



Advanced Environmental Concepts, Inc.

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

## **Q3 2015 MW Sampling Report**

### **Site Location:**

Green Valley Garage  
11602 Finger Board Rd  
Monrovia, MD 21770

MDE Case # 2000-1301-FR

### **Prepared For:**

Mr. Ron Anderson  
Green Valley Garage  
11602 Finger Board Rd  
Monrovia, MD 21770

October 29, 2015

# **SIGNATURE SHEET**

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## **1.0 Introduction**

This Q3 2015 Monitoring Well Sampling Report has been prepared at the request of Mr. Anderson for the Green Valley Garage located at 11602 Fingerboard Road Monrovia, MD ; referred to herein as the "site".

## **2.0 Groundwater Monitoring**

Groundwater monitoring activities for Q3 2015 included the gauging and sampling of the monitoring well network as well as the sampling of the domestic supply well (DSW).

### **2.1 Monitoring Well Gauging & Sampling**

On 09/30/2015, AEC personnel arrived on site to gauge and sample the monitoring well network. Prior to sampling, each well was gauged for the presence/absence of LPH as well as depth to groundwater with an electronic oil/water interface meter. LPH was not detected in any of the site wells. After gauging, each well was purged a total of three well volumes of water. Purged groundwater was treated with activated carbon prior to being discharged to the ground. After purging, groundwater was allowed to recover to a minimum of 90% pre purge levels prior to sample collection. Groundwater samples were collected using pre-packaged, single use, disposable bailers and placed in laboratory supplied VOA's and then placed in a cooler with ice and chain of custody record for delivery to the laboratory.

MW-2 was dry and was unable to be sampled. All groundwater samples were delivered on ice with a chain of custody record, trip blank and temperature blank to AECs laboratory to be analyzed by EPA Method 8260 for volatile organic compounds (VOCs).

### **2.2 Domestic Supply Well Sampling**

On 09/30/2015 AEC personnel sampled the site's point of entry treatment (POET) system. The samples were collected by an MDE certified Drinking Water Sampler ID # BW0877. These samples were analyzed for the presence of VOCs by EPA Method 524.2.

## **3.0 Results of Groundwater Sampling**

### **3.1 Groundwater Elevation & Flow Direction**

Relative groundwater elevations observed during the 09/30/2015 sampling event ranged from 361.39 feet in MW-1 (highest) to 347.78 feet in MW-7 (lowest). Based on the survey data and the depth to groundwater measurements collected, the groundwater elevation contours depict groundwater flow to north-northwest in the direction of MW-7.

### **3.2 Monitoring Well Sampling results**

Method detectable concentrations of VOCs were observed in all of the groundwater samples collected from the sites monitoring well network with the exception of MW-3 and MW-7. MW-2 was dry and unable to be sampled. The highest concentrations of the fuel oxygenate MTBE were observed in the groundwater sample collected from the MW-5 at a concentration of 5,640 ug/L. The following table depicts Q3 2015 concentrations compared to the historical high for each MW:

Well ID	MTBE Historical High	Q3 2015	% Reduction
MW-1	43600	279	99.36%
MW-2	29600	NS	NA
MW-3	8100	ND	100.00%
MW-4	11000	2120	80.73%
MW-5	5640	5640	0.00%
MW-6	1920	1920	0.00%
MW-7	992	ND	100.00%
Former DSW	12880	852	93.39%
DSW Influent	1100	ND	100.00%

All MWs exhibited reduction in Q3 2015 from the historical high MTBE concentration with the exceptions of MW-5 and MW-6 which had historically high method detectable concentrations.

A Quick Reference Historical Groundwater Sampling Summary Table which summarizes current and historical groundwater sampling analytical results can be found in Appendix B. A full Report of Analysis and Chain of Custody Record can be found in Appendix C.

### 3.3 Domestic Supply Well Sampling Results

Method detectable concentrations of VOCs were not observed in the influent (pre-treatment) or effluent (post-treatment) drinking water samples collected from the DSW.

### 4.0 Future Activities

The next semi-annual monitoring well sampling event is scheduled for March of 2016.

