



Advanced Environmental Concepts, Inc.

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Q4 2023 Monitoring Well Sampling Report

Site Location:

High's 98
13522 Long Green Pike
Baldwin, MD 21013

Facility I.D. No. 11022

Prepared For:

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SIGNATURE SHEET

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Table of Contents

1.0 Introduction	2
1.1 Purpose	2
2.0 Groundwater Sampling & Methods	2
2.1 Monitoring Well Sampling	2
2.2 Domestic Supply Well Sampling	2
3.0 Results of Water Sampling	2
3.1 Groundwater Elevation	2
3.2 Monitoring Well Sampling Results	2
3.3 Domestic Well Sampling Results	3
4.0 Future Activities	3
5.0 Limitations	3
6.0 Appendices	3
Appendix A	4
Site Maps	4
Appendix B	5
Groundwater Gauging & Analytical Tables	5
Appendix C	6
Report of Analysis & Chain of Custody Record	6

1.0 Introduction

1.1 Purpose

This monitoring well (MW) sampling report has been prepared to satisfy the requirements set forth by the Maryland Department of the Environment (MDE) for the High's of Baltimore Store number 98 which is located at 13522 Long Green Pike Baldwin, MD 21013 referred to herein as the "site".

2.0 Groundwater Sampling & Methods

2.1 Monitoring Well Sampling

On 12/20/2023 AEC personnel arrived on site to gauge and sample site monitoring wells (MWs) and tank field (TF) monitoring pipes. Prior to sampling, each well was gauged for presence/absence of liquid phase hydrocarbons (LPH) as well as depth to groundwater with an electronic oil/water interface meter. LPH was not present in any of the site MWs or TFs. After gauging, each well was purged a total of three well volumes of water. Purged groundwater was treated with activated carbon prior to being discharged to the ground. After purging, groundwater was allowed to recover to a minimum of 90% pre purge levels prior to sample collection. Groundwater samples were collected using pre-packaged, single use, disposable bailers and placed in laboratory supplied VOAs and then placed in a cooler with ice and chain of custody record for delivery to the laboratory.

Groundwater samples collected were delivered to AEC's Laboratory. All samples were analyzed for volatile organic compounds (VOCs) by EPA Method 8260 and for total petroleum hydrocarbons - diesel and gasoline range organics (TPH-DRO/GRO) by EPA Method 8015.

2.2 Domestic Supply Well Sampling

On 12/20/2023 samples were collected from the site's domestic supply well (DSW). The samples were collected using standard sampling procedure by an MDE certified drinking water sampler.

DSW samples collected during this sampling event were delivered to AEC's laboratory to be analyzed for VOCs by EPA Method 524.2.

3.0 Results of Water Sampling

3.1 Groundwater Elevation

Groundwater elevation observed during the 12/20/2023 sampling event ranged from 466.79 feet in MW-1(Lowest) to 467.22 in MW-3 (Highest). Based on this data, groundwater flow on site is to the west. A groundwater elevation contour map can be found in Appendix A.

3.2 Monitoring Well Sampling Results

Method detectable concentrations of VOCs were observed in the groundwater samples collected on 12/20/2023 from MW-3.

Analytical results from the monitoring well sampling events are summarized in a monitoring well analytical table which can be found in Appendix B. A full Report of Analysis and Chain of Custody Record can be found in Appendix C.

3.3 Domestic Well Sampling Results

Method detectable concentrations were not observed in the domestic supply well sample collected and submitted for analysis on 12/20/2023. Results from the domestic supply well sampling event are summarized in a table format and can be found in Appendix B. A full Report of Analysis and Chain of Custody Record can be found in Appendix C.

4.0 Future Activities

AEC will complete the Q1 quarterly sampling of site's groundwater at the Highs # 98 store location per MDE requirements.

