



**Groundwater Monitoring Report  
Third Quarter 2016**

**Gasoline Fueling Station – Myersville Crown  
9486 Myersville Road  
Myersville, MD 21773  
MDE Case No. 90-1304FR  
MDE Facility ID No. 1139**

**AEC Project Number: 06-170**

**Prepared for:**

Maryland Department of the Environment  
Attn: Mr. Jim Richmond  
Oil Control Program  
1800 Washington Boulevard  
Baltimore, Maryland 21230-1719

And

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**Prepared by:**

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October 25, 2016

***ADVANTAGE ENVIRONMENTAL CONSULTANTS, LLC***

**Groundwater Monitoring Report – Third Quarter 2016**



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**Title:** Staff Scientist



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**Reviewed by:** Michael J. Robertson, P.G.  
**Title:** Principal

## Regulatory Information

Regulatory Agency: Maryland Department of the Environment  
Agency Contact: Jim Richmond  
Facility ID: 1139  
Current Case Status: Quarterly on-site potable well, groundwater monitoring well and tank field monitoring pipe sampling.  
Reporting Period: Third Quarter 2016

## General Site Information

Myersville Crown Contact: Ali Kazemzadeh  
Consultant Contact: Michael Robertson  
Facility Status: Operating fuel station  
Area Property Use: See Site Vicinity Map and Site Map (Figures 1 and 2)  
Monitoring Wells: MW-1, MW-2, MW-3R (not found), MW-4, EMW-1, EMW-2, TP-1A, and TP-2A  
Potable Wells: On-site: 9486 Myersville Road (unknown permit number)

## Activities Completed this Period

Sampling Date: September 30, 2016  
Wells Sampled: On-site potable well, MW-1, MW-2, MW-4, EMW-1, and EMW-2  
LPH Present: No  
Minimum/Maximum  
Groundwater Elevation: 61.83 feet / 90.95 feet  
Groundwater Flow Direction: Southwest

## Introduction

AEC has performed sampling of all monitoring wells and the Site's potable drinking water well in response to Section Five under Remedial Measures of the Consent Decree set forth under Civil Action No. 10-C-06-002007-1OC at the above-referenced Site. The tank field monitoring pipes were gauged and found to be dry. The following is a description of this work and the results of the recent sampling effort.

## Groundwater and Potable Well Sampling and Analysis

The groundwater well and potable water well samples (tank removal occurred in December 2014, with both tank pit wells being replaced), were collected on September 30, 2016 and analyzed according to Environmental Protection Agency (EPA) protocols. MW-3R was unable to be located due to newly placed gravel otop of it, and thus was not sampled. Figure 1 in Attachment A

illustrates the Site vicinity. A Site map illustrating the locations of all groundwater monitoring wells, tank field monitoring pipes, and the on-Site potable drinking water well is included as Figure 2 in Attachment A.

The five groundwater monitoring wells and the two tank field monitoring pipes were gauged the day of the sampling event. Figure 3 in Attachment A presents groundwater elevations and estimated groundwater flow direction at the Site on the day the monitoring wells were sampled. Table 1 in Attachment B summarizes current and historic groundwater gauging data.

Groundwater samples were collected from the monitoring wells by first gauging and purging at least three well volumes using a poly-vinyl chloride (PVC) bailer, which was decontaminated using Liquinox and a distilled water rinse prior to use in each well. After purging, each well was allowed to recharge for a period of at least one hour prior to sampling. The monitoring well samples were collected using a dedicated, disposable sampling bailer.

The on-Site potable water well was sampled by a Maryland Department of the Environment (MDE)-certified drinking water sampler on September 30, 2016. A cold water tap at the Site was run continuously for 15 minutes prior to the collection of the samples. A carbon filtration system, utilizing three carbon vessels installed in series, is used to ensure drinking water quality at the Site. AEC collected potable water samples from the influent (PW-1), first mid-point (PW-2A), second mid-point (PW-2B), and effluent (PW-3) ports of the filtration system.

The groundwater and drinking water samples were transferred directly into the appropriate sample containers. The sample from each location was placed in 40-milliliter glass jars with teflon-lined septa and one-liter amber glass jars and preserved with hydrochloric acid, as appropriate. Once collected, the samples were placed on ice in a cooler to await shipment to the laboratory.

The samples from the monitoring wells were analyzed for volatile organic compounds (VOCs) including fuel oxygenates per Environmental Protection Agency (EPA) Analytical Method 8260 and Total Petroleum Hydrocarbons (TPH) Gasoline-Range Organics (GRO) and Diesel-Range Organics (DRO) per EPA Analytical Method 8015B. The potable water samples were analyzed for TPH GRO and DRO per EPA Analytical Method 8015B and VOCs including fuel oxygenates per EPA Analytical Method 524.2.

## Results

Table 1 below summarizes the analytical results of the samples collected from the monitoring wells and tank field monitoring pipes. Note: only select analytes identified above the laboratory detection limits are included in Table 1.

**Table 1: Groundwater Analytical Results  
 9486 Myersville Road, Myersville, Maryland  
 Samples Collected – September 30, 2016**

Analyte	MW-1	MW-2	MW-3R	MW-4	TP-1A	TP-2A	EMW-1	EMW-2	Regulatory Standard
Methyl tert-butyl ether (MTBE)	BDL	BDL	NS	<b>29.8</b>	NS	NS	11.0	<b>537</b>	20
Isopropyl ether (DIPE)	BDL	BDL	NS	BDL	NS	NS	8.4	50.4	NRS
Benzene	BDL	BDL	NS	BDL	NS	NS	BDL	<b>32.0</b>	5
tert- Amyl alcohol (TAA)	BDL	BDL	NS	BDL	NS	NS	34.5	814	NRS
1,2,4-Trimethylbenzene	BDL	BDL	NS	BDL	NS	NS	BDL	36.3	NRS
tert-Butanol (TBA)	38.6	BDL	NS	32.2	NS	NS	643	8,790 E	NRS
TPH GRO	BDL	BDL	NS	BDL	NS	NS	<b>280</b>	<b>2,020</b>	47
TPH DRO	<b>400</b>	BDL	NS	BDL	NS	NS	<b>1,050</b>	<b>5,720</b>	47

Regulatory Standards taken from the *Maryland Environmental Assessment Technology for Leaking Underground Storage Tanks (MEAT)*, revised February 2003.

NRS = no regulatory standard

**Bold** font denotes a regulatory exceedance

All laboratory results and Regulatory Standards are reported in micrograms per liter (µg/L)

BDL = below analytical detection limits

NS = Not Sampled

J = Laboratory Estimated Value

E = The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate (CLP E-Flag)

\*- Regulatory standard set for sum of Total Xylenes. Xylene constituents are added together for comparison to standard.

The results of the groundwater analyses indicate that detectable concentrations of petroleum constituents exceeding their respective MDE groundwater cleanup standards are present in all monitoring wells sampled, with the exception of MW-2. Table 2 in Attachment B presents all historic groundwater and potable water analytical data obtained from the Site monitoring wells, tank field monitoring pipes, and potable water filtration system. The laboratory analytical report and chain-of custody documentation is presented in Attachment C.

Table 2 below summarizes the analytical results of the samples collected from the potable water well filtration system. Note: only analytes identified above the laboratory detection limits are included in Table 2.

**Table 2: Potable Water Filtration System Analytical Results  
 9486 Myersville Road, Myersville, Maryland  
 Samples Collected – September 30, 2016**

Analyte	PW-1	PW-2A	PW-2B	PW-3	Regulatory Standard
MTBE	<b>111</b>	<b>78.8</b>	BDL	BDL	20
tert-Butanol (TBA)	BDL	37.8	38.2	27.6	NRS
TPH GRO	<b>122</b>	<b>132</b>	BDL	BDL	47

Regulatory Standards taken from the *Maryland Environmental Assessment Technology for Leaking Underground Storage Tanks (MEAT)*, revised February 2003.

**Bold** font denotes a regulatory exceedance

All laboratory results and Regulatory Standards are reported in micrograms per liter (µg/L)

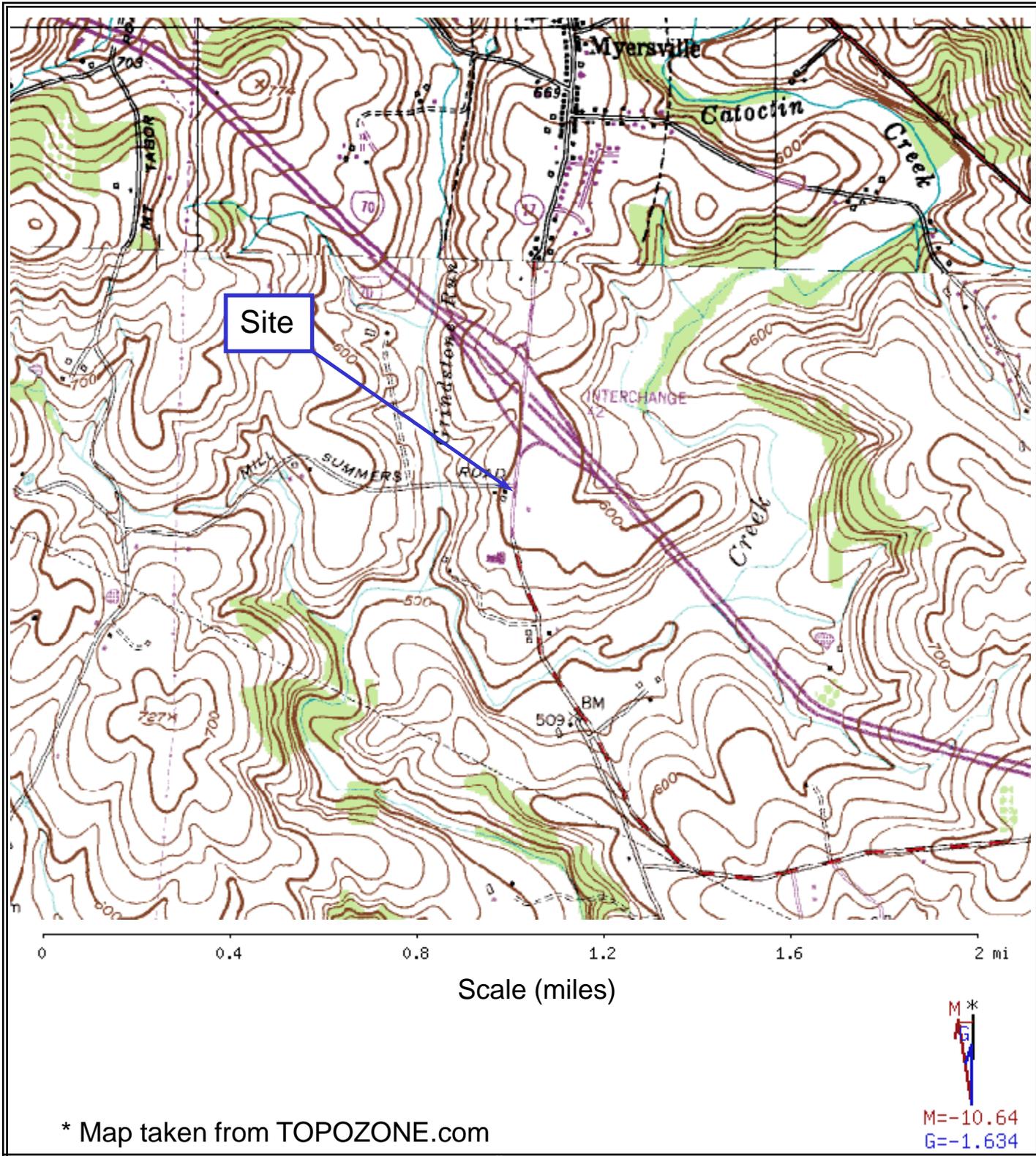
BDL = below analytical detection limits

NRS = no regulatory standard

The analytical results for the on-Site potable water well filtration system indicates that methyl tert-butyl ether (MTBE) and TPH GRO were above the MDE groundwater cleanup standards in samples PW-1 (Influent) and PW-2A (Mid-1). Tert-Butanol (TBA) was detected in samples PW-2A, PW-2B (Mid-2), and PW-3 (Effluent); however, there is no listed MDE groundwater cleanup standard for TBA. All other analytes were below laboratory detection limits (BDL) in all potable water samples.