### 5.0 Appendices

**Appendix A**  
**Site Maps**

**GW Elevation Summary**

MW-1 = 361.39

MW-2 = 361.27

MW-3 = 359.90

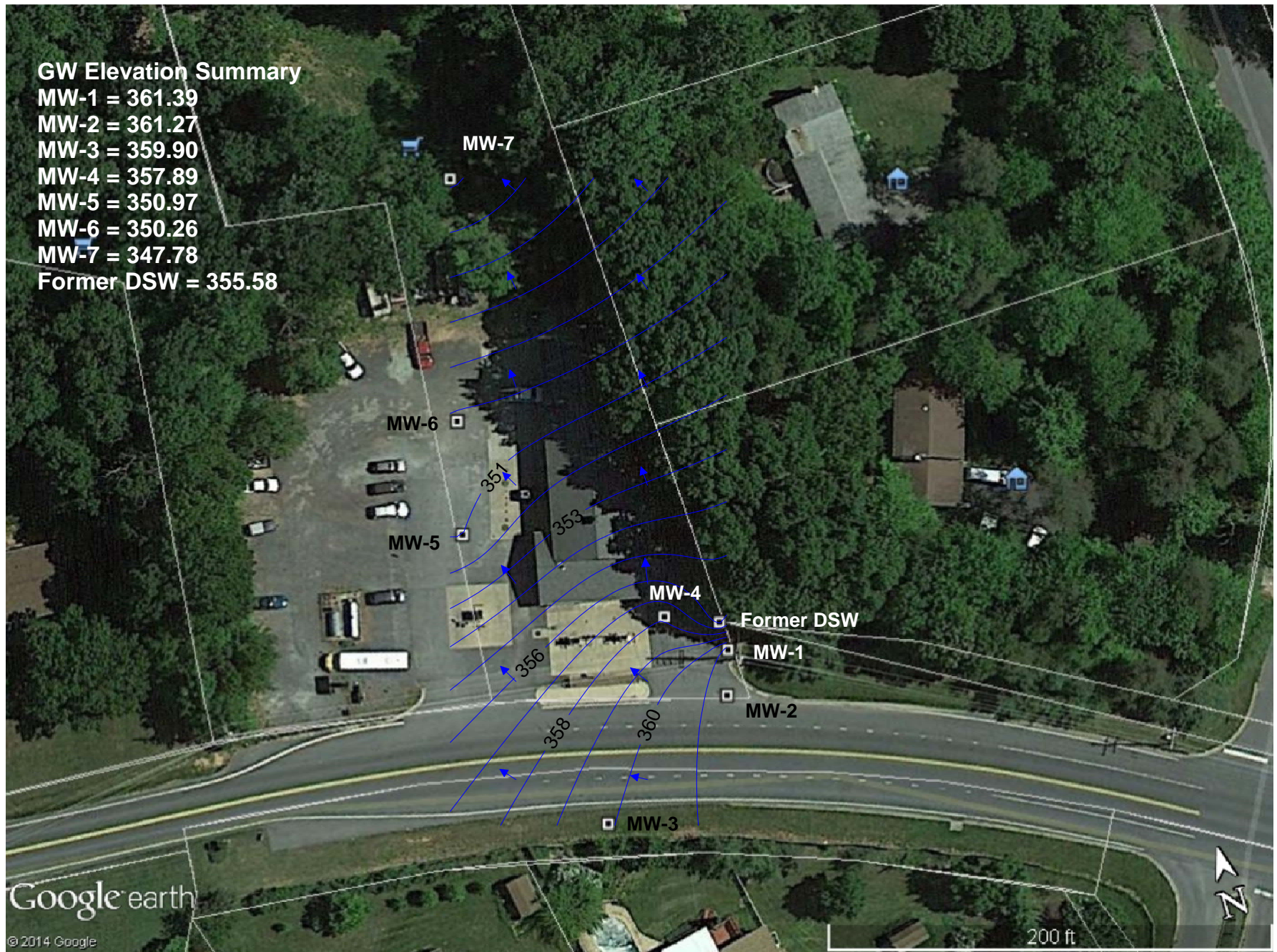
MW-4 = 357.89

MW-5 = 350.97

MW-6 = 350.26

MW-7 = 347.78

Former DSW = 355.58



**Green Valley Garage  
11602 Fingerboard Road  
Monrovia, MD**

**Groundwater Elevation Contour Map Q3 2015  
Contour Interval = 1 foot**

**Appendix B**  
**Groundwater Gauging & Analytical Tables**



Green Valley Garage  
 11602 Fingerboard Road Monrovia, MD  
 Historical Monitoring Well Sampling Analytical Summary

MW ID	Date	DTGW (ft)	GW Elevation	MTBE	Benzene	Toluene	Ethyl benzene	Xylenes	Naphthalene
<b>MDE GNCS, Type I and II Aquifers</b>				<b>20</b>	<b>5</b>	<b>1,000</b>	<b>700</b>	<b>10,000</b>	<b>NG</b>
<b>MW-1</b>	02/01/07	57.69	363.98	9280	119	ND	ND	47.4	ND
<b>TOC Elevation</b>	08/01/07	59.87	361.80	43600	144	ND	ND	45.0	5.00
<b>421.67</b>	05/01/08	59.56	362.11	42400	156	ND	ND	68.0	ND
	06/01/09	56.69	364.98	14720	24.1	ND	ND	ND	ND
	06/01/10	57.15	364.52	5920	14.4	5.61	15.2	17.6	ND
	03/11/11	60.02	361.65	6360	ND	26.8	ND	ND	ND
	02/15/12	55.90	365.77	3988	ND	ND	ND	ND	ND
	03/22/13	55.60	366.07	1160	ND	ND	ND	ND	ND
	03/18/14	54.75	366.92	297	ND	ND	ND	ND	ND
	06/20/14	53.02	368.65	244	ND	ND	ND	ND	ND
	09/30/14	58.22	363.45	330	ND	ND	ND	ND	ND
	03/31/15	56.12	365.55	231	ND	ND	ND	ND	ND
	09/30/15	60.28	361.39	279	ND	ND	ND	ND	ND
<b>MW-2</b>	02/01/07	55.64	363.58	362	11.9	ND	ND	ND	6.52
<b>TOC Elevation</b>	08/01/07	57.85	361.37	29600	111	ND	ND	7.00	7.00
<b>419.22</b>	05/01/08	57.49	361.73	24000	208	ND	ND	7.00	ND
	06/01/09	55.17	364.05	9120	43.1	30.6	ND	110	ND
	06/01/10	55.18	364.04	1360	308	ND	ND	ND	ND
	03/11/11	58.24	360.98	2970	ND	ND	ND	ND	ND
	02/15/12	53.82	365.40	11120	ND	ND	ND	ND	ND
	03/22/13	53.46	365.76	5560	ND	ND	ND	ND	ND
	03/18/14	52.50	366.72	1440	ND	ND	ND	ND	ND
	06/20/14	50.79	368.43	755	ND	ND	ND	ND	ND
	09/30/14	Dry	NA	NA	NA	NA	NA	NA	NA
	03/31/15	54.64	364.58	122	ND	ND	ND	ND	ND
	09/30/15	Dry	NA	NS	NS	NS	NS	NS	NS
<b>MW-3</b>	02/01/07	54.72	363.39	ND	ND	ND	ND	ND	ND
<b>TOC Elevation</b>	08/01/07	62.38	355.73	4400	11.0	ND	ND	ND	ND
<b>418.11</b>	05/01/08	62.30	355.81	4640	ND	ND	ND	ND	ND
	06/01/09	51.69	366.42	2450	ND	ND	ND	ND	ND
	06/01/10	59.29	358.82	357	34.9	ND	ND	ND	ND
	03/11/11	63.70	354.41	8100	14.4	ND	ND	ND	ND