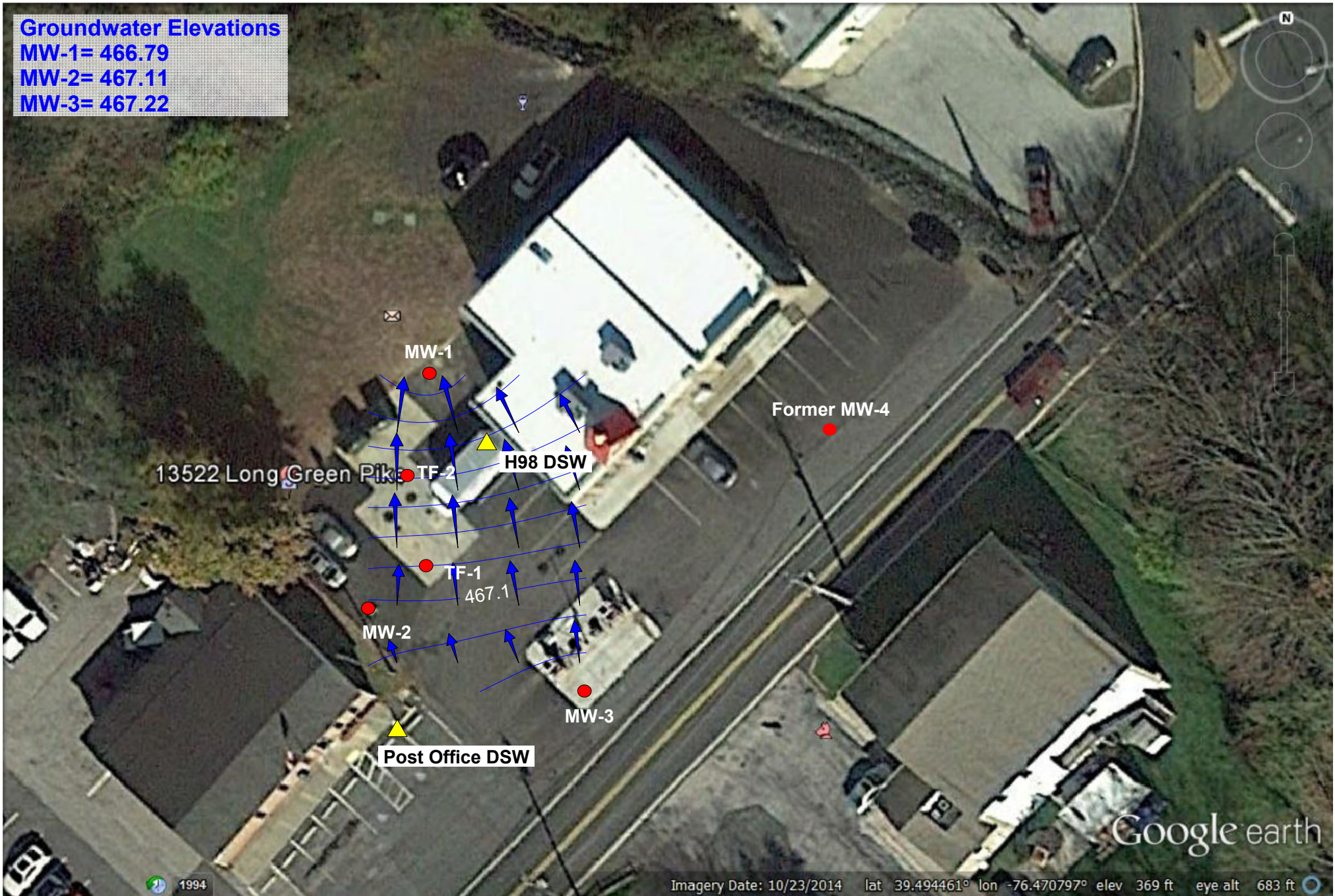
5.0 Limitations

The scope of work is limited to the activities and results contained in this report. Industry standard hydro-geologic investigative procedures and protocol were used in order to complete the scope of work. No other warranty expressed or implied is made.

6.0 Appendices

Appendix A
Site Maps

Groundwater Elevations
MW-1= 466.79
MW-2= 467.11
MW-3= 467.22



Appendix B
Groundwater Gauging & Analytical Tables

Historical Well Gauging Table
 Highs Store 98
 13522 Long Green Pike, Baldwin
 Facility 11022
 MDE Case No. 17-0166BA