**Attachment A**

**Figures**



**Figure 1 – Site Vicinity Map**  
 9486 Myersville Road  
 Myersville Crown Station  
 Myersville, Maryland 21773

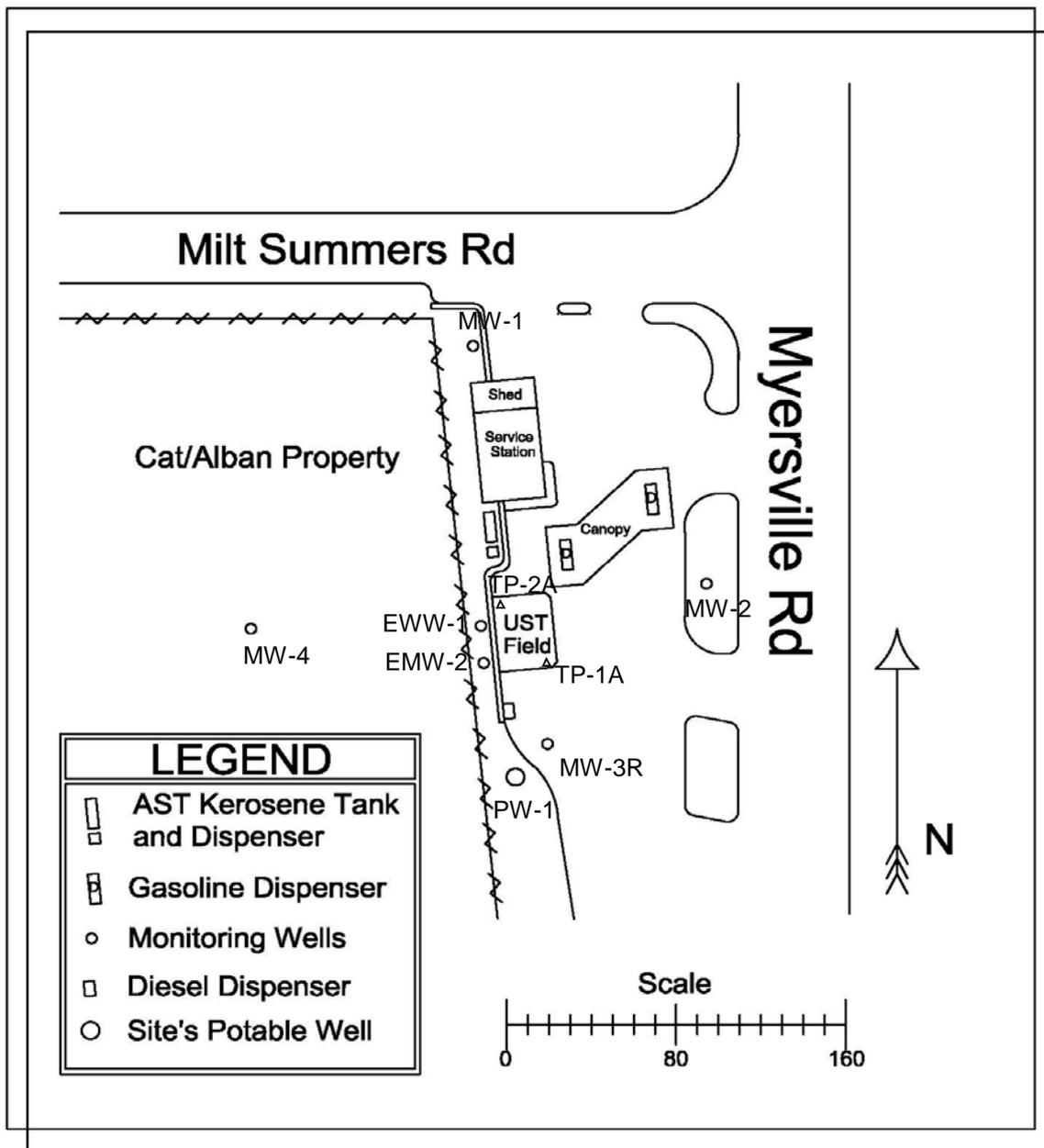


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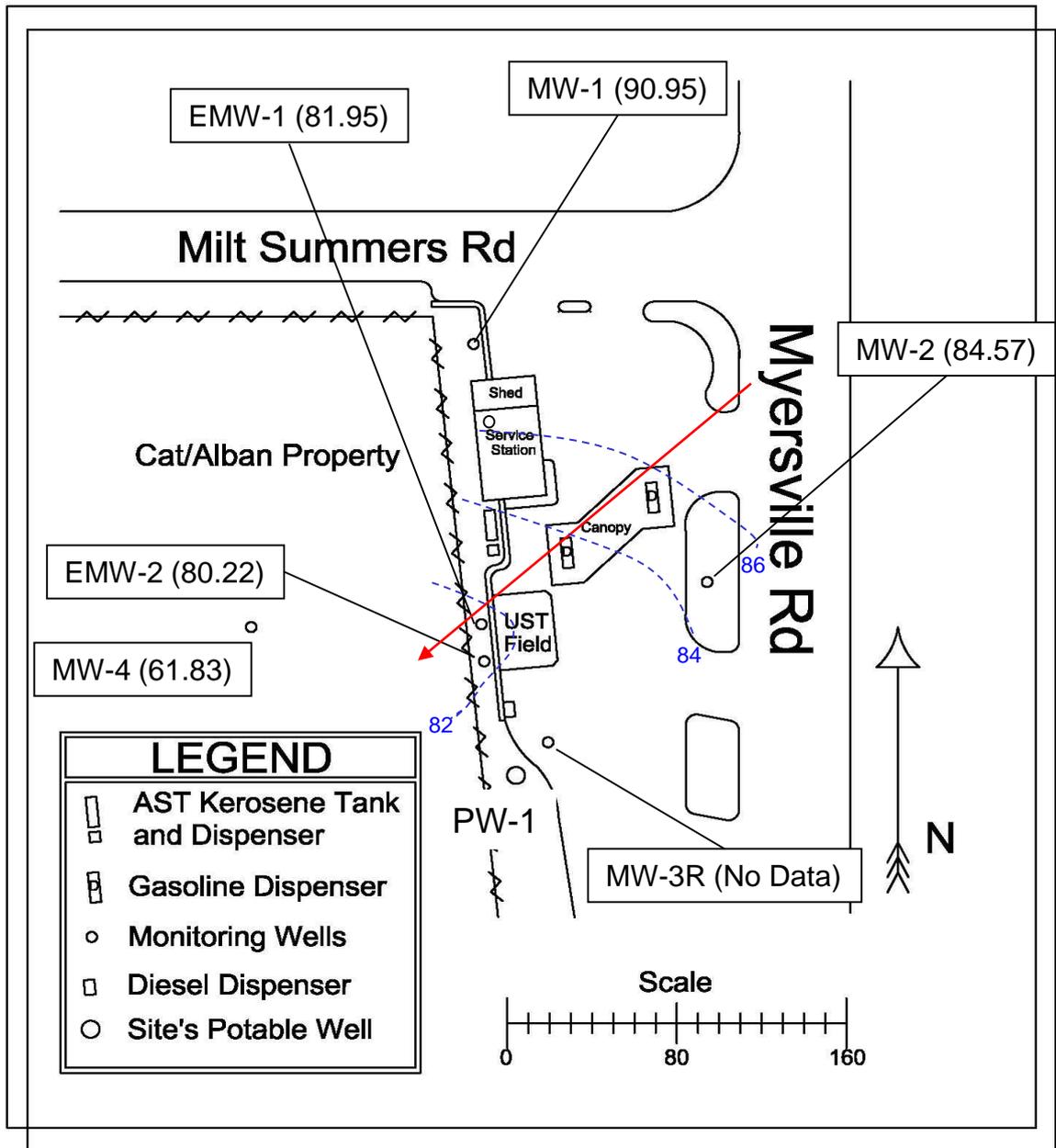
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**Figure 2 – Monitoring Well Location Map**  
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Data Collected 9-30-2016  
 (86.13) = Groundwater Elevation in Feet  
 - - - - - = Groundwater Contour  
 → = Estimated Groundwater Flow Direction



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**Figure 3 – Groundwater Contour Map**  
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**Attachment B**

**Tables**

**Table 1 - Historical Groundwater Elevation Data  
Gasoline Fueling Station – Myersville Crown  
9486 Myersville Road, Myersville, Maryland 21773**