Green Valley Garage  
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MW ID	Date	DTGW (ft)	GW Elevation	MTBE	Benzene	Toluene	Ethyl benzene	Xylenes	Naphthalene
<b>MDE GNCS, Type I and II Aquifers</b>				<b>20</b>	<b>5</b>	<b>1,000</b>	<b>700</b>	<b>10,000</b>	<b>NG</b>
<b>MW-3</b>	02/15/12	55.23	362.88	5640	ND	ND	ND	ND	ND
<b>TOC Elevation 418.11</b>	03/22/13	54.38	363.73	2276	ND	ND	ND	ND	ND
	03/18/14	53.56	364.55	636	ND	ND	ND	ND	ND
	06/20/14	51.04	367.07	3920	29.9	ND	13.1	87.2	5.99
	09/30/14	60.24	357.87	226	ND	ND	ND	ND	ND
	03/31/15	54.07	364.04	690	ND	ND	ND	ND	ND
	09/30/15	58.21	359.90	ND	ND	ND	ND	ND	ND
<b>MW-4</b>	02/01/07	62.69	359.78	524	154	ND	ND	9.26	ND
<b>TOC Elevation 422.47</b>	08/01/07	65.26	357.21	7560	78.1	ND	ND	ND	ND
	05/01/08	65.19	357.28	11000	62	ND	ND	ND	ND
	06/01/09	61.09	361.38	5360	13.1	ND	ND	ND	ND
	06/01/10	62.43	360.04	1840	11.8	ND	ND	ND	ND
	03/11/11	63.62	358.85	256	ND	ND	ND	ND	ND
	02/15/12	60.17	362.30	9990	6.76	ND	ND	ND	ND
	03/22/13	58.98	363.49	2440	ND	ND	ND	ND	ND
	03/18/14	58.33	364.14	880	ND	ND	ND	ND	ND
	06/20/14	56.36	366.11	776	ND	ND	ND	ND	ND
	09/30/14	62.21	360.26	1680	22.2	5.87	ND	137	8.14
	03/31/15	59.82	362.65	1000	ND	11.6	ND	ND	ND
	09/30/15	64.58	357.89	2120	ND	ND	ND	ND	ND
<b>MW-5</b>	02/01/07	69.97	353.88	ND	ND	ND	ND	ND	ND
<b>TOC Elevation 423.85</b>	08/01/07	73.41	350.44	11.0	ND	ND	ND	ND	ND
	05/01/08	73.23	350.62	ND	ND	ND	ND	ND	ND
	06/01/09	70.24	353.61	413	ND	ND	ND	ND	ND
	06/01/10	59.29	364.56	460	112	ND	ND	ND	ND
	03/11/11	75.49	348.36	3120	ND	ND	ND	ND	ND
	02/15/12	66.80	357.05	366	ND	ND	ND	ND	ND
	03/22/13	64.47	359.38	64.5	ND	ND	ND	ND	ND
	03/18/14	64.10	359.75	114	ND	ND	ND	ND	ND
	06/20/14	61.54	362.31	382	ND	ND	ND	ND	ND
	09/30/14	70.83	353.02	714	ND	ND	ND	ND	ND
	03/31/15	67.09	356.76	2600	ND	ND	ND	ND	ND

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Historical Monitoring Well Sampling Analytical Summary

MW ID	Date	DTGW (ft)	GW Elevation	MTBE	Benzene	Toluene	Ethyl benzene	Xylenes	Naphthalene
<b>MDE GNCS, Type I and II Aquifers</b>				<b>20</b>	<b>5</b>	<b>1,000</b>	<b>700</b>	<b>10,000</b>	<b>NG</b>
<b>MW-5</b>	09/30/15	72.88	350.97	5640	ND	ND	ND	ND	ND
<b>MW-6</b>	02/01/07	69.76	354.24	ND	ND	ND	ND	ND	ND
<b>TOC Elevation 424.00</b>	08/01/07	73.37	350.63	6.00	ND	ND	ND	ND	ND
	05/01/08	73.16	350.84	ND	ND	ND	ND	ND	ND
	06/01/09	69.67	354.33	ND	ND	ND	ND	ND	ND
	06/01/10	70.20	353.80	1720	331	ND	ND	ND	ND
	03/11/11	74.34	349.66	134	ND	ND	ND	ND	ND
	02/15/12	67.10	356.90	1550	ND	ND	ND	ND	ND
	03/22/13	64.82	359.18	ND	ND	ND	ND	ND	ND
	03/18/14	64.14	359.86	305	ND	ND	ND	ND	ND
	06/20/14	61.63	362.37	617	ND	ND	ND	ND	ND
	09/30/14	71.25	352.75	55.4	ND	ND	ND	ND	ND
	03/31/15	67.50	356.50	ND	ND	ND	ND	ND	ND
	09/30/15	73.74	350.26	1920	ND	ND	ND	ND	ND
<b>MW-7</b>	02/01/07	70.84	347.53	ND	ND	ND	ND	ND	ND
<b>TOC Elevation 418.37</b>	08/01/07	72.94	345.43	52.0	ND	ND	ND	ND	ND
	05/01/08	72.54	345.83	168	ND	ND	ND	ND	ND
	06/01/09	70.37	348.00	992	ND	ND	ND	ND	ND
	06/01/10	69.13	349.24	ND	ND	ND	ND	ND	ND
	03/11/11	76.64	341.73	792	ND	ND	46.6	ND	ND
	02/15/12	66.68	351.69	585	ND	ND	ND	ND	ND
	03/22/13	64.78	353.59	ND	ND	ND	ND	ND	ND
	03/18/14	64.39	353.98	ND	ND	ND	ND	ND	ND
	06/20/14	61.53	356.84	ND	ND	ND	ND	ND	ND
	09/30/14	70.32	348.05	ND	ND	ND	ND	ND	ND
	03/31/15	67.43	350.94	ND	ND	ND	ND	ND	ND
	09/30/15	73.59	344.78	ND	ND	ND	ND	ND	ND
<b>Former Domestic</b>	02/01/07	65.48	356.19	1275	346	ND	ND	ND	ND
<b>TOC Elevation 421.67</b>	08/01/07	66.95	354.72	12880	68.0	ND	ND	ND	ND
	05/01/08	66.25	355.42	7200	126	ND	ND	ND	ND