MW ID	Date	Depth to Product (ft)	Depth to Groundwater (ft)	Product Thickness (ft)	Groundwater Elevation (ft)
MW-1	7/18/2007	NA	NA	ND	NA
	2/29/2008	NA	NA	ND	NA
TOC Elevation = 472.62	8/24/2008	NA	NA	ND	NA
	2/26/2009	NA	NA	ND	NA
	2/25/2010	NA	NA	ND	NA
	5/31/2011	ND	5.80	ND	466.82
	1/18/2013	ND	5.89	ND	466.73
	10/22/2013	ND	7.62	ND	465.00
	9/29/2014	ND	7.90	ND	464.72
	9/10/2015	ND	7.22	ND	465.40
	10/15/2015	ND	6.90	ND	465.72
	11/16/2015	ND	7.29	ND	465.33
	9/15/2016	ND	8.49	ND	464.13
	9/16/2016	ND	8.52	ND	464.10
	9/22/2016	ND	8.48	ND	464.14
	9/29/2016	ND	8.21	ND	464.41
	10/6/2016	ND	8.17	ND	464.45
	10/13/2016	ND	8.14	ND	464.48
	10/21/2016	ND	8.16	ND	464.46
	10/26/2016	ND	8.80	ND	463.82
	12/1/2016	ND	8.50	ND	464.12
	2/2/2017	ND	7.76	ND	464.86
	3/29/2017	ND	7.76	ND	464.86
	4/7/2017	ND	5.85	ND	466.77
	5/12/2017	ND	6.53	ND	466.09
	6/9/2017	ND	7.07	ND	465.55
	7/20/2017	ND	8.03	ND	464.59
	8/8/2017	ND	6.79	ND	465.83
	9/21/2017	ND	7.72	ND	464.90
	10/2/2017	ND	8.20	ND	464.42
	10/5/2017	ND	8.24	ND	464.38
	10/13/2017	ND	8.44	ND	464.18
	10/18/2017	ND	8.23	ND	464.39
	10/31/2017	ND	8.18	ND	464.44
	11/7/2017	ND	8.16	ND	464.46
	11/28/2017	ND	8.20	ND	464.42
	2/28/2018	ND	6.13	ND	466.49
	5/29/2018	ND	5.20	ND	467.42
	7/23/2018	ND	5.60	ND	467.02
	8/16/2018	ND	5.62	ND	467.00
	9/24/2018	ND	4.90	ND	467.72
	10/15/2018	ND	5.75	ND	466.87
	11/12/2018	ND	5.31	ND	467.31
	12/7/2018	ND	5.26	ND	467.36
	2/22/2019	ND	6.01	ND	466.61
	1/30/2020	ND	6.02	ND	466.60
	1/6/2021	ND	5.48	ND	467.14
	1/10/2022	ND	5.53	ND	467.09
	1/10/2023	ND	6.47	ND	466.15
472.62	6/23/2023	ND	7.81	ND	464.81
	9/28/2023	ND	7.08	ND	465.54
	12/20/2023	ND	5.83	ND	466.79

Historical Well Gauging Table
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 13522 Long Green Pike, Baldwin
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MW ID	Date	Depth to Product (ft)	Depth to Groundwater (ft)	Product Thickness (ft)	Groundwater Elevation (ft)
MW-2	7/18/2007	NA	NA	ND	NA
TOC Elevation =	2/29/2008	NA	NA	ND	NA
471.13	8/24/2008	NA	NA	ND	NA
	2/26/2009	NA	NA	ND	NA
	2/25/2010	NA	NA	ND	NA
	5/31/2011	ND	5.68	ND	465.45
	1/18/2013	ND	4.15	ND	466.98
	10/22/2013	ND	5.83	ND	465.30
	9/29/2014	ND	5.98	ND	465.15
	9/10/2015	ND	5.79	ND	465.34
	10/15/2015	ND	5.48	ND	465.65
	11/16/2015	ND	5.90	ND	465.23
	9/15/2016	ND	6.82	ND	464.31
	9/16/2016	ND	7.21	ND	463.92
	9/22/2016	ND	6.80	ND	464.33
	9/29/2016	ND	6.41	ND	464.72
	10/6/2016	ND	6.29	ND	464.84
	10/13/2016	ND	6.22	ND	464.91
	10/21/2016	ND	6.23	ND	464.90
	10/26/2016	ND	7.50	ND	463.63
	12/1/2016	ND	6.63	ND	464.50
	2/2/2017	ND	6.33	ND	464.80
	3/29/2017	ND	6.33	ND	464.80
	4/7/2017	ND	4.50	ND	466.63
	5/12/2017	ND	5.11	ND	466.02
	6/9/2017	ND	5.59	ND	465.54
	7/20/2017	ND	6.76	ND	464.37
	8/8/2017	ND	5.32	ND	465.81
	9/21/2017	ND	6.32	ND	464.81
	10/2/2017	ND	6.82	ND	464.31
	10/5/2017	ND	6.92	ND	464.21
	10/13/2017	ND	7.03	ND	464.10
	10/18/2017	ND	6.85	ND	464.28
	10/31/2017	ND	6.82	ND	464.31
	11/7/2017	ND	6.80	ND	464.33
	11/28/2017	ND	6.86	ND	464.27
	5/29/2018	ND	4.82	ND	466.31
	5/29/2018	ND	3.91	ND	467.22
	7/23/2018	ND	4.40	ND	466.73
	8/16/2018	ND	4.15	ND	466.98
	9/24/2018	ND	3.45	ND	467.68
	10/15/2018	ND	4.4	ND	466.73
	11/12/2018	ND	3.72	ND	467.41
	12/7/2018	ND	4.12	ND	467.01
	2/22/2019	ND	3.67	ND	467.46
	1/30/2020	ND	4.69	ND	466.44
	1/6/2021	ND	4.11	ND	467.02
	1/10/2022	ND	4.17	ND	466.96
	1/10/2023	ND	5.14	ND	465.99
471.63	6/23/2023	ND	6.61	ND	465.02
	9/28/2023	ND	6.83	ND	464.80
	12/20/2023	ND	4.52	ND	467.11

