAA)	10	ug/L	ND	EPA 524.2
1,1,1-Trichloroethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloropropene	0.5	ug/L	ND	EPA 524.2
Carbon tetrachloride	0.5	ug/L	ND	EPA 524.2
Benzene	0.5	ug/L	ND	EPA 524.2
tert-Amyl Methyl Ether (TAME)	0.5	ug/L	ND	EPA 524.2
Dibromomethane	0.5	ug/L	ND	EPA 524.2
1,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Trichloroethene	0.5	ug/L	ND	EPA 524.2
Bromodichloromethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Ethyl Ether (TAEE)	0.5	ug/L	ND	EPA 524.2
cis-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
trans-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
1,1,2-Trichloroethane	0.5	ug/L	ND	EPA 524.2
Toluene	0.5	ug/L	ND	EPA 524.2
1,3-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Dibromochloromethane	0.5	ug/L	ND	EPA 524.2
1,2-Dibromoethane	0.5	ug/L	ND	EPA 524.2
Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,1,1,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
Chlorobenzene	0.5	ug/L	ND	EPA 524.2
Ethylbenzene	0.5	ug/L	ND	EPA 524.2

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	4507 Wards Chap EFF	Project Identification:	Charlies Service Station
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	7/14/2022	Client Telephone:	
Date Received:	7/14/2022	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	7/22/2022	Lab File:	72222A007

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	0.5	ug/L	ND	EPA 524.2
Bromoform	0.5	ug/L	ND	EPA 524.2
Styrene	0.5	ug/L	ND	EPA 524.2
o-Xylene	0.5	ug/L	ND	EPA 524.2
1,1,2,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichloropropane	0.5	ug/L	ND	EPA 524.2
Isopropylbenzene	0.5	ug/L	ND	EPA 524.2
Bromobenzene	0.5	ug/L	ND	EPA 524.2
n-Propylbenzene	0.5	ug/L	ND	EPA 524.2
2-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
4-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
1,3,5-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
tert-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2,4-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
sec-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,3-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,4-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
p-iso-Propyltoluene	0.5	ug/L	ND	EPA 524.2
n-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dibromo-3-chloropropane	0.5	ug/L	ND	EPA 524.2
1,2,4-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2
Naphthalene	0.5	ug/L	ND	EPA 524.2
Hexachlorobutadiene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2

SURROGATE SPIKE

1,2-Dichloroethane-d4	%	110	EPA 524.2
Dibromofluoromethane	%	106	EPA 524.2
Toluene-d8	%	92	EPA 524.2
Bromofluorobenzene	%	100	EPA 524.2

MDE Drinking Water Supply Laboratory Certification #333

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	TRIP BLANK	Project Identification:	Charles Service Station
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	7/14/2022	Client Telephone:	
Date Received:	7/14/2022	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	7/22/2022	Lab File:	72222A006

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	0.5	ug/L	ND	EPA 524.2
Chloromethane	0.5	ug/L	ND	EPA 524.2
Vinyl Chloride	0.5	ug/L	ND	EPA 524.2
Bromomethane	0.5	ug/L	ND	EPA 524.2
Chloroethane	0.5	ug/L	ND	EPA 524.2
Trichlorofluoromethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloroethene	0.5	ug/L	ND	EPA 524.2
tert-Butyl Alcohol (TBA)	10	ug/L	ND	EPA 524.2
Methylene Chloride	0.5	ug/L	ND	EPA 524.2
trans-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Methyl tert-Butyl Ether (MtBE)	0.5	ug/L	ND	EPA 524.2
1,1-Dichloroethane	0.5	ug/L	ND	EPA 524.2
Diisopropyl Ether (DIPE)	0.5	ug/L	ND	EPA 524.2
cis-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Bromochloromethane	0.5	ug/L	ND	EPA 524.2
Chloroform	0.5	ug/L	ND	EPA 524.2
2,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Ethyl tert-Butyl Ether (EtBE)	0.5	ug/L	ND	EPA 524.2
1,2-Dichloroethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Alcohol (TAA)	10	ug/L	ND	EPA 524.2
1,1,1-Trichloroethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloropropene	0.5	ug/L	ND	EPA 524.2
Carbon tetrachloride	0.5	ug/L	ND	EPA 524.2
Benzene	0.5	ug/L	ND	EPA 524.2
tert-Amyl Methyl Ether (TAME)	0.5	ug/L	ND	EPA 524.2
Dibromomethane	0.5	ug/L	ND	EPA 524.2
1,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Trichloroethene	0.5	ug/L	ND	EPA 524.2
Bromodichloromethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Ethyl Ether (TAEE)	0.5	ug/L	ND	EPA 524.2
cis-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
trans-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
1,1,2-Trichloroethane	0.5	ug/L	ND	EPA 524.2
Toluene	0.5	ug/L	ND	EPA 524.2
1,3-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Dibromochloromethane	0.5	ug/L	ND	EPA 524.2
1,2-Dibromoethane	0.5	ug/L	ND	EPA 524.2
Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,1,1,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
Chlorobenzene	0.5	ug/L	ND	EPA 524.2
Ethylbenzene	0.5	ug/L	ND	EPA 524.2