Green Valley Garage  
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MW ID	Date	DTGW (ft)	GW Elevation	MTBE	Benzene	Toluene	Ethyl benzene	Xylenes	Naphthalene
<b>MDE GNCS, Type I and II Aquifers</b>				<b>20</b>	<b>5</b>	<b>1,000</b>	<b>700</b>	<b>10,000</b>	<b>NG</b>
<b>Former Domestic</b>	06/01/09	62.95	358.72	4320	79.9	ND	ND	ND	ND
	06/01/10	63.88	357.79	9000	2600	ND	ND	ND	ND
	03/11/11	65.23	356.44	4720	ND	ND	ND	ND	ND
	02/15/12	61.97	359.70	10840	ND	ND	ND	ND	ND
	03/22/13	61.30	360.37	3440	ND	26.2	ND	136	ND
	03/18/14	60.21	361.46	1323	ND	ND	ND	ND	ND
	06/20/14	58.25	363.42	1160	ND	ND	ND	ND	ND
	09/30/14	63.83	357.84	3170	6.78	ND	ND	ND	ND
	03/31/15	61.44	360.23	852	ND	ND	ND	ND	ND
	09/30/15	66.09	355.58	3960	ND	ND	ND	ND	ND
<b>Domestic Supply Influent</b>	02/01/07	NA		NA	NA	NA	NA	NA	NA
	08/01/07	NA		38.0	ND	ND	ND	ND	ND
	05/01/08	NA		410	ND	ND	ND	ND	ND
	06/01/09	NA		984	ND	ND	ND	ND	ND
	06/01/10	NA		2.98	ND	ND	ND	ND	ND
	03/11/11	NA		1100	ND	ND	ND	ND	ND
	02/15/12	NA		6.98	ND	ND	ND	ND	ND
	03/22/13	NA		ND	ND	ND	ND	ND	ND
	03/18/14	NA		0.98	ND	ND	ND	ND	ND
	06/20/14	NA		14.9	ND	ND	ND	ND	ND
	10/24/14	NA		23.8	ND	ND	ND	ND	ND
	03/31/15	NA		115	ND	1.87	ND	1.42	ND
	09/30/15	NA		ND	ND	ND	ND	ND	ND
<b>Domestic Supply Effluent</b>	02/01/07	NA		ND	ND	ND	ND	ND	ND
	08/01/07	NA		ND	ND	ND	ND	ND	ND
	05/01/08	NA		4.40	ND	ND	ND	ND	ND
	06/01/09	NA		168	ND	ND	ND	ND	ND
	06/01/10	NA		ND	ND	ND	ND	ND	ND

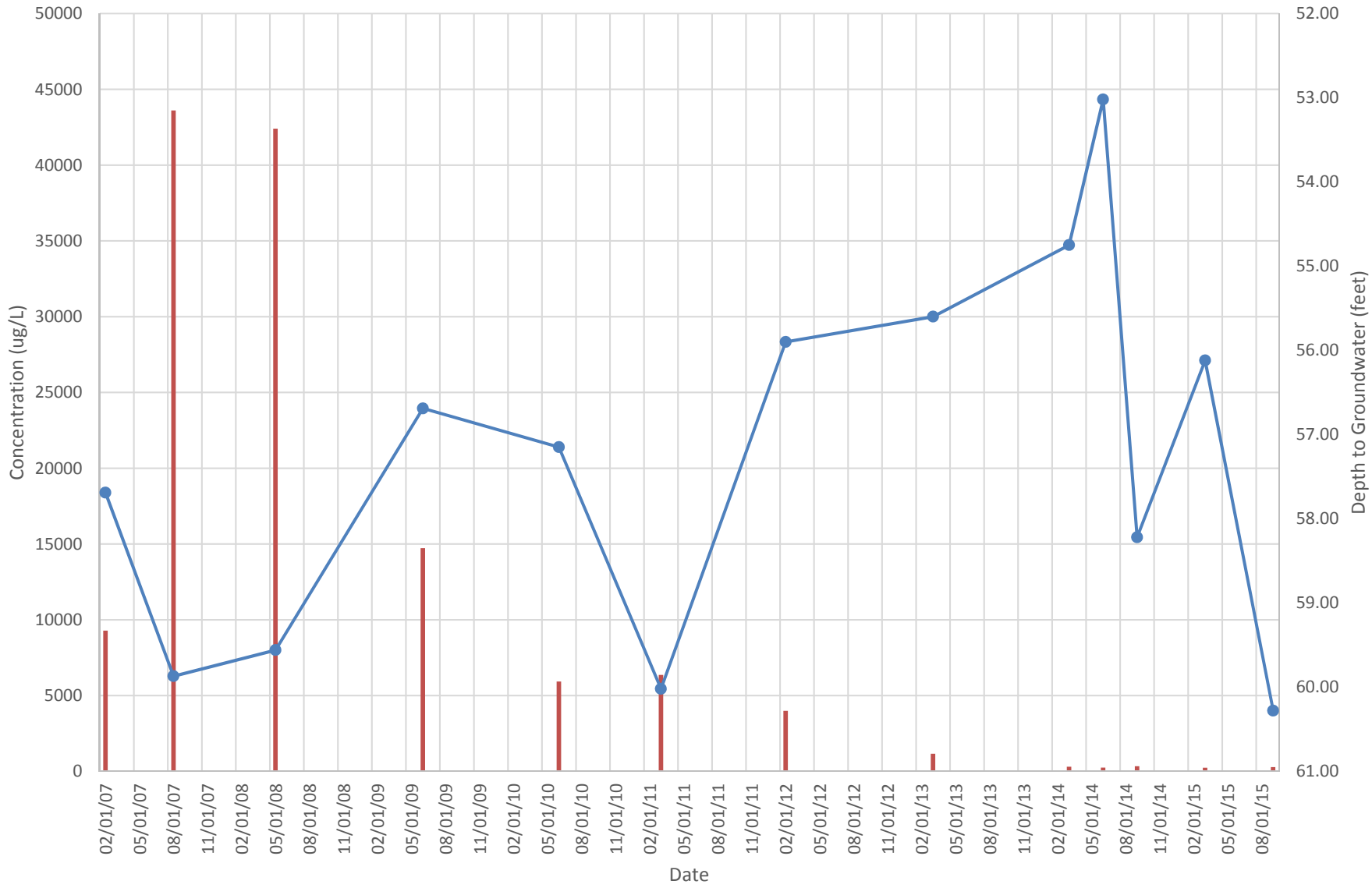
Green Valley Garage  
 11602 Fingerboard Road Monrovia, MD  
 Historical Monitoring Well Sampling Analytical Summary