Well No.	Date	Depth to Water	TOC Elevation	Water Elevation
MW-1	11/12/2008	11.91	97.48	85.57
	2/12/2009	11.34	97.48	86.14
	8/13/2009	7.55	97.48	89.93
	3/18/2010	8.27	97.48	89.21
	10/19/2010	9.83	97.48	87.65
	9/26/2011	7.93	97.48	89.55
	5/2/2012	6.20	97.48	91.28
	1/17/2013	5.81	97.48	91.67
	8/23/2013	6.85	97.48	90.63
	6/12/2014	5.63	97.48	91.85
	3/25/2015	6.59	97.48	90.89
	6/23/2015	7.17	97.48	90.31
	9/21/2015	6.51	97.48	90.97
6/30/2016	7.03	97.48	90.45	
9/30/2016	6.53	97.48	90.95	
MW-2	11/12/2008	16.58	99.87	83.29
	2/12/2009	15.48	99.87	84.39
	8/13/2009	14.42	99.87	85.45
	3/18/2010	10.60	99.87	89.27
	10/19/2010	13.74	99.87	86.13
	9/26/2011	13.98	99.87	85.89
	5/2/2012	14.28	99.87	85.59
	1/17/2013	10.90	99.87	88.97
	8/23/2013	15.25	99.87	84.62
	6/12/2014	10.55	99.87	89.32
	3/25/2015	11.80	99.87	88.07
	6/23/2015	12.50	99.87	87.37
	9/21/2015	14.60	99.87	85.27
6/30/2016	13.08	99.87	86.79	
9/30/2016	15.30	99.87	84.57	
MW-3R	11/12/2008	18.49	NS	ND
	2/12/2009	15.59	NS	ND
	8/13/2009	14.28	NS	ND
	3/18/2010	12.92	NS	ND
	10/19/2010	14.81	NS	ND
	9/26/2011	14.63	NS	ND
	5/2/2012	14.87	NS	ND
	1/17/2013	13.00	NS	ND
	8/23/2013	ND	NS	ND
	6/12/2014	ND	NS	ND
	3/25/2015	ND	NS	ND
	6/23/2015	ND	NS	ND
	9/21/2015	ND	NS	ND
6/30/2016	ND	NS	ND	
9/30/2016	ND	NS	ND	
MW-4	N/A	-	-	-
	N/A	-	-	-
	8/12/2009	20.87	85.77	64.90
	3/18/2010	19.63	85.77	66.14
	10/19/2010	ND	85.77	ND
	9/26/2011	ND	85.77	ND
	5/2/2012	22.31	85.77	63.46
	1/17/2013	22.06	85.77	63.71
	8/23/2013	26.42	85.77	59.35
	6/12/2014	22.40	85.77	63.37
	3/25/2015	22.82	85.77	62.95
	6/23/2015	23.00	85.77	62.77
	9/21/2015	24.00	85.77	61.77
6/30/2016	23.50	85.77	62.27	
9/30/2016	23.94	85.77	61.83	

Well No.	Date	Depth to Water	TOC Elevation	Water Elevation
EMW-1	11/12/2008	18.74	100.58	81.84
	2/12/2009	18.40	100.58	82.18
	8/13/2009	16.99	100.58	83.59
	3/18/2010	15.45	100.58	85.13
	10/19/2010	16.88	100.58	83.70
	9/26/2011	17.92	100.58	82.66
	5/2/2012	18.10	100.58	82.48
	1/17/2013	16.21	100.58	84.37
	8/23/2013	18.28	100.58	82.30
	6/12/2014	15.21	100.58	85.37
	3/25/2015	18.65	100.58	81.93
	6/23/2015	17.12	100.58	83.46
	9/21/2015	18.16	100.58	82.42
6/30/2016	17.95	100.58	82.63	
9/30/2016	18.63	100.58	81.95	
EMW-2	11/12/2008	20.21	100.62	80.41
	2/12/2009	19.34	100.62	81.28
	8/13/2009	17.38	100.62	83.24
	3/18/2010	13.50	100.62	87.12
	10/19/2010	16.18	100.62	84.44
	9/26/2011	16.44	100.62	84.18
	5/2/2012	17.86	100.62	82.76
	1/17/2013	16.20	100.62	84.42
	8/23/2013	17.75	100.62	82.87
	6/12/2014	16.31	100.62	84.31
	3/25/2015	15.78	100.62	84.84
	6/23/2015	17.10	100.62	83.52
	9/21/2015	18.89	100.62	81.73
6/30/2016	17.87	100.62	82.75	
9/30/2016	20.40	100.62	80.22	
TP-1	11/12/2008	NLP	99.71	ND
	2/12/2009	NLP	99.71	ND
	8/13/2009	NLP	99.71	ND
	3/18/2010	12.12	99.71	87.59
	10/19/2010	NLP	99.71	ND
	9/26/2011	13.41	99.71	86.30
	5/2/2012	13.42	99.71	86.29
	1/17/2013	12.96	99.71	86.75
	8/23/2013	13.51	99.71	86.20
	6/12/2014	12.74	99.71	86.97
Removed on December 14, 2014				
TP-1A	3/25/2015	12.45	NS	ND
	6/23/2015	12.80	NS	ND
	9/21/2015	NLP	NS	ND
	6/30/2016	NLP	NS	ND
	9/30/2016	NLP	NS	ND
TP-2	11/12/2008	9.83	99.73	89.90
	2/12/2009	NLP	99.73	ND
	8/13/2009	NLP	99.73	ND
	3/18/2010	12.49	99.73	87.24
	10/19/2010	14.02	99.73	85.71
	9/26/2011	NLP	99.73	ND
	5/2/2012	NLP	99.73	ND
	1/17/2013	13.07	99.73	86.66
	8/23/2013	NLP	99.73	ND
	6/12/2014	12.81	99.73	86.92
Removed on December 14, 2014				
TP-2A	3/25/2015	12.44	NS	ND
	6/23/2015	12.75	NS	ND
	9/21/2015	NLP	NS	ND
	6/30/2016	NLP	NS	ND
	9/30/2016	NLP	NS	ND

All measurements in feet

TOC = Top of Casing

NLP = No liquid present

NS = Not surveyed

ND = No Data



Well No.	Date	B	T	E	X	Total BTEX	TPH DRO	TPH GRO	TBA	TAA	MTBE	Trans-12 DCE	DIPE	TAME	Acetone	Cis-12 DCE	2-Butanone	TCE	IPBZ	NPABZ	135TMBZ	124TMBZ	4IPT	SBTBZ	NBTBZ	Nap			
EMW-2	11/6/2006	340	170	22	75	607.0	0.800	5,000	BDL	BDL	25,000	BDL	230	150	BDL	BDL	BDL	BDL	8.5	10	73	140	10	BDL	BDL	45			
	6/7/2007	NS	NS	NS	NS	NS	NS	NS	NS	BDL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	BDL	NS	NS		
	12/7/2007	NS	NS	NS	NS	NS	NS	NS	NS	BDL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	BDL	NS	NS		
	3/8/2008	130	24	33	77	397.0	2,000	3,000	BDL	BDL	990	BDL	560	BDL	BDL	BDL	BDL	BDL	BDL	30	46	250	510	44	BDL	BDL	76		
	6/8/2008	70	14	25	67	176.0	7,100	4,900	BDL	BDL	1,100	BDL	5,300	BDL	BDL	BDL	BDL	BDL	BDL	24	40	180	400	46	BDL	BDL	90		
	8/8/2008	100	12	38	39	189.0	6,400	5,600	BDL	BDL	2,100	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	30	26	130	460	27	BDL	BDL	100		
	11/8/2008	160	20	67	139	386.0	2,100	8,200	BDL	BDL	9,700	BDL	170	BDL	BDL	BDL	BDL	BDL	BDL	60	50	320	1,600	27	BDL	BDL	810		
	2/9/2009	66	13	35	101	215.0	2,400	2,500	BDL	BDL	2,300	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	35	37	130	720	41	BDL	BDL	140		
	8/9/2009	51	BDL	8.2	44	103.2	7,900	5,000	BDL	BDL	2,000	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	20	50	300	600	60	BDL	BDL	90	
	3/9/2010	8.6	BDL	BDL	17.0	25.6	1,000	1,700	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	18	61	150	20	BDL	BDL	25	
	10/10/2010	30	BDL	18	59	107.0	BDL	6,400	BDL	BDL	480	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	42	70	420	1,100	74	BDL	BDL	150	
	9/26/2011	22	15	9.3	91	137.3	7,900	5,000	BDL	BDL	210	BDL	51	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	11	39	60	BDL	BDL	9		
	5/2/2012	110	10	30	42	192.0	0,900	2,900	BDL	BDL	5,900	BDL	100	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	14	30	52	230	24	BDL	BDL	72
	1/17/2013	37	5.4	10	29	81.4	1,400	2,100	BDL	BDL	510	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	12	24	100	310	31	BDL	BDL	41
	8/13/2013	45	15	5.6	13.8	79.4	1,400	1,600	BDL	BDL	1,300	BDL	42	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6.8	30	60	190	32	BDL	BDL	30
6/12/2014	18.3	BDL	2.5j	6.6 J	27.4 J	4,300	287	1,700e	BDL	154	BDL	12.9	BDL	12.9	BDL	10.5	BDL	BDL	BDL	4.7	8.6	68.9	188	8.1	BDL	15.1	14.5		
3/25/2015	17.9	BDL	BDL	BDL	17.9	4.65	2,160	2,410e	403	278	BDL	17.4	BDL	6.130e	BDL	7,730e	BDL	BDL	BDL	4.7j	18.1	75.6	5.1j	5.8j	6.5j	7.0j			
6/23/2015	25.2 J	BDL	BDL	BDL	BDL	5.56	3,930	7,390	1,120	1,150	BDL	53.1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	104.0	403.0	BDL	BDL	BDL	25.2 j			
9/19/2015	36.4 J	BDL	BDL	BDL	36.4 J	6.13	3,060	14,600e	1,330	1,720	BDL	82.1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	110	BDL	BDL	BDL	BDL			
6/30/2016	6.0	BDL	BDL	BDL	6.0	2.95	2,370	2,290e	480	152	BDL	12.4	BDL	14.1	BDL	BDL	BDL	BDL	BDL	2.1j	5.9	89.4	4.2j	4.9j	5.1	BDL			
9/30/2016	32.0	BDL	BDL	BDL	32.0	5.72	2,020	8,790e	814	537	BDL	50.4	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	36.3	BDL	BDL	BDL	BDL			
TP-1	11/6/2006	1,000	1,700	150	870	3720.0	1,200	9,900	BDL	BDL	13,500	BDL	220	BDL	BDL	BDL	BDL	BDL	1,000	11	9.2	95	340	9.2	BDL	20	20		
	6/7/2007	NS	NS	NS	NS	NS	NS	NS	NS	BDL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	BDL	NS	NS		
	12/7/2007	NS	NS	NS	NS	NS	NS	NS	NS	BDL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	BDL	NS	NS		
	3/8/2008	NS	NS	NS	NS	NS	NS	NS	NS	BDL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	BDL	NS	NS		
	6/8/2008	520	2,100	200	1,600	4420.0	BDL	1,700	4,000	BDL	900	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	520	19	42	390	620	45	BDL	65	220	
	8/8/2008	NS	NS	NS	NS	NS	NS	NS	NS	BDL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	BDL	NS	NS		
	11/8/2008	NS	NS	NS	NS	NS	NS	NS	NS	BDL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	BDL	NS	NS		
	2/9/2009	NS	NS	NS	NS	NS	NS	NS	NS	BDL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	BDL	NS	NS		
	8/9/2009	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL	BDL	6.9	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
	3/9/2010	13	37	30	310	390.0	8,600	3,000	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	13	12	31	180	370	33	BDL	BDL	70
	10/10/2010	NS	NS	NS	NS	NS	NS	NS	NS	BDL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	BDL	NS	NS	
	9/26/2011	2,800	10,200	2,100	10,000	16100.0	2,500	8,600	BDL	BDL	850	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2,800	76	BDL	500	800	60	BDL	BDL	930
	5/2/2012	5,100	9,200	1,200	12,400	27900.0	42,000	42,000	BDL	BDL	1,400	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5,100	47	100	660	1,300	82	BDL	BDL	1,100
	11/7/2013	1,400	3,800	880	10,000	7080.0	3,200	31,000	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1,400	59	110	710	1,200	150	BDL	BDL	1,800
	8/13/2013	3,100	6,700	530	4,900	15230.0	7,600	1,400	BDL	BDL	200	BDL	165	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3,100	37	56	410	810	64	BDL	BDL	230
6/12/2014	835	1,850	172	2,199	5056.0	23,300	16,000	BDL	BDL	41.8j	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	835	BDL	57.2j	622	1,740	BDL	BDL	51.8j	136j	
TP-1A	3/25/2015	18.5	4.2j	17.0	21.3	61.0j	1.15	518	595	207	25.3	BDL	12.3	BDL	38.7	BDL	BDL	BDL	BDL	BDL	BDL	41.3	84.7	BDL	BDL	BDL	6.2j		
	6/23/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	9/21/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	6/30/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	9/30/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
TP-2	11/6/2006	NS	NS	NS	NS	NS	NS	NS	BDL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	BDL	NS	NS		
	6/7/2007	NS	NS	NS	NS	NS	NS	NS	BDL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	BDL	NS	NS		
	12/7/2007	NS	NS	NS	NS	NS	NS	NS	BDL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	BDL	NS	NS		
	3/8/2008	NS	NS	NS	NS	NS	NS	NS	BDL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	BDL	NS	NS		
	6/8/2008	NS	NS	NS	NS	NS	NS	NS	BDL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	BDL	NS	NS		
	8/8/2008	NS	NS	NS	NS	NS	NS	NS	BDL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	BDL	NS	NS		
	11/8/2008	NS	NS	NS	NS	NS	NS	NS	BDL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	BDL	NS	NS		
	2/9/2009	NS	NS	NS	NS	NS	NS	NS	BDL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	BDL	NS	NS		
	8/9/2009	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
	3/9/2010	10	7.8																										