Historical Well Gauging Table
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 MDE Case No. 17-0166BA

MW ID	Date	Depth to Product (ft)	Depth to Groundwater (ft)	Product Thickness (ft)	Groundwater Elevation (ft)
MW-3	7/18/2007	NA	NA	ND	NA
	2/29/2008	NA	NA	ND	NA
TOC Elevation = 471.33	8/24/2008	NA	NA	ND	NA
	2/26/2009	NA	NA	ND	NA
	2/25/2010	NA	NA	ND	NA
	5/31/2011	ND	4.69	ND	466.64
	1/18/2013	ND	4.24	ND	467.09
	10/22/2013	ND	5.63	ND	465.70
	9/29/2014	ND	5.84	ND	465.49
	9/10/2015	ND	5.23	ND	466.10
	10/15/2015	ND	4.02	ND	467.31
	11/16/2015	ND	4.48	ND	466.85
	9/15/2016	ND	5.37	ND	465.96
	9/16/2016	ND	6.34	ND	464.99
	9/22/2016	ND	5.37	ND	465.96
	9/29/2016	ND	5.08	ND	466.25
	10/6/2016	ND	5.03	ND	466.30
	10/13/2016	ND	4.99	ND	466.34
	10/21/2016	ND	4.92	ND	466.41
	10/26/2016	ND	6.71	ND	464.62
	12/1/2016	ND	6.54	ND	464.79
	2/2/2017	ND	5.64	ND	465.69
	3/29/2017	ND	5.64	ND	465.69
	4/7/2017	ND	3.95	ND	467.38
	5/12/2017	ND	3.88	ND	467.45
	6/9/2017	ND	4.15	ND	467.18
	7/20/2017	ND	5.22	ND	466.11
	8/8/2017	ND	3.88	ND	467.45
	9/21/2017	ND	5.65	ND	465.68
	10/2/2017	ND	6.09	ND	465.24
	10/5/2017	ND	6.12	ND	465.21
	10/13/2017	ND	5.87	ND	465.46
	10/18/2017	ND	6.12	ND	465.21
	10/31/2017	ND	6.09	ND	465.24
	11/7/2017	ND	6.07	ND	465.26
	11/28/2017	ND	6.15	ND	465.18
	2/28/2018	ND	4.34	ND	466.99
	5/29/2018	ND	3.19	ND	468.14
	7/23/2018	ND	3.70	ND	467.63
	8/16/2018	ND	4.32	ND	467.01
	9/24/2018	ND	3.93	ND	467.40
	10/15/2018	ND	5.20	ND	466.13
	11/12/2018	ND	3.15	ND	468.18
	12/7/2018	ND	3.66	ND	467.67
	2/22/2019	ND	3.31	ND	468.02
	1/30/2020	ND	4.16	ND	467.17
	1/6/2021	ND	3.56	ND	467.77
	1/10/2022	ND	4.02	ND	467.31
New Elevation 471.65	1/10/2023	ND	4.32	ND	467.01
	3/3/2003	ND	4.83	ND	466.82
	6/23/2023	ND	5.89	ND	465.76
	9/28/2023	ND	5.13	ND	466.52
	12/20/2023	ND	4.43	ND	467.22

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 13522 Long Green Pike, Baldwin
 Facility 11022
 MDE Case No. 17-0166BA