MW ID	Date	DTGW (ft)	GW Elevation	MTBE	Benzene	Toluene	Ethyl benzene	Xylenes	Naphthalene
<b>MDE GNCS, Type I and II Aquifers</b>				<b>20</b>	<b>5</b>	<b>1,000</b>	<b>700</b>	<b>10,000</b>	<b>NG</b>
<b>Domestic Supply Effluent</b>	03/11/11	NA		232	ND	ND	ND	ND	ND
	02/15/12	NA		ND	ND	ND	ND	ND	ND
	03/22/13	NA		ND	ND	ND	ND	ND	ND
	03/18/14	NA		4.14	ND	ND	ND	ND	ND
	06/20/14	NA		ND	ND	ND	ND	ND	ND
	10/24/14	NA		60.7	ND	ND	ND	ND	ND
	03/31/15	NA		ND	ND	ND	ND	ND	ND
	09/30/15	NA		ND	ND	ND	ND	ND	ND

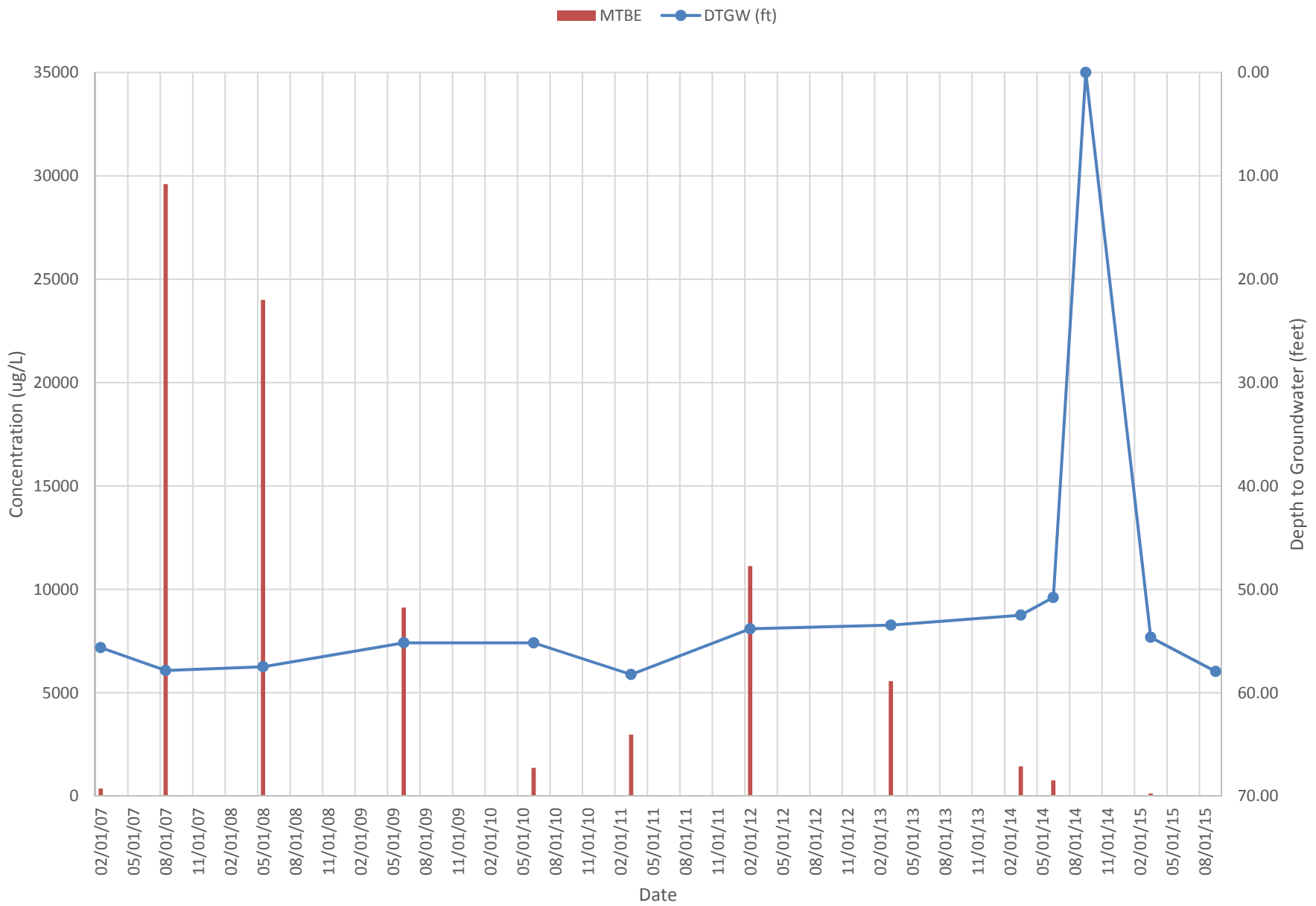
ND- Indicates concentration below method detectable concentrations  
 Water samples concentrations in ug/L