Well No.	Date	B	T	E	X	Total BTEX	TPH DRO	TPH GRO	TBA	TAA	MTBE	Trans-12 DCE	DIPE	TAME	Acetone	Cis-12 DCE	2-Butanone	TCE	IPBZ	NPABZ	135TMBZ	124TMBZ	4IPT	SBTBZ	NBTBZ	Nap	
PW-2B	11/6/2006	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	11	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	6/7/2007	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/7/2007	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/8/2008	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	6/8/2008	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	8/8/2008	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	11/8/2008	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	2/9/2009	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	8/9/2009	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	3/9/2010	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	10/10/2010	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	9/26/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	5/2/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	1/17/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	8/13/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	6/12/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	3/25/2015	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	6/23/2015	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	59.8	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	9/21/2015	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	55.7	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	6/30/2016	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	53.9	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	9/30/2016	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	38.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
PW-3	11/6/2006	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/7/2007	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/7/2007	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/8/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/8/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/8/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/8/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/9/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/9/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/9/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/10/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/26/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/2/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	1/17/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.100	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	8/13/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	6/12/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	45.1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	3/25/2015	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	6/23/2015	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	21.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	9/21/2015	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	59.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	6/30/2016	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	110	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	9/30/2016	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	27.6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
<b>Type I and II Aquifers</b>		<b>5</b>	<b>1,000</b>	<b>700</b>	<b>10,000</b>	<b>NRS</b>	<b>0.047</b>	<b>47</b>	<b>NRS</b>	<b>NRS</b>	<b>20</b>	<b>100</b>	<b>NRS</b>	<b>NRS</b>	<b>550</b>	<b>70</b>	<b>700</b>	<b>5</b>	<b>66</b>	<b>NRS</b>	<b>0.65</b>						

TPH DRO results in parts per million or mg/l

VOC and TPH GRO results in parts per billion or ug/l

BDL = Below Detection Limits

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

MTBE = Methyl-tert-butyl-ether

TPH GRO = Total Petroleum Hydrocarbons Gasoline Range Organics

TPH DRO = Total Petroleum Hydrocarbons Diesel Range Organics

ND = No Data

NRS = No Regulatory Standard

BDL = Below Detectable Limit

J = Laboratory Estimated Value

TAA = tert-Amyl alcohol

Trans 12 DCE = Trans-1,2 Dichloroethene

Cis 12 DCE = Cis 1,2 Dichloroethene

TCE = Trichloroethene

Nap = Naphthalene

IPBZ = Isopropylbenzene

NPABZ = N-Propylbenzene

135TMBZ = 1,3,5 Trimethylbenzene

124TMBZ = 1,2,4 Trimethylbenzene

4IPT = 4-Isopropyltoluene

SBTBZ = sec-Butylbenzene

NBTBZ = N-Butylbenzene

**Attachment C**

**Laboratory Analytical Report and Chain of Custody Form**

11 October 2016

Michael Robertson  
Advantage Environmental Consultants  
8610 Baltimore Washington Blvd, Suite 217  
Jessup, MD 20794  
RE: MYERSVILLE CROWN

Enclosed are the results of analyses for samples received by the laboratory on 09/30/16 14:36.

A more detailed report format is available upon request, which lists the accreditation status for all analytical methods performed.

Please visit our website at [www.mdspectral.com](http://www.mdspectral.com) for a complete listing of our accreditations.

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

Sincerely,



Will Brewington  
Staff Chemist

**Analytical Results**

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

**Project: MYERSVILLE CROWN**

Project Number: 06-170  
Project Manager: Michael Robertson

**Reported:**  
10/11/16 13:53

Client Sample ID	Alternate Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1		6093012-01	Nonpotable Water	09/30/16 00:00	09/30/16 14:36
MW-2		6093012-02	Nonpotable Water	09/30/16 00:00	09/30/16 14:36
EMW-1		6093012-03	Nonpotable Water	09/30/16 00:00	09/30/16 14:36
EMW-2		6093012-04	Nonpotable Water	09/30/16 00:00	09/30/16 14:36
MW-4		6093012-05	Nonpotable Water	09/30/16 00:00	09/30/16 14:36



Will Brewington, Staff Chemist

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

## Analytical Results

**Project: MYERSVILLE CROWN**

Project Number: 06-170  
Project Manager: Michael Robertson

Reported:  
10/11/16 13:53

MW-1

6093012-01 (Nonpotable Water)

Sample Date: 09/30/16

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS)</b>									
Acetone	ND		ug/L	10.0	10.0	1	10/04/16	10/04/16 18:03	WB
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	10/04/16	10/04/16 18:03	WB
tert-Amyl methyl ether (TAME)	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
Benzene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
Bromobenzene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
Bromochloromethane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
Bromodichloromethane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
Bromoform	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
Bromomethane	ND		ug/L	5.0	5.0	1	10/04/16	10/04/16 18:03	WB
<b>tert-Butanol (TBA)</b>	<b>38.6</b>		ug/L	15.0	15.0	1	10/04/16	10/04/16 18:03	WB
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	10/04/16	10/04/16 18:03	WB
n-Butylbenzene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
sec-Butylbenzene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
tert-Butylbenzene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
Carbon disulfide	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
Carbon tetrachloride	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
Chlorobenzene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
Chloroethane	ND		ug/L	5.0	5.0	1	10/04/16	10/04/16 18:03	WB
Chloroform	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
Chloromethane	ND		ug/L	5.0	5.0	1	10/04/16	10/04/16 18:03	WB
2-Chlorotoluene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
4-Chlorotoluene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
Dibromochloromethane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
1,2-Dibromo-3-chloropropane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
1,2-Dibromoethane (EDB)	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
Dibromomethane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
1,2-Dichlorobenzene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
1,3-Dichlorobenzene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
1,4-Dichlorobenzene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
Dichlorodifluoromethane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
1,1-Dichloroethane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
1,2-Dichloroethane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
1,1-Dichloroethene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
cis-1,2-Dichloroethene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB

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



Will Brewington, Staff Chemist

**Analytical Results**

**Project: MYERSVILLE CROWN**

Project Number: 06-170  
Project Manager: Michael Robertson

Reported:  
10/11/16 13:53

**MW-1**

**6093012-01 (Nonpotable Water)**  
**Sample Date: 09/30/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)</b>									
trans-1,2-Dichloroethene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
Dichlorofluoromethane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
1,2-Dichloropropane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
1,3-Dichloropropane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
2,2-Dichloropropane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
1,1-Dichloropropene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
cis-1,3-Dichloropropene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
trans-1,3-Dichloropropene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
Diisopropyl ether (DIPE)	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
Ethyl tert-butyl ether (ETBE)	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
Ethylbenzene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
Hexachlorobutadiene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
2-Hexanone	ND		ug/L	10.0	10.0	1	10/04/16	10/04/16 18:03	WB
Isopropylbenzene (Cumene)	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
4-Isopropyltoluene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
Methyl tert-butyl ether (MTBE)	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	10/04/16	10/04/16 18:03	WB
Methylene chloride	ND		ug/L	10.0	10.0	1	10/04/16	10/04/16 18:03	WB
Naphthalene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
n-Propylbenzene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
Styrene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
1,1,1,2-Tetrachloroethane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
Tetrachloroethene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
Toluene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
1,2,3-Trichlorobenzene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
1,2,4-Trichlorobenzene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
1,1,1-Trichloroethane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
1,1,2-Trichloroethane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
Trichloroethene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
Trichlorofluoromethane (Freon 11)	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
1,2,3-Trichloropropane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
1,2,4-Trimethylbenzene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
1,3,5-Trimethylbenzene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB

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**Analytical Results**

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

**Project: MYERSVILLE CROWN**

Project Number: 06-170  
Project Manager: Michael Robertson

Reported:  
10/11/16 13:53

**MW-1**

**6093012-01 (Nonpotable Water)**  
**Sample Date: 09/30/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)</b>									
Vinyl chloride	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
o-Xylene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
m- & p-Xylenes	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:03	WB
Surrogate: 1,2-Dichloroethane-d4		75-120		112 %	10/04/16		10/04/16 18:03		
Surrogate: Toluene-d8		84-110		97 %	10/04/16		10/04/16 18:03		
Surrogate: 4-Bromofluorobenzene		78-110		87 %	10/04/16		10/04/16 18:03		
<b>GASOLINE RANGE ORGANICS BY EPA 8015B</b>									
Gasoline-Range Organics	ND		ug/L	100	100	1	10/05/16	10/05/16 13:33	GM
Surrogate: a,a,a-Trifluorotoluene		85-115		102 %	10/05/16		10/05/16 13:33		
<b>DIESEL RANGE ORGANICS BY EPA 3510/8015B</b>									
Diesel-Range Organics	0.40		mg/L	0.19	0.19	1	10/07/16	10/10/16 21:10	CMK
Surrogate: o-Terphenyl		60-120		108 %	10/07/16		10/10/16 21:10		