MW ID	Date	Depth to Product (ft)	Depth to Groundwater (ft)	Product Thickness (ft)	Groundwater Elevation (ft)
MW-4	1/18/2013	ND	5.06	ND	467.56
TOC Elevation = 472.00	10/22/2013	ND	6.62	ND	466.00
		Abandoned			
TF-1	7/18/2007	ND	NA	ND	NA
	2/29/2008	ND	NA	ND	NA
	8/24/2008	ND	NA	ND	NA
	2/26/2009	ND	NA	ND	NA
	5/31/2011	ND	5.23	ND	NA
	1/18/2013	ND	4.84	ND	NA
	9/10/2015	ND	7.66	ND	NA
	10/15/2015	ND	7.35	ND	NA
	11/16/2015	ND	7.47	ND	NA
	9/15/2016	8.50	8.55	0.05	NA
	9/16/2016	7.42	7.59	0.17	NA
TF-1	9/22/2016	ND	7.55	ND	NA
	9/29/2016	ND	7.02	ND	NA
	10/6/2016	ND	6.55	ND	NA
	10/13/2016	ND	7.50	ND	NA
	10/21/2016	ND	7.57	ND	NA
	10/26/2016	ND	7.74	ND	NA
	12/1/2016	8.59	8.61	0.02	NA
	2/2/2017	6.60	6.65	0.05	NA
	3/29/2017	6.60	6.65	0.05	NA
	4/7/2017	4.71	4.76	0.05	NA
	5/12/2017	5.81	5.89	0.08	NA
	6/9/2017	5.81	5.85	0.04	NA
	7/20/2017	6.47	6.50	0.03	NA
	8/8/2017	5.65	5.99	0.34	NA
	9/21/2017	6.55	6.97	0.42	NA
	10/2/2017	7.00	7.42	0.42	NA
	10/5/2017	7.14	7.22	0.08	NA
	10/13/2017	7.16	7.24	0.08	NA
	10/18/2017	8.25	8.26	0.01	NA
	10/31/2017	6.32	6.42	0.10	NA
	11/7/2017	ND	6.80	ND	NA
	11/28/2017	ND	7.01	ND	NA
	2/28/2018	ND	5.04	ND	NA
	5/29/2018	ND	4.09	ND	NA
	7/23/2018	ND	4.55	ND	NA
	8/16/2018	ND	5.72	ND	NA
	9/24/2018	ND	4.20	ND	NA
	10/15/2018	ND	4.60	ND	NA
	11/12/2018	ND	4.08	ND	NA
	12/7/2018	ND	4.01	ND	NA
	2/22/2019	ND	3.90	ND	NA
	1/30/2020	ND	4.84	ND	NA
	1/6/2021	ND	4.29	ND	NA
	1/10/2023	ND	4.87	ND	NA
	6/23/2023	ND	6.76	ND	NA
	9/28/2023	ND	7.04	ND	NA
	12/20/2023	ND	5.22	ND	NA

Historical Well Gauging Table
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 13522 Long Green Pike, Baldwin
 Facility 11022
 MDE Case No. 17-0166BA