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

Certificate of Analysis

Sample Identification:	TRIP BLANK	Project Identification:	Charles Service Station
MATRIX:	water	Client Identification:	CHRIS BROCATO
Sample Date:	7/14/2022	Client Telephone:	
Date Received:	7/14/2022	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	7/22/2022	Lab File:	72222A006

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	0.5	ug/L	ND	EPA 524.2
Bromoform	0.5	ug/L	ND	EPA 524.2
Styrene	0.5	ug/L	ND	EPA 524.2
o-Xylene	0.5	ug/L	ND	EPA 524.2
1,1,2,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichloropropane	0.5	ug/L	ND	EPA 524.2
Isopropylbenzene	0.5	ug/L	ND	EPA 524.2
Bromobenzene	0.5	ug/L	ND	EPA 524.2
n-Propylbenzene	0.5	ug/L	ND	EPA 524.2
2-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
4-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
1,3,5-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
tert-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2,4-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
sec-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,3-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,4-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
p-iso-Propyltoluene	0.5	ug/L	ND	EPA 524.2
n-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dibromo-3-chloropropane	0.5	ug/L	ND	EPA 524.2
1,2,4-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2
Naphthalene	0.5	ug/L	ND	EPA 524.2
Hexachlorobutadiene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2

SURROGATE SPIKE

1,2-Dichloroethane-d4	%	110	EPA 524.2
Dibromofluoromethane	%	106	EPA 524.2
Toluene-d8	%	90	EPA 524.2
Bromofluorobenzene	%	99	EPA 524.2

MDE Drinking Water Supply Laboratory Certification #333

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

1751-1 Pulaski Hwy., Havre de Grace, MD 21078-2207
 Phone: 410-939-5550 Fax: 410-939-5552
 www.AECEnviro.com

Chain of Custody Record

Client: Chris Brocato			Project Name: Charlie's Service Station			SDG#					
Address:			Project Location: 11024 Liberty Rd. Randallstown, MD			Preservatives					
Contact:			Phone: Fax:			Requested Analysis					
Sample By: Greg Beal			Email:			Observation					
			Receive Completed Report Via (Circle One) U.S. Mail Email Fax			TPH	VOCs				
						GRO	8260	524.2			
						DRO					
						8015					
Sample #	Sample ID	Date	Time	Matrix	pH						
1	4507 Wards Chapel Inf	07/15/22		Water	6.2			X			no chlorine
2	4507 Int 1				6.2			X			
3	4507 Eff				6.2			X			
4	Trip				6.2			X			
5								X			
6											
7											
8											
9											
10											
Relinquished/Received By Signature		Date	Time	Delivery Method		Lab Use Only					
Relinquished By: <i>Greg Beal</i>		7/15/22				Temp of Cooler					
Received By: <i>Greg Beal</i>						24°C					
Relinquished By: <i>[Signature]</i>						Ice Present <input checked="" type="radio"/> (Y/N)					
Received By: <i>[Signature]</i>		7/15/22				Custody Seal <input checked="" type="radio"/> (Y/N)					
Relinquished By: <i>[Signature]</i>						Date of Extraction					
Received By: <i>[Signature]</i>						n/a					
Matrix Codes: SO = Soil, GW = Ground Water, WW = Waste Water, VP = Vapor, SL = Sludge, DW = Drinking Water, O = Other											
Special Instructions / Comments / QC Requirements:						Turn Around Time: <input checked="" type="radio"/> STD 1 Day 2 Day 3 Day Other					