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## Analytical Results

**Project: MYERSVILLE CROWN**

Project Number: 06-170  
Project Manager: Michael Robertson

Reported:  
10/11/16 13:53

MW-2

6093012-02 (Nonpotable Water)

Sample Date: 09/30/16

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS)</b>									
Acetone	ND		ug/L	10.0	10.0	1	10/04/16	10/04/16 18:34	WB
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	10/04/16	10/04/16 18:34	WB
tert-Amyl methyl ether (TAME)	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
Benzene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
Bromobenzene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
Bromochloromethane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
Bromodichloromethane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
Bromoform	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
Bromomethane	ND		ug/L	5.0	5.0	1	10/04/16	10/04/16 18:34	WB
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	10/04/16	10/04/16 18:34	WB
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	10/04/16	10/04/16 18:34	WB
n-Butylbenzene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
sec-Butylbenzene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
tert-Butylbenzene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
Carbon disulfide	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
Carbon tetrachloride	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
Chlorobenzene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
Chloroethane	ND		ug/L	5.0	5.0	1	10/04/16	10/04/16 18:34	WB
Chloroform	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
Chloromethane	ND		ug/L	5.0	5.0	1	10/04/16	10/04/16 18:34	WB
2-Chlorotoluene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
4-Chlorotoluene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
Dibromochloromethane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
1,2-Dibromo-3-chloropropane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
1,2-Dibromoethane (EDB)	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
Dibromomethane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
1,2-Dichlorobenzene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
1,3-Dichlorobenzene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
1,4-Dichlorobenzene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
Dichlorodifluoromethane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
1,1-Dichloroethane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
1,2-Dichloroethane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
1,1-Dichloroethene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
cis-1,2-Dichloroethene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB

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## Analytical Results

**Project: MYERSVILLE CROWN**

Project Number: 06-170  
Project Manager: Michael Robertson

Reported:  
10/11/16 13:53

MW-2

6093012-02 (Nonpotable Water)

Sample Date: 09/30/16

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)</b>									
trans-1,2-Dichloroethene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
Dichlorofluoromethane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
1,2-Dichloropropane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
1,3-Dichloropropane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
2,2-Dichloropropane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
1,1-Dichloropropene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
cis-1,3-Dichloropropene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
trans-1,3-Dichloropropene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
Diisopropyl ether (DIPE)	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
Ethyl tert-butyl ether (ETBE)	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
Ethylbenzene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
Hexachlorobutadiene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
2-Hexanone	ND		ug/L	10.0	10.0	1	10/04/16	10/04/16 18:34	WB
Isopropylbenzene (Cumene)	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
4-Isopropyltoluene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
Methyl tert-butyl ether (MTBE)	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	10/04/16	10/04/16 18:34	WB
Methylene chloride	ND		ug/L	10.0	10.0	1	10/04/16	10/04/16 18:34	WB
Naphthalene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
n-Propylbenzene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
Styrene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
1,1,1,2-Tetrachloroethane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
Tetrachloroethene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
Toluene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
1,2,3-Trichlorobenzene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
1,2,4-Trichlorobenzene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
1,1,1-Trichloroethane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
1,1,2-Trichloroethane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
Trichloroethene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
Trichlorofluoromethane (Freon 11)	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
1,2,3-Trichloropropane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
1,2,4-Trimethylbenzene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
1,3,5-Trimethylbenzene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB

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**Analytical Results**

1500 Caton Center Dr Suite G  
Baltimore MD 21227  
410-247-7600  
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**Project: MYERSVILLE CROWN**

Project Number: 06-170  
Project Manager: Michael Robertson

Reported:  
10/11/16 13:53

**MW-2**

**6093012-02 (Nonpotable Water)**  
**Sample Date: 09/30/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)</b>									
Vinyl chloride	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
o-Xylene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
m- & p-Xylenes	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 18:34	WB
<i>Surrogate: 1,2-Dichloroethane-d4</i>				108 %			10/04/16	10/04/16 18:34	
<i>Surrogate: Toluene-d8</i>				98 %			10/04/16	10/04/16 18:34	
<i>Surrogate: 4-Bromofluorobenzene</i>				85 %			10/04/16	10/04/16 18:34	
<b>GASOLINE RANGE ORGANICS BY EPA 8015B</b>									
Gasoline-Range Organics	ND		ug/L	100	100	1	10/05/16	10/05/16 14:11	GM
<i>Surrogate: a,a,a-Trifluorotoluene</i>				102 %			10/05/16	10/05/16 14:11	
<b>DIESEL RANGE ORGANICS BY EPA 3510/8015B</b>									
Diesel-Range Organics	ND		mg/L	0.21	0.21	1	10/07/16	10/10/16 21:37	CMK
<i>Surrogate: o-Terphenyl</i>				95 %			10/07/16	10/10/16 21:37	

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## Analytical Results

**Project: MYERSVILLE CROWN**

Project Number: 06-170  
Project Manager: Michael Robertson

Reported:  
10/11/16 13:53

### EMW-1

**6093012-03 (Nonpotable Water)**

**Sample Date: 09/30/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS)</b>									
Acetone	ND		ug/L	10.0	10.0	1	10/04/16	10/04/16 19:06	WB
<b>tert-Amyl alcohol (TAA)</b>	<b>34.5</b>		ug/L	20.0	20.0	1	10/04/16	10/04/16 19:06	WB
tert-Amyl methyl ether (TAME)	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
Benzene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
Bromobenzene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
Bromochloromethane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
Bromodichloromethane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
Bromoform	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
Bromomethane	ND		ug/L	5.0	5.0	1	10/04/16	10/04/16 19:06	WB
<b>tert-Butanol (TBA)</b>	<b>643</b>		ug/L	15.0	15.0	1	10/04/16	10/04/16 19:06	WB
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	10/04/16	10/04/16 19:06	WB
n-Butylbenzene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
sec-Butylbenzene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
tert-Butylbenzene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
Carbon disulfide	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
Carbon tetrachloride	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
Chlorobenzene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
Chloroethane	ND		ug/L	5.0	5.0	1	10/04/16	10/04/16 19:06	WB
Chloroform	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
Chloromethane	ND		ug/L	5.0	5.0	1	10/04/16	10/04/16 19:06	WB
2-Chlorotoluene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
4-Chlorotoluene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
Dibromochloromethane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
1,2-Dibromo-3-chloropropane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
1,2-Dibromoethane (EDB)	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
Dibromomethane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
1,2-Dichlorobenzene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
1,3-Dichlorobenzene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
1,4-Dichlorobenzene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
Dichlorodifluoromethane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
1,1-Dichloroethane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
1,2-Dichloroethane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
1,1-Dichloroethene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
cis-1,2-Dichloroethene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB

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## Analytical Results

**Project: MYERSVILLE CROWN**

Project Number: 06-170  
Project Manager: Michael Robertson

Reported:  
10/11/16 13:53

### EMW-1

**6093012-03 (Nonpotable Water)**

**Sample Date: 09/30/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)</b>									
trans-1,2-Dichloroethene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
Dichlorofluoromethane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
1,2-Dichloropropane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
1,3-Dichloropropane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
2,2-Dichloropropane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
1,1-Dichloropropene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
cis-1,3-Dichloropropene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
trans-1,3-Dichloropropene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
<b>Diisopropyl ether (DIPE)</b>	<b>8.4</b>		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
Ethyl tert-butyl ether (ETBE)	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
Ethylbenzene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
Hexachlorobutadiene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
2-Hexanone	ND		ug/L	10.0	10.0	1	10/04/16	10/04/16 19:06	WB
Isopropylbenzene (Cumene)	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
4-Isopropyltoluene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
<b>Methyl tert-butyl ether (MTBE)</b>	<b>11.0</b>		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	10/04/16	10/04/16 19:06	WB
Methylene chloride	ND		ug/L	10.0	10.0	1	10/04/16	10/04/16 19:06	WB
Naphthalene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
n-Propylbenzene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
Styrene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
1,1,1,2-Tetrachloroethane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
Tetrachloroethene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
Toluene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
1,2,3-Trichlorobenzene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
1,2,4-Trichlorobenzene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
1,1,1-Trichloroethane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
1,1,2-Trichloroethane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
Trichloroethene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
Trichlorofluoromethane (Freon 11)	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
1,2,3-Trichloropropane	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
1,2,4-Trimethylbenzene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
1,3,5-Trimethylbenzene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB

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Will Brewington, Staff Chemist

**Analytical Results**

**Project: MYERSVILLE CROWN**

Project Number: 06-170  
Project Manager: Michael Robertson

Reported:  
10/11/16 13:53

**EMW-1**

**6093012-03 (Nonpotable Water)**

**Sample Date: 09/30/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)</b>									
Vinyl chloride	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
o-Xylene	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
m- & p-Xylenes	ND		ug/L	5.0	2.0	1	10/04/16	10/04/16 19:06	WB
Surrogate: 1,2-Dichloroethane-d4		75-120		111 %	10/04/16		10/04/16 19:06		
Surrogate: Toluene-d8		84-110		101 %	10/04/16		10/04/16 19:06		
Surrogate: 4-Bromofluorobenzene		78-110		88 %	10/04/16		10/04/16 19:06		
<b>GASOLINE RANGE ORGANICS BY EPA 8015B</b>									
Gasoline-Range Organics	280		ug/L	100	100	1	10/05/16	10/05/16 14:50	GM
Surrogate: a,a,a-Trifluorotoluene		85-115		102 %	10/05/16		10/05/16 14:50		
<b>DIESEL RANGE ORGANICS BY EPA 3510/8015B</b>									
Diesel-Range Organics	1.05		mg/L	0.19	0.19	1	10/07/16	10/10/16 22:03	CMK
Surrogate: o-Terphenyl		60-120		104 %	10/07/16		10/10/16 22:03		