### MW-1 Change in Depth to Groundwater & MTBE Concentration Over Time

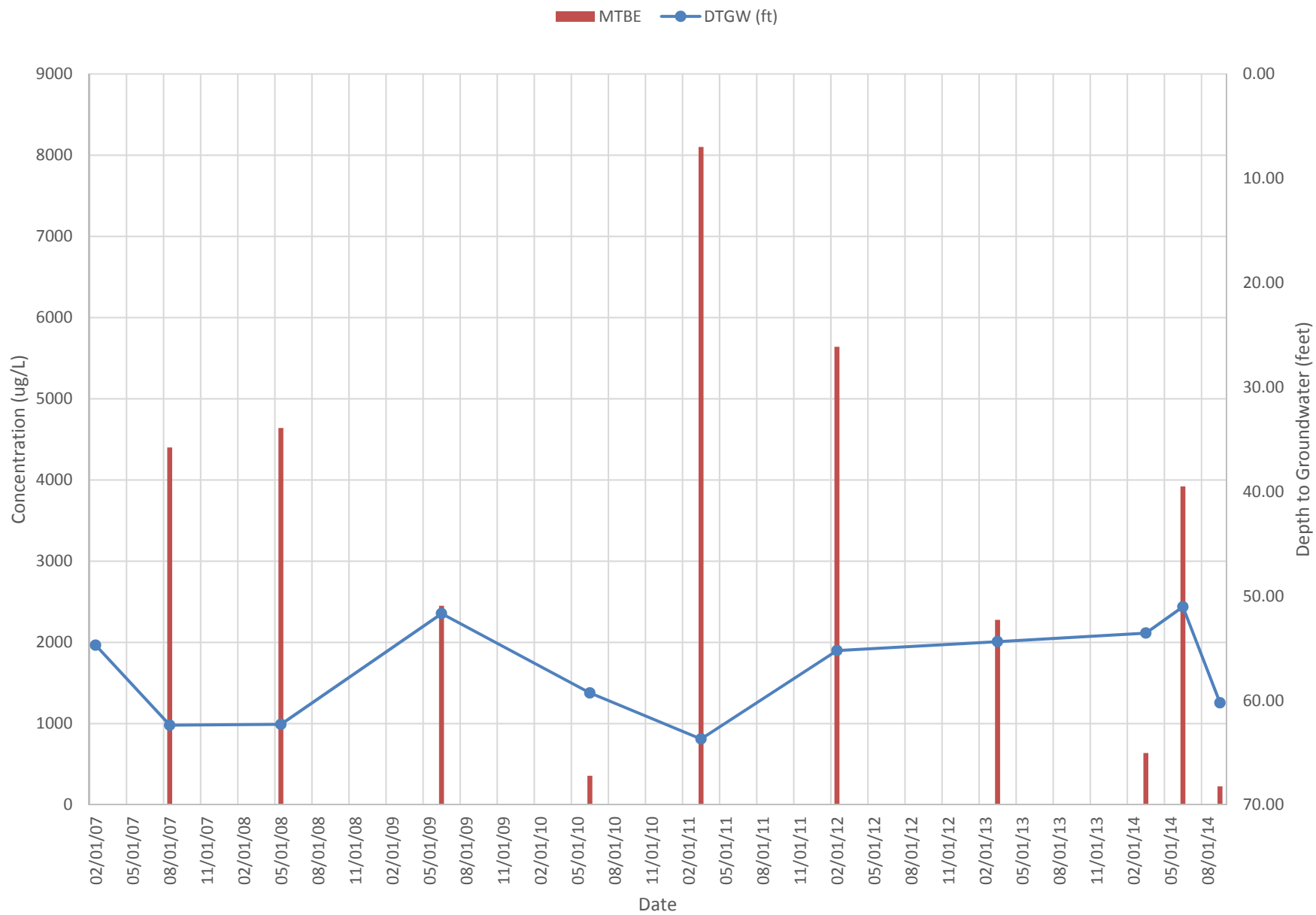
■ MTBE ● DTGW (ft)