MW ID	Date	Depth to Product (ft)	Depth to Groundwater (ft)	Product Thickness (ft)	Groundwater Elevation (ft)	
TF-2	7/18/2007	ND	NA	ND	NA	
	2/29/2008	ND	6.76	ND	NA	
	8/24/2008	ND	NA	ND	NA	
	2/26/2009	ND	NA	ND	NA	
	5/31/2011	ND	6.84	ND	NA	
	1/18/2013	ND	5.94	ND	NA	
	10/22/2013	ND	7.74	ND	NA	
	9/10/2015	Sheen	7.38	ND	NA	
	10/15/2015	ND	7.06	ND	NA	
	11/16/2015	ND	7.74	ND	NA	
	9/15/2016	8.47	8.59	0.12	NA	
	9/16/2016	8.53	8.70	0.17	NA	
	9/22/2016	ND	8.68	ND	NA	
	9/29/2016	ND	8.13	ND	NA	
	10/6/2016	ND	7.33	ND	NA	
	10/13/2016	ND	8.61	ND	NA	
	10/21/2016	ND	8.43	ND	NA	
	10/26/2016	ND	8.90	ND	NA	
	12/1/2016	7.48	7.50	0.02	NA	
	2/2/2017	7.70	7.79	0.09	NA	
	TF-2	3/29/2017	7.70	7.79	0.09	NA
		4/7/2017	5.84	5.89	0.05	NA
		5/12/2017	6.92	6.96	0.04	NA
6/9/2017		6.92	6.94	0.02	NA	
7/20/2017		7.70	7.71	0.01	NA	
8/8/2017		6.77	7.10	0.33	NA	
9/21/2017		7.66	8.03	0.37	NA	
10/2/2017		8.11	8.55	0.44	NA	
10/5/2017		8.26	8.34	0.08	NA	
10/13/2017		7.85	7.91	0.06	NA	
10/18/2017		7.12	7.17	0.05	NA	
10/31/2017		6.74	6.95	0.21	NA	
11/7/2017		ND	7.91	ND	NA	
11/28/2017		ND	8.24	ND	NA	
2/28/2018		ND	6.16	ND	NA	
5/29/2018		ND	4.15	ND	NA	
7/23/2018		ND	5.8	ND	NA	
8/16/2018		ND	4.51	ND	NA	
9/24/2018		ND	4.85	ND	NA	
10/15/2018		ND	5.70	ND	NA	
11/12/2018		ND	5.10	ND	NA	
12/7/2018		ND	5.23	ND	NA	
2/22/2019		ND	4.98	ND	NA	
1/30/2020	ND	5.97	ND	NA		
1/6/2021	ND	5.39	ND	NA		
1/10/2023	ND	5.48	ND	NA		
6/23/2023	ND	7.86	ND	NA		
9/28/2023	ND	7.97	ND	NA		
12/20/2023	ND	5.64	ND	NA		

ND - Non Detect
 NA - Not Applicable

High's of Baltimore Store 98
13522 Long Green Pike Baldwin MD
Historical Monitoring Well Sampling Data

MW ID	Date	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	Total BTEX	MTBE	TAA	TBA	TPH GRO	TPH DRO
MDE GNCS	NA	5	1,000	700	10,000	NA	20	NA	NA		
	10/2/2017	ND	ND	ND	ND	ND	ND	ND	ND		
	2/28/2018	ND	ND	ND	ND	ND	ND	ND	ND		
MW-3	5/29/2018	ND	ND	ND	ND	ND	ND	ND	ND		
	8/16/2018	ND	ND	ND	ND	ND	ND	ND	ND		
	11/12/2018	ND	ND	ND	ND	ND	ND	ND	ND		
	2/22/2019	ND	42.8	ND	ND	ND	ND	ND	89.5	174	< 40
	1/30/2020	< 5	< 5	< 5	< 5	< 5	< 5	< 50	< 50	< 40	< 40
	1/6/2021	< 5	< 5	< 5	< 5	< 5	< 5	< 50	< 50	< 40	< 40
Well Repair	1/10/2022	< 1	< 1	< 1	< 1	< 1	< 1	< 25	< 25	< 40	< 40
New Elevation	1/10/2023	2.68	2.24	3.68	2.92	11.5	< 1	< 25	< 25	336	< 40
471.65	3/3/2023	7.15	9.21	38.8	11.4	66.6	< 1	< 25	< 25	760	< 40
	3/31/2023	9.51	10.6	60.9	17.64	98.7	< 1	< 25	< 25	1820	< 40
	6/23/2023	4.16	2.33	< 1	6.7	13.2	< 1	< 25	< 25	345	< 40
	9/28/2023	1.45	31.5	11.1	60.8	104.9	< 1	< 25	< 25	230	< 40
	12/20/2023	< 1	3.33	1.3	6.89	11.5	< 1	< 25	< 25	214	< 40
MW-4	1/18/2013	510	7.26	31.2	29.9	578	392	NA	NA		
TOC Elevation =	10/22/2013	171	16.6	51.9	53.5	293	793	620	8980		
472.00			Abandoned								
TF-1	7/18/2007	NS	NS	NS	NS	NS	NS	NA	NA		
	2/29/2008	ND	2	ND	ND	2	ND	NA	NA		
	8/24/2008	ND	ND	ND	ND	ND	ND	NA	NA		
	2/26/2009	ND	ND	ND	ND	ND	14	NA	NA		
	5/31/2011	NS	NS	NS	NS	NS	NS	NA	NA		
	1/18/2013	ND	ND	ND	ND	ND	ND	NA	NA		
	9/10/2015	ND	ND	ND	ND	ND	ND	ND	ND		
	10/15/2015	NS	NS	NS	NS	NS	NS	NS	NS		
	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS		
	9/15/2016				LPH Identified as Weathered Gasoline						
	4/7/2017				LPH						
	7/20/2017				LPH						
	10/2/2017				LPH						
TF-2	7/18/2007	NS	NS	NS	NS	NS	NS	NA	NA		
	2/29/2008	ND	2	ND	ND	2	ND	NA	NA		
	8/24/2008	ND	ND	ND	ND	3	ND	NA	NA		