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



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## Analytical Results

**Project: MYERSVILLE CROWN**

Project Number: 06-170  
Project Manager: Michael Robertson

Reported:  
10/11/16 13:53

### EMW-2

**6093012-04 (Nonpotable Water)**

**Sample Date: 09/30/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS)</b>									
Acetone	ND		ug/L	50.0	50.0	5	10/05/16	10/05/16 16:29	WB
<b>tert-Amyl alcohol (TAA)</b>	<b>814</b>		ug/L	100	100	5	10/05/16	10/05/16 16:29	WB
tert-Amyl methyl ether (TAME)	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
<b>Benzene</b>	<b>32.0</b>		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
Bromobenzene	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
Bromochloromethane	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
Bromodichloromethane	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
Bromoform	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
Bromomethane	ND		ug/L	25.0	25.0	5	10/05/16	10/05/16 16:29	WB
<b>tert-Butanol (TBA)</b>	<b>8790</b>	E	ug/L	75.0	75.0	5	10/05/16	10/05/16 16:29	WB
2-Butanone (MEK)	ND		ug/L	50.0	50.0	5	10/05/16	10/05/16 16:29	WB
n-Butylbenzene	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
sec-Butylbenzene	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
tert-Butylbenzene	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
Carbon disulfide	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
Carbon tetrachloride	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
Chlorobenzene	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
Chloroethane	ND		ug/L	25.0	25.0	5	10/05/16	10/05/16 16:29	WB
Chloroform	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
Chloromethane	ND		ug/L	25.0	25.0	5	10/05/16	10/05/16 16:29	WB
2-Chlorotoluene	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
4-Chlorotoluene	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
Dibromochloromethane	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
1,2-Dibromo-3-chloropropane	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
1,2-Dibromoethane (EDB)	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
Dibromomethane	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
1,2-Dichlorobenzene	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
1,3-Dichlorobenzene	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
1,4-Dichlorobenzene	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
Dichlorodifluoromethane	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
1,1-Dichloroethane	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
1,2-Dichloroethane	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
1,1-Dichloroethene	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
cis-1,2-Dichloroethene	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB

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**Analytical Results**

**Project: MYERSVILLE CROWN**

Project Number: 06-170  
Project Manager: Michael Robertson

Reported:  
10/11/16 13:53

**EMW-2**

**6093012-04 (Nonpotable Water)**

**Sample Date: 09/30/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)</b>									
trans-1,2-Dichloroethene	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
Dichlorofluoromethane	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
1,2-Dichloropropane	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
1,3-Dichloropropane	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
2,2-Dichloropropane	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
1,1-Dichloropropene	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
cis-1,3-Dichloropropene	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
trans-1,3-Dichloropropene	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
<b>Diisopropyl ether (DIPE)</b>	<b>50.4</b>		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
Ethyl tert-butyl ether (ETBE)	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
Ethylbenzene	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
Hexachlorobutadiene	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
2-Hexanone	ND		ug/L	50.0	50.0	5	10/05/16	10/05/16 16:29	WB
Isopropylbenzene (Cumene)	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
4-Isopropyltoluene	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
<b>Methyl tert-butyl ether (MTBE)</b>	<b>537</b>		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
4-Methyl-2-pentanone	ND		ug/L	50.0	50.0	5	10/05/16	10/05/16 16:29	WB
Methylene chloride	ND		ug/L	50.0	50.0	5	10/05/16	10/05/16 16:29	WB
Naphthalene	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
n-Propylbenzene	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
Styrene	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
1,1,1,2-Tetrachloroethane	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
1,1,1,2,2-Tetrachloroethane	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
Tetrachloroethene	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
Toluene	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
1,2,3-Trichlorobenzene	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
1,2,4-Trichlorobenzene	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
1,1,1-Trichloroethane	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
1,1,2-Trichloroethane	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
Trichloroethene	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
Trichlorofluoromethane (Freon 11)	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
1,2,3-Trichloropropane	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
<b>1,2,4-Trimethylbenzene</b>	<b>36.3</b>		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
1,3,5-Trimethylbenzene	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB

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**Analytical Results**

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

**Project: MYERSVILLE CROWN**

Project Number: 06-170  
Project Manager: Michael Robertson

Reported:  
10/11/16 13:53

**EMW-2**

**6093012-04 (Nonpotable Water)**  
**Sample Date: 09/30/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)</b>									
Vinyl chloride	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
o-Xylene	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
m- & p-Xylenes	ND		ug/L	25.0	10.0	5	10/05/16	10/05/16 16:29	WB
<i>Surrogate: 1,2-Dichloroethane-d4</i>				75-120	102 %		10/05/16	10/05/16 16:29	
<i>Surrogate: Toluene-d8</i>				84-110	102 %		10/05/16	10/05/16 16:29	
<i>Surrogate: 4-Bromofluorobenzene</i>				78-110	95 %		10/05/16	10/05/16 16:29	
<b>DIESEL RANGE ORGANICS BY EPA 3510/8015B</b>									
<b>Diesel-Range Organics</b>	<b>5.72</b>		mg/L	0.19	0.19	1	10/07/16	10/10/16 22:30	CMK
<i>Surrogate: o-Terphenyl</i>				60-120	128 %		10/07/16	10/10/16 22:30	S-02



Will Brewington, Staff Chemist

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**Analytical Results**

**Project: MYERSVILLE CROWN**

Project Number: 06-170  
Project Manager: Michael Robertson

Reported:  
10/11/16 13:53

**EMW-2**

**6093012-04RE1 (Nonpotable Water)**  
**Sample Date: 09/30/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>GASOLINE RANGE ORGANICS BY EPA 8015B</b>									
<b>Gasoline-Range Organics</b>	<b>2020</b>		ug/L	200	200	2	10/11/16	10/11/16 13:38	GM
<i>Surrogate: a,a,a-Trifluorotoluene</i>			85-115	104 %	10/11/16		10/11/16 13:38		



Will Brewington, Staff Chemist

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**Analytical Results**

**Project: MYERSVILLE CROWN**

Project Number: 06-170  
Project Manager: Michael Robertson

Reported:  
10/11/16 13:53

**MW-4**

**6093012-05 (Nonpotable Water)**  
**Sample Date: 09/30/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS)</b>									
Acetone	ND		ug/L	10.0	10.0	1	10/05/16	10/05/16 17:00	WB
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	10/05/16	10/05/16 17:00	WB
tert-Amyl methyl ether (TAME)	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
Benzene	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
Bromobenzene	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
Bromochloromethane	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
Bromodichloromethane	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
Bromoform	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
Bromomethane	ND		ug/L	5.0	5.0	1	10/05/16	10/05/16 17:00	WB
<b>tert-Butanol (TBA)</b>	<b>32.2</b>		ug/L	15.0	15.0	1	10/05/16	10/05/16 17:00	WB
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	10/05/16	10/05/16 17:00	WB
n-Butylbenzene	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
sec-Butylbenzene	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
tert-Butylbenzene	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
Carbon disulfide	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
Carbon tetrachloride	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
Chlorobenzene	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
Chloroethane	ND		ug/L	5.0	5.0	1	10/05/16	10/05/16 17:00	WB
Chloroform	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
Chloromethane	ND		ug/L	5.0	5.0	1	10/05/16	10/05/16 17:00	WB
2-Chlorotoluene	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
4-Chlorotoluene	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
Dibromochloromethane	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
1,2-Dibromo-3-chloropropane	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
1,2-Dibromoethane (EDB)	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
Dibromomethane	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
1,2-Dichlorobenzene	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
1,3-Dichlorobenzene	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
1,4-Dichlorobenzene	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
Dichlorodifluoromethane	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
1,1-Dichloroethane	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
1,2-Dichloroethane	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
1,1-Dichloroethene	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
cis-1,2-Dichloroethene	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB

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## Analytical Results

**Project: MYERSVILLE CROWN**

Project Number: 06-170  
Project Manager: Michael Robertson

Reported:  
10/11/16 13:53

MW-4

6093012-05 (Nonpotable Water)

Sample Date: 09/30/16

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)</b>									
trans-1,2-Dichloroethene	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
Dichlorofluoromethane	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
1,2-Dichloropropane	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
1,3-Dichloropropane	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
2,2-Dichloropropane	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
1,1-Dichloropropene	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
cis-1,3-Dichloropropene	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
trans-1,3-Dichloropropene	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
Diisopropyl ether (DIPE)	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
Ethyl tert-butyl ether (ETBE)	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
Ethylbenzene	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
Hexachlorobutadiene	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
2-Hexanone	ND		ug/L	10.0	10.0	1	10/05/16	10/05/16 17:00	WB
Isopropylbenzene (Cumene)	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
4-Isopropyltoluene	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
<b>Methyl tert-butyl ether (MTBE)</b>	<b>29.8</b>		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	10/05/16	10/05/16 17:00	WB
Methylene chloride	ND		ug/L	10.0	10.0	1	10/05/16	10/05/16 17:00	WB
Naphthalene	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
n-Propylbenzene	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
Styrene	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
1,1,1,2-Tetrachloroethane	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
Tetrachloroethene	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
Toluene	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
1,2,3-Trichlorobenzene	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
1,2,4-Trichlorobenzene	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
1,1,1-Trichloroethane	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
1,1,2-Trichloroethane	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
Trichloroethene	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
Trichlorofluoromethane (Freon 11)	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
1,2,3-Trichloropropane	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
1,2,4-Trimethylbenzene	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
1,3,5-Trimethylbenzene	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB

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Will Brewington, Staff Chemist

**Analytical Results**

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

**Project: MYERSVILLE CROWN**

Project Number: 06-170  
Project Manager: Michael Robertson

Reported:  
10/11/16 13:53

**MW-4**

**6093012-05 (Nonpotable Water)**  
**Sample Date: 09/30/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)</b>									
Vinyl chloride	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
o-Xylene	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
m- & p-Xylenes	ND		ug/L	5.0	2.0	1	10/05/16	10/05/16 17:00	WB
<i>Surrogate: 1,2-Dichloroethane-d4</i>				75-120	102 %		10/05/16	10/05/16 17:00	
<i>Surrogate: Toluene-d8</i>				84-110	99 %		10/05/16	10/05/16 17:00	
<i>Surrogate: 4-Bromofluorobenzene</i>				78-110	94 %		10/05/16	10/05/16 17:00	
<b>GASOLINE RANGE ORGANICS BY EPA 8015B</b>									
Gasoline-Range Organics	ND		ug/L	100	100	1	10/05/16	10/05/16 16:48	GM
<i>Surrogate: a,a,a-Trifluorotoluene</i>				85-115	103 %		10/05/16	10/05/16 16:48	
<b>DIESEL RANGE ORGANICS BY EPA 3510/8015B</b>									
Diesel-Range Organics	ND		mg/L	0.19	0.19	1	10/07/16	10/10/16 22:56	CMK
<i>Surrogate: o-Terphenyl</i>				60-120	86 %		10/07/16	10/10/16 22:56	

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Will Brewington, Staff Chemist

## Analytical Results

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

**Project: MYERSVILLE CROWN**

Project Number: 06-170  
Project Manager: Michael Robertson

Reported:  
10/11/16 13:53

### Notes and Definitions

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- J Detected but below the reporting limit; therefore, result is an estimated concentration (CLP J-Flag).
- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate (CLP E-flag).
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