### MW-2 Change in Depth to Groundwater & MTBE Concentration Over Time



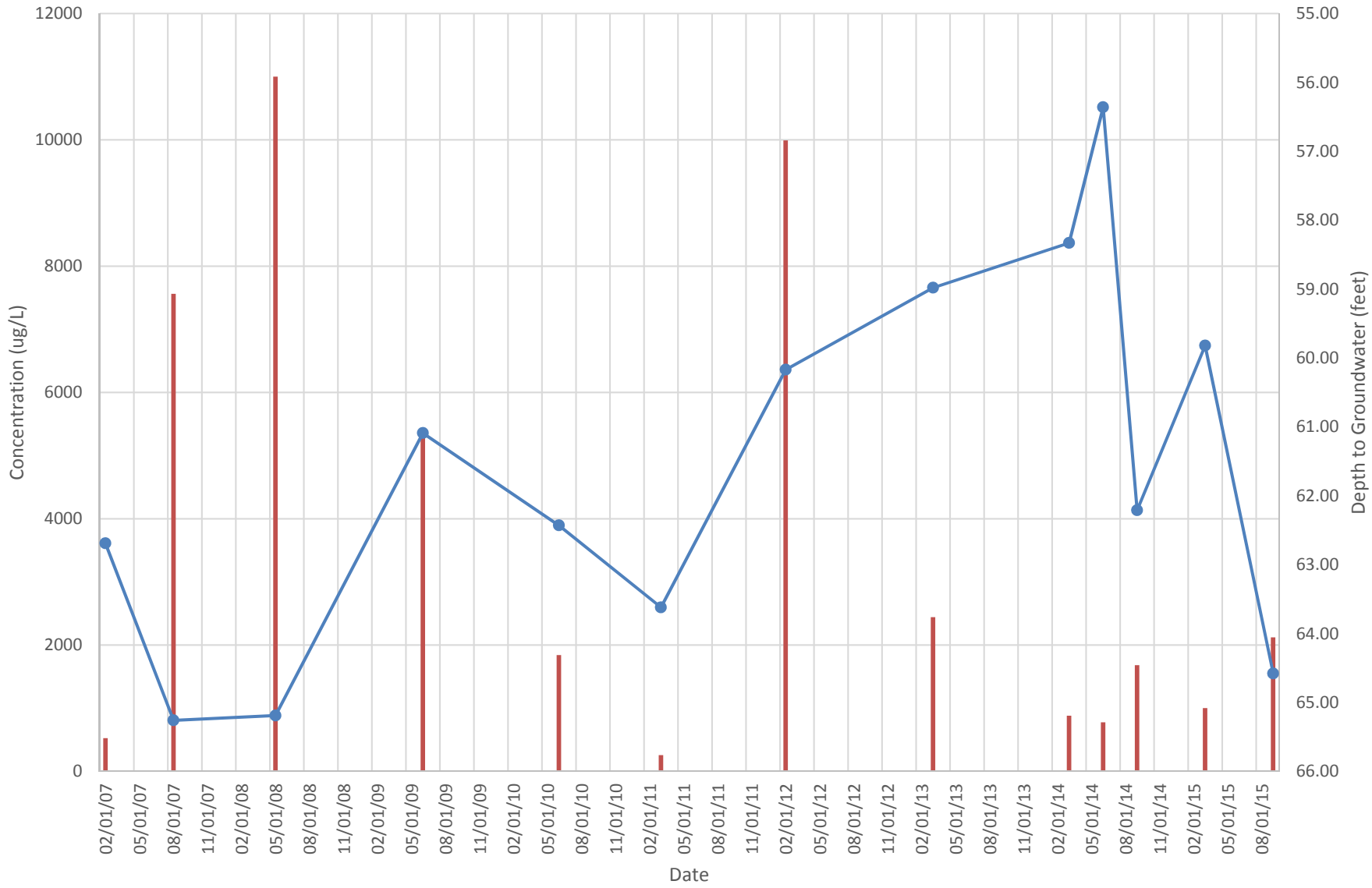
### MW-3 Change in Depth to Groundwater & MTBE Concentration Over Time