High's of Baltimore Store 98
13522 Long Green Pike Baldwin MD
Historical Monitoring Well Sampling Data

MW ID	Date	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	Total BTEX	MTBE	TAA	TBA	TPH GRO	TPH DRO
MDE GNCS	NA	5	1,000	700	10,000	NA	20	NA	NA		
	2/26/2009	ND	ND	ND	ND	ND	ND	NA	NA		
	5/31/2011	NS	NS	NS	NS	NS	NS	NA	NA		
TF-2	1/18/2013	ND	ND	ND	ND	ND	ND	NA	NA		
	10/22/2013	ND	ND	ND	ND	ND	ND	ND	ND		
	9/10/2015	ND	33.3	244	803	1080.3	ND	ND	ND		
	10/15/2015	ND	43.6	440	1256	1739.6	ND	ND	ND		
	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS		
	9/15/2016	LPH Identified as Weathered Gasoline									
	4/7/2017	LPH									
	7/20/2017	LPH									
	10/2/2017	LPH									
High's #98 DSW	10/22/2013	ND	ND	ND	ND	ND	ND	ND	ND		
	9/29/2014	ND	ND	ND	ND	ND	ND	ND	ND		
	9/10/2015	ND	ND	ND	ND	ND	ND	ND	ND		
	9/15/2016	ND	ND	ND	ND	ND	ND	ND	ND		
	10/2/2017	ND	ND	ND	ND	ND	ND	ND	ND		
	2/28/2018	ND	ND	ND	ND	ND	ND	ND	ND		
	5/29/2018	ND	ND	ND	ND	ND	ND	ND	ND		
	8/16/2018	ND	ND	ND	ND	ND	ND	ND	ND		
	11/12/2018	ND	ND	ND	ND	ND	ND	ND	ND		
	2/22/2019	ND	ND	ND	ND	ND	ND	ND	ND		
	1/30/2020	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10		
	1/6/2021	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10		
	1/10/2022	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10		
	2/9/2023	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10		
	9/28/2023	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10		
	12/20/2023	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10		
Post Office DSW	12/21/2016	ND	ND	ND	ND	ND	ND	ND	ND		
	10/2/2017	ND	ND	ND	ND	ND	ND	ND	ND		
ND = Not Detected	NS = Not sampled										
NG = No Guideline	at of the Environment Generic Numeric Cleanup Standards, February 2003										

Appendix C
Report of Analysis & Chain of Custody Record

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:	HIGHS 98 13522 Long Green
MATRIX:	water	Client Identification:	CARROLL FUEL
Sample Date:	12/20/2023	Client Telephone:	
Date Received:	12/22/2023	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	12/28/2023	Lab File:	122823A012

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	1.31	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:	HIGHS 98 13522 Long Green
MATRIX:	water	Client Identification:	CARROLL FUEL
Sample Date:	12/20/2023	Client Telephone:	
Date Received:	12/22/2023	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	12/28/2023	Lab File:	122823A012

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	0.5	ug/L	0.73	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	%	134	EPA 524.2
Dibromofluoromethane	%	105	EPA 524.2
Toluene-d8	%	108	EPA 524.2
Bromofluorobenzene	%	111	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:	DSW	Project Identification:	HIGHS 98 13522 Long Green
MATRIX:	water	Client Identification:	CARROLL FUEL
Sample Date:	12/20/2023	Client Telephone:	
Date Received:	12/22/2023	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	12/28/2023	Lab File:	122823A013

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:	DSW	Project Identification:	HIGHS 98 13522 Long Green
MATRIX:	water	Client Identification:	CARROLL FUEL
Sample Date:	12/20/2023	Client Telephone:	
Date Received:	12/22/2023	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	12/28/2023	Lab File:	122823A013