Will Brewington, Staff Chemist

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# CHAIN-OF-CUSTODY RECORD

<b>Company Name:</b> <span style="font-size: 1.5em; font-weight: bold;">AEC</span>		<b>Project Manager:</b> <span style="font-size: 1.2em;">M. Robertson</span>		<b>Analysis Requested</b>		<b>Matrix Codes:</b> NW (non-potable water) PW (potable water)	
<b>Project Name:</b> <span style="font-size: 1.2em;">Myersville Crown</span>		<b>Project ID:</b> <span style="font-size: 1.2em;">06-170</span>		No. of Containers VOC's 8260 TPH DRO 8015 TPH GRO 8015		Field pH, Residual Chlorine, QC Request, Trip Blank, Field Blank	
<b>Sampler(s):</b> <span style="font-size: 1.2em;">A. Jennison</span>		<b>P.O. Number:</b> <span style="font-size: 1.2em;">06-170</span>				MSS Lab ID	
Field Sample ID	Date	Time	Water	Soil	Other	Relinquished by: (Signature)	Received by: (Signature)
mw-1	9/3/16		X		4	Alec Jennison	6093012-01
mw-2						Alec Jennison	02
EMW-1						Alec Jennison	03
EMW-2						Alec Jennison	04
mw-4						Alec Jennison	05
<b>Relinquished by: (Signature)</b> <span style="font-size: 1.5em; font-family: cursive;">Alec Jennison</span>		<b>Date/Time</b> <span style="font-size: 1.2em;">9/30/16</span>		<b>Relinquished by: (Signature)</b> (Printed)		<b>Received by: (Signature)</b> (Printed)	
<b>Relinquished by: (Signature)</b> <span style="font-size: 1.5em; font-family: cursive;">Alec Jennison</span>		<b>Date/Time</b> <span style="font-size: 1.2em;">13:55</span>		<b>Relinquished by: (Signature)</b> (Printed)		<b>Received by: (Signature)</b> (Printed)	
<b>Relinquished by: (Signature)</b> (Printed)		<b>Date/Time</b> <span style="font-size: 1.2em;">9/30/16</span>		<b>Relinquished by: (Signature)</b> (Printed)		<b>Received by: (Signature)</b> (Printed)	
<b>Relinquished by: (Signature)</b> (Printed)		<b>Date/Time</b> <span style="font-size: 1.2em;">1357</span>		<b>Relinquished by: (Signature)</b> (Printed)		<b>Received by: (Signature)</b> (Printed)	
<b>Delivery Method:</b> <input type="checkbox"/> Courier <input checked="" type="checkbox"/> Client <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> USPS Other: _____		<b>Special Instructions/QC Requirements &amp; Comments:</b> <span style="font-size: 1.2em; font-family: cursive;">result to mrobertson ajennison sdesse</span>					
<b>Lab Use:</b> Temp: <span style="font-size: 1.2em;">5.0°C</span> <input checked="" type="checkbox"/> Received on Ice <input type="checkbox"/> Received same day <input type="checkbox"/> Preservation Appropriate		<b>Turn Around Time:</b> <input checked="" type="checkbox"/> Normal (7 day) <input type="checkbox"/> 5 day <input type="checkbox"/> 4 day <input type="checkbox"/> 3 day <input type="checkbox"/> Rush (2 day) <input type="checkbox"/> Next Day Other: _____		<b>Sample Disposal:</b> <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by lab <input type="checkbox"/> Archive for _____ days		Date/Time Received by: (Signature)	

11 October 2016

Michael Robertson  
Advantage Environmental Consultants  
8610 Baltimore Washington Blvd, Suite 217  
Jessup, MD 20794  
RE: MYERSVILLE CROWN

Enclosed are the results of analyses for samples received by the laboratory on 09/30/16 14:40.

A more detailed report format is available upon request, which lists the accreditation status for all analytical methods performed.

Please visit our website at [www.mdspectral.com](http://www.mdspectral.com) for a complete listing of our accreditations.

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

Sincerely,



Will Brewington  
Staff Chemist

**Analytical Results**

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

**Project: MYERSVILLE CROWN**

Project Number: 06-170  
Project Manager: Michael Robertson

Reported:  
10/11/16 12:16

Client Sample ID	Alternate Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW-1 ( IN)		6093013-01	Potable Water	09/30/16 09:36	09/30/16 14:40
PW-2A (MID 1)		6093013-02	Potable Water	09/30/16 09:33	09/30/16 14:40
PW-2B (MID 2)		6093013-03	Potable Water	09/30/16 09:30	09/30/16 14:40
PW-3 (EFF)		6093013-04	Potable Water	09/30/16 09:27	09/30/16 14:40



Will Brewington, Staff Chemist

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**Analytical Results**

**Project: MYERSVILLE CROWN**

Project Number: 06-170  
Project Manager: Michael Robertson

Reported:  
10/11/16 12:16

**PW-1 ( IN)**

**6093013-01 (Potable Water)**  
**Sample Date: 09/30/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>VOLATILE ORGANICS BY EPA METHOD 524.2 (GC/MS)</b>									
tert-Amyl alcohol (TAA)	ND		ug/L	50.0	50.0	5	10/05/16	10/05/16 12:35	WB
tert-Amyl methyl ether (TAME)	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
Benzene	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
Bromobenzene	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
Bromochloromethane	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
Bromodichloromethane	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
Bromoform	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
Bromomethane	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
tert-Butanol (TBA)	ND		ug/L	50.0	50.0	5	10/05/16	10/05/16 12:35	WB
n-Butylbenzene	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
sec-Butylbenzene	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
tert-Butylbenzene	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
Carbon tetrachloride	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
Chlorobenzene	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
Chloroethane	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
Chloroform	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
Chloromethane	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
2-Chlorotoluene	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
4-Chlorotoluene	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
Dibromochloromethane	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
1,2-Dibromo-3-chloropropane	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
1,2-Dibromoethane (EDB)	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
Dibromomethane	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
1,2-Dichlorobenzene	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
1,3-Dichlorobenzene	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
1,4-Dichlorobenzene	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
Dichlorodifluoromethane	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
1,1-Dichloroethane	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
1,2-Dichloroethane	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
1,1-Dichloroethene	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
cis-1,2-Dichloroethene	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
trans-1,2-Dichloroethene	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
1,2-Dichloropropane	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
1,3-Dichloropropane	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB

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Will Brewington, Staff Chemist

**Analytical Results**

**Project: MYERSVILLE CROWN**

Project Number: 06-170  
Project Manager: Michael Robertson

Reported:  
10/11/16 12:16

**PW-1 ( IN)**

**6093013-01 (Potable Water)**

**Sample Date: 09/30/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>VOLATILE ORGANICS BY EPA METHOD 524.2 (GC/MS) (continued)</b>									
2,2-Dichloropropane	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
1,1-Dichloropropene	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
cis-1,3-Dichloropropene	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
trans-1,3-Dichloropropene	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
Diisopropyl ether (DIPE)	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
Ethylbenzene	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
Hexachlorobutadiene	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
Isopropylbenzene (Cumene)	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
4-Isopropyltoluene	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
<b>Methyl tert-butyl ether (MTBE)</b>	<b>111</b>		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
Methylene chloride	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
Naphthalene	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
n-Propylbenzene	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
Styrene	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
1,1,1,2-Tetrachloroethane	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
1,1,2,2-Tetrachloroethane	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
Tetrachloroethene	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
Toluene	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
1,2,3-Trichlorobenzene	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
1,2,4-Trichlorobenzene	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
1,1,1-Trichloroethane	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
1,1,2-Trichloroethane	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
Trichloroethene	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
1,2,3-Trichloropropane	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
1,2,4-Trimethylbenzene	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
1,3,5-Trimethylbenzene	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
Vinyl chloride	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
o-Xylene	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
m- & p-Xylenes	ND		ug/L	2.50	2.50	5	10/05/16	10/05/16 12:35	WB
Surrogate: 4-Bromofluorobenzene		80-120		88 %			10/05/16	10/05/16 12:35	
Surrogate: 1,2-Dichlorobenzene-d4		80-120		89 %			10/05/16	10/05/16 12:35	

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Will Brewington, Staff Chemist

**Analytical Results**

**Project: MYERSVILLE CROWN**

Project Number: 06-170  
Project Manager: Michael Robertson

Reported:  
10/11/16 12:16

**PW-1 ( IN)**

**6093013-01 (Potable Water)**  
**Sample Date: 09/30/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>GASOLINE RANGE ORGANICS BY EPA 8015B</b>									
<b>Gasoline-Range Organics</b>	<b>122</b>		ug/L	100	100	1	10/05/16	10/05/16 17:26	GM
<i>Surrogate: a,a,a-Trifluorotoluene</i>			85-115	103 %	10/05/16		10/05/16 17:26		
<b>DIESEL RANGE ORGANICS BY EPA 3510/8015B</b>									
<b>Diesel-Range Organics</b>	<b>ND</b>		mg/L	0.19	0.19	1	10/06/16	10/06/16 22:18	CMK
<i>Surrogate: o-Terphenyl</i>			60-120	80 %	10/06/16		10/06/16 22:18		



Will Brewington, Staff Chemist

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**Analytical Results**

**Project: MYERSVILLE CROWN**

Project Number: 06-170  
Project Manager: Michael Robertson

Reported:  
10/11/16 12:16

**PW-2A (MID 1)**

**6093013-02 (Potable Water)**

**Sample Date: 09/30/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>VOLATILE ORGANICS BY EPA METHOD 524.2 (GC/MS)</b>									
tert-Amyl alcohol (TAA)	ND		ug/L	10.0	10.0	1	10/05/16	10/05/16 13:08	WB
tert-Amyl methyl ether (TAME)	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
Benzene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
Bromobenzene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
Bromochloromethane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
Bromodichloromethane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
Bromoform	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
Bromomethane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
<b>tert-Butanol (TBA)</b>	<b>37.8</b>		ug/L	10.0	10.0	1	10/05/16	10/05/16 13:08	WB
n-Butylbenzene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
sec-Butylbenzene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
tert-Butylbenzene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
Carbon tetrachloride	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
Chlorobenzene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
Chloroethane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
Chloroform	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
Chloromethane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
2-Chlorotoluene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
4-Chlorotoluene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
Dibromochloromethane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
1,2-Dibromo-3-chloropropane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
1,2-Dibromoethane (EDB)	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
Dibromomethane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
1,2-Dichlorobenzene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
1,3-Dichlorobenzene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
1,4-Dichlorobenzene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
Dichlorodifluoromethane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
1,1-Dichloroethane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
1,2-Dichloroethane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
1,1-Dichloroethene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
cis-1,2-Dichloroethene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
trans-1,2-Dichloroethene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
1,2-Dichloropropane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
1,3-Dichloropropane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB

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## Analytical Results

**Project: MYERSVILLE CROWN**

Project Number: 06-170  
Project Manager: Michael Robertson

Reported:  
10/11/16 12:16

**PW-2A (MID 1)**

**6093013-02 (Potable Water)**

**Sample Date: 09/30/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>VOLATILE ORGANICS BY EPA METHOD 524.2 (GC/MS) (continued)</b>									
2,2-Dichloropropane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
1,1-Dichloropropene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
cis-1,3-Dichloropropene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
trans-1,3-Dichloropropene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
Diisopropyl ether (DIPE)	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
Ethyl tert-butyl ether (ETBE)	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
Ethylbenzene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
Hexachlorobutadiene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
Isopropylbenzene (Cumene)	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
4-Isopropyltoluene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
<b>Methyl tert-butyl ether (MTBE)</b>	<b>78.8</b>		ug/L	2.50	2.50	5	10/05/16	10/05/16 14:48	WB
Methylene chloride	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
Naphthalene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
n-Propylbenzene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
Styrene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
Tetrachloroethene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
Toluene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
1,2,3-Trichlorobenzene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
1,2,4-Trichlorobenzene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
1,1,1-Trichloroethane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
1,1,2-Trichloroethane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
Trichloroethene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
Trichlorofluoromethane (Freon 11)	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
1,2,3-Trichloropropane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
1,2,4-Trimethylbenzene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
1,3,5-Trimethylbenzene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
Vinyl chloride	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
o-Xylene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
m- & p-Xylenes	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:08	WB
Surrogate: 4-Bromofluorobenzene		80-120		90 %			10/05/16	10/05/16 13:08	
Surrogate: 1,2-Dichlorobenzene-d4		80-120		88 %			10/05/16	10/05/16 13:08	

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**Analytical Results**

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

**Project: MYERSVILLE CROWN**

Project Number: 06-170  
Project Manager: Michael Robertson

Reported:  
10/11/16 12:16

**PW-2A (MID 1)**

**6093013-02 (Potable Water)**  
**Sample Date: 09/30/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>GASOLINE RANGE ORGANICS BY EPA 8015B</b>									
<b>Gasoline-Range Organics</b>	<b>132</b>		ug/L	100	100	1	10/05/16	10/05/16 18:06	GM
<i>Surrogate: a,a,a-Trifluorotoluene</i>			85-115	103 %	10/05/16		10/05/16 18:06		
<b>DIESEL RANGE ORGANICS BY EPA 3510/8015B</b>									
<b>Diesel-Range Organics</b>	<b>ND</b>		mg/L	0.18	0.18	1	10/07/16	10/10/16 23:23	CMK
<i>Surrogate: o-Terphenyl</i>			60-120	90 %	10/07/16		10/10/16 23:23		



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## Analytical Results

**Project: MYERSVILLE CROWN**

Project Number: 06-170  
Project Manager: Michael Robertson

Reported:  
10/11/16 12:16

**PW-2B (MID 2)**

**6093013-03 (Potable Water)**

**Sample Date: 09/30/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>VOLATILE ORGANICS BY EPA METHOD 524.2 (GC/MS)</b>									
tert-Amyl alcohol (TAA)	ND		ug/L	10.0	10.0	1	10/05/16	10/05/16 13:42	WB
tert-Amyl methyl ether (TAME)	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
Benzene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
Bromobenzene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
Bromochloromethane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
Bromodichloromethane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
Bromoform	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
Bromomethane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
<b>tert-Butanol (TBA)</b>	<b>38.2</b>		ug/L	10.0	10.0	1	10/05/16	10/05/16 13:42	WB
n-Butylbenzene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
sec-Butylbenzene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
tert-Butylbenzene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
Carbon tetrachloride	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
Chlorobenzene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
Chloroethane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
Chloroform	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
Chloromethane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
2-Chlorotoluene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
4-Chlorotoluene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
Dibromochloromethane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
1,2-Dibromo-3-chloropropane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
1,2-Dibromoethane (EDB)	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
Dibromomethane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
1,2-Dichlorobenzene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
1,3-Dichlorobenzene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
1,4-Dichlorobenzene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
Dichlorodifluoromethane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
1,1-Dichloroethane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
1,2-Dichloroethane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
1,1-Dichloroethene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
cis-1,2-Dichloroethene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
trans-1,2-Dichloroethene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
1,2-Dichloropropane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
1,3-Dichloropropane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB

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**Analytical Results**

**Project: MYERSVILLE CROWN**

Project Number: 06-170  
Project Manager: Michael Robertson

Reported:  
10/11/16 12:16

**PW-2B (MID 2)**

**6093013-03 (Potable Water)**

**Sample Date: 09/30/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>VOLATILE ORGANICS BY EPA METHOD 524.2 (GC/MS) (continued)</b>									
2,2-Dichloropropane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
1,1-Dichloropropene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
cis-1,3-Dichloropropene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
trans-1,3-Dichloropropene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
Diisopropyl ether (DIPE)	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
Ethyl tert-butyl ether (ETBE)	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
Ethylbenzene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
Hexachlorobutadiene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
Isopropylbenzene (Cumene)	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
4-Isopropyltoluene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
Methylene chloride	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
Naphthalene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
n-Propylbenzene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
Styrene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
Tetrachloroethene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
Toluene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
1,2,3-Trichlorobenzene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
1,2,4-Trichlorobenzene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
1,1,1-Trichloroethane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
1,1,2-Trichloroethane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
Trichloroethene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
Trichlorofluoromethane (Freon 11)	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
1,2,3-Trichloropropane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
1,2,4-Trimethylbenzene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
1,3,5-Trimethylbenzene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
Vinyl chloride	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
o-Xylene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
m- & p-Xylenes	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 13:42	WB
Surrogate: 4-Bromofluorobenzene		80-120		90 %	10/05/16		10/05/16 13:42		
Surrogate: 1,2-Dichlorobenzene-d4		80-120		99 %	10/05/16		10/05/16 13:42		

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**Analytical Results**

**Project: MYERSVILLE CROWN**

Project Number: 06-170  
Project Manager: Michael Robertson

Reported:  
10/11/16 12:16

**PW-2B (MID 2)**

**6093013-03 (Potable Water)**  
**Sample Date: 09/30/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>GASOLINE RANGE ORGANICS BY EPA 8015B</b>									
Gasoline-Range Organics	ND		ug/L	100	100	1	10/05/16	10/05/16 18:44	GM
Surrogate: <i>a,a,a</i> -Trifluorotoluene			85-115	103 %	10/05/16		10/05/16 18:44		
<b>DIESEL RANGE ORGANICS BY EPA 3510/8015B</b>									
Diesel-Range Organics	ND		mg/L	0.20	0.20	1	10/07/16	10/10/16 23:49	CMK
Surrogate: <i>o</i> -Terphenyl			60-120	92 %	10/07/16		10/10/16 23:49		

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Will Brewington, Staff Chemist

## Analytical Results

**Project: MYERSVILLE CROWN**

Project Number: 06-170  
Project Manager: Michael Robertson

Reported:  
10/11/16 12:16

**PW-3 (EFF)**

**6093013-04 (Potable Water)**

**Sample Date: 09/30/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>VOLATILE ORGANICS BY EPA METHOD 524.2 (GC/MS)</b>									
tert-Amyl alcohol (TAA)	ND		ug/L	10.0	10.0	1	10/05/16	10/05/16 14:15	WB
tert-Amyl methyl ether (TAME)	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
Benzene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
Bromobenzene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
Bromochloromethane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
Bromodichloromethane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
Bromoform	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
Bromomethane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
<b>tert-Butanol (TBA)</b>	<b>27.6</b>		ug/L	10.0	10.0	1	10/05/16	10/05/16 14:15	WB
n-Butylbenzene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
sec-Butylbenzene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
tert-Butylbenzene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
Carbon tetrachloride	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
Chlorobenzene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
Chloroethane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
Chloroform	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
Chloromethane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
2-Chlorotoluene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
4-Chlorotoluene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
Dibromochloromethane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
1,2-Dibromo-3-chloropropane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
1,2-Dibromoethane (EDB)	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
Dibromomethane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
1,2-Dichlorobenzene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
1,3-Dichlorobenzene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
1,4-Dichlorobenzene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
Dichlorodifluoromethane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
1,1-Dichloroethane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
1,2-Dichloroethane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
1,1-Dichloroethene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
cis-1,2-Dichloroethene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
trans-1,2-Dichloroethene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
1,2-Dichloropropane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
1,3-Dichloropropane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB

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Will Brewington, Staff Chemist

**Analytical Results**

**Project: MYERSVILLE CROWN**

Project Number: 06-170  
Project Manager: Michael Robertson

Reported:  
10/11/16 12:16

**PW-3 (EFF)**

**6093013-04 (Potable Water)**

**Sample Date: 09/30/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>VOLATILE ORGANICS BY EPA METHOD 524.2 (GC/MS) (continued)</b>									
2,2-Dichloropropane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
1,1-Dichloropropene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
cis-1,3-Dichloropropene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
trans-1,3-Dichloropropene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
Diisopropyl ether (DIPE)	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
Ethyl tert-butyl ether (ETBE)	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
Ethylbenzene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
Hexachlorobutadiene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
Isopropylbenzene (Cumene)	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
4-Isopropyltoluene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
Methylene chloride	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
Naphthalene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
n-Propylbenzene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
Styrene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
Tetrachloroethene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
Toluene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
1,2,3-Trichlorobenzene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
1,2,4-Trichlorobenzene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
1,1,1-Trichloroethane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
1,1,2-Trichloroethane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
Trichloroethene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
Trichlorofluoromethane (Freon 11)	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
1,2,3-Trichloropropane	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
1,2,4-Trimethylbenzene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
1,3,5-Trimethylbenzene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
Vinyl chloride	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
o-Xylene	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
m- & p-Xylenes	ND		ug/L	0.50	0.50	1	10/05/16	10/05/16 14:15	WB
Surrogate: 4-Bromofluorobenzene		80-120		92 %	10/05/16		10/05/16 14:15		
Surrogate: 1,2-Dichlorobenzene-d4		80-120		92 %	10/05/16		10/05/16 14:15		

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Will Brewington, Staff Chemist

**Analytical Results**

**Project: MYERSVILLE CROWN**

Project Number: 06-170  
Project Manager: Michael Robertson

Reported:  
10/11/16 12:16

**PW-3 (EFF)**

**6093013-04 (Potable Water)**  
**Sample Date: 09/30/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>GASOLINE RANGE ORGANICS BY EPA 8015B</b>									
Gasoline-Range Organics	ND		ug/L	100	100	1	10/05/16	10/05/16 19:23	GM
Surrogate: a,a,a-Trifluorotoluene			85-115	102 %	10/05/16		10/05/16 19:23		
<b>DIESEL RANGE ORGANICS BY EPA 3510/8015B</b>									
Diesel-Range Organics	ND		mg/L	0.18	0.18	1	10/07/16	10/11/16 00:16	CMK
Surrogate: o-Terphenyl			60-120	92 %	10/07/16		10/11/16 00:16		



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## Analytical Results

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

**Project: MYERSVILLE CROWN**

Project Number: 06-170  
Project Manager: Michael Robertson

Reported:  
10/11/16 12:16

### Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference

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Will Brewington, Staff Chemist

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