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	%	136	EPA 524.2
Dibromofluoromethane	%	107	EPA 524.2
Toluene-d8	%	111	EPA 524.2
Bromofluorobenzene	%	113	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:	MW-1	Project Identification:	HIGHS 98
MATRIX:	water	Client Identification:	CARROLL FUEL
Sample Date:	12/20/2023	Client Telephone:	
Date Received:	12/22/2023	Client Fax:	
Extraction Date:	12/23/2023	Analyst:	MM
Analysis Date:	12/26/2023	Lab File:	122623A012

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:	HIGHS 98
MATRIX:	water	Client Identification:	CARROLL FUEL
Sample Date:	12/20/2023	Client Telephone:	
Date Received:	12/22/2023	Client Fax:	
Extraction Date:	12/23/2023	Analyst:	MM
Analysis Date:	12/26/2023	Lab File:	122623A012

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		%	118	EPA 8260
Dibromofluoromethane		%	101	EPA 8260
TFT		%	109	EPA 8015B
Toluene-d8		%	110	EPA 8260
Bromofluorobenzene		%	104	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:	HIGHS 98
MATRIX:	water	Client Identification:	CARROLL FUEL
Sample Date:	12/20/2023	Client Telephone:	
Date Received:	12/22/2023	Client Fax:	
Extraction Date:	12/23/2023	Analyst:	MM
Analysis Date:	12/26/2023	Lab File:	122623A013

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-2	Project Identification:	HIGHS 98
MATRIX:	water	Client Identification:	CARROLL FUEL
Sample Date:	12/20/2023	Client Telephone:	
Date Received:	12/22/2023	Client Fax:	
Extraction Date:	12/23/2023	Analyst:	MM
Analysis Date:	12/26/2023	Lab File:	122623A013

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	%	124	EPA 8260
Dibromofluoromethane	%	105	EPA 8260
TFT	%	111	EPA 8015B
Toluene-d8	%	106	EPA 8260
Bromofluorobenzene	%	106	EPA 8260

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Certificate of Analysis

Sample Identification:	MW-3	Project Identification:	HIGHS 98
MATRIX:	water	Client Identification:	CARROLL FUEL
Sample Date:	12/20/2023	Client Telephone:	
Date Received:	12/22/2023	Client Fax:	
Extraction Date:	12/23/2023	Analyst:	MM
Analysis Date:	12/26/2023	Lab File:	122623A014

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	3.33	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	1.3	EPA 8260

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Certificate of Analysis

Sample Identification:	MW-3	Project Identification:	HIGHS 98
MATRIX:	water	Client Identification:	CARROLL FUEL
Sample Date:	12/20/2023	Client Telephone:	
Date Received:	12/22/2023	Client Fax:	
Extraction Date:	12/23/2023	Analyst:	MM
Analysis Date:	12/26/2023	Lab File:	122623A014

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	2	ug/L	4.98	EPA 8260
Bromoform	1	ug/L	ND	EPA 8260
Styrene	1	ug/L	ND	EPA 8260
o-Xylene	1	ug/L	1.91	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	1.08	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	1.21	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	214	EPA 8015B
TPH DRO	40	ug/L	ND	EPA 8015B

SURROGATE SPIKE

1,2-Dichloroethane-d4		%	125	EPA 8260
Dibromofluoromethane		%	103	EPA 8260
TFT		%	108	EPA 8015B
Toluene-d8		%	108	EPA 8260
Bromofluorobenzene		%	112	EPA 8260

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

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

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

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Chain of Custody Record

Page __ of __

Client: CIFCO			Project Name: H-98				SDG#					
Address: 14 Loveton circle Sparks MD			Project Location: 13522 Long Green Pike				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	OH						
1	1	Trip	12/20/23		0	22	/					no CHLORINE
2	2	DSLW	↓		DW	22	/					
3	↓	MW-1			GW		/	/				
4	↓	MW-2			↓		/	/				
5	↓	MW-3	↓		↓		/	/				
6												
7												
8												
9												
10												
Relinquished/Received By Signature			Date	Time	Delivery Method		Lab Use Only					
Relinquished By: <i>[Signature]</i>			12/20/23				Temp of Cooler 24°					
Received By:							Ice Present (Y/N)					
Relinquished By: <i>[Signature]</i>			12/22/23				Custody Seal (Y/N)					
Received By:							Date of Extraction 12/23/23					
Matrix Codes: SO = Soil, GW = Ground Water, WW = Waste Water, VP = Vapor, SL = Sludge, OW = Drinking Water, 0 = Other												
Special Instructions / Comments / QC Requirements:							Turn Around Time: STD 1 Day 2 Day 3Day Other					