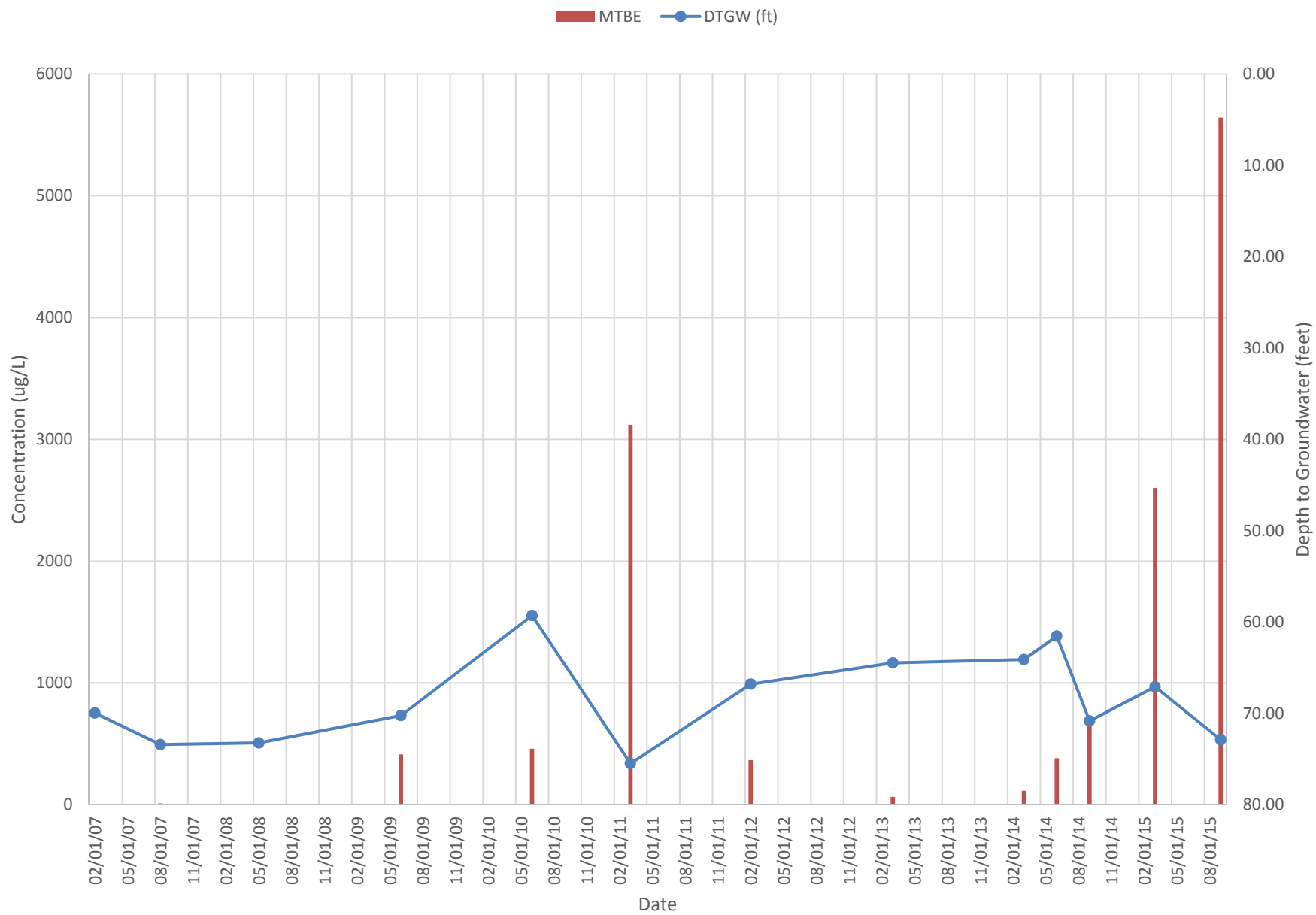


### MW-4 Change in Depth to Groundwater & MTBE Concentration Over Time

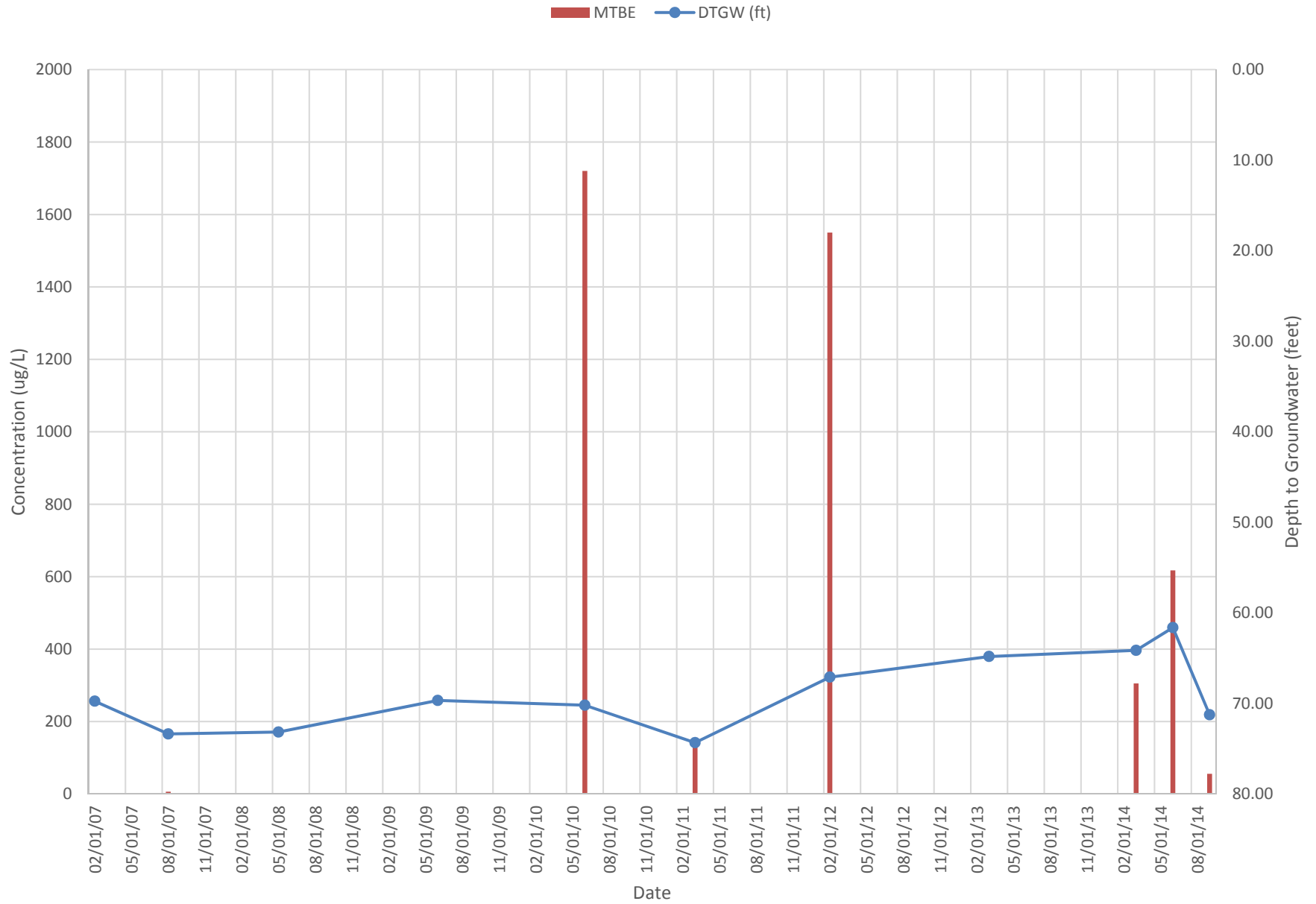
■ MTBE ● DTGW (ft)



### MW-5 Change in Depth to Groundwater & MTBE Concentration Over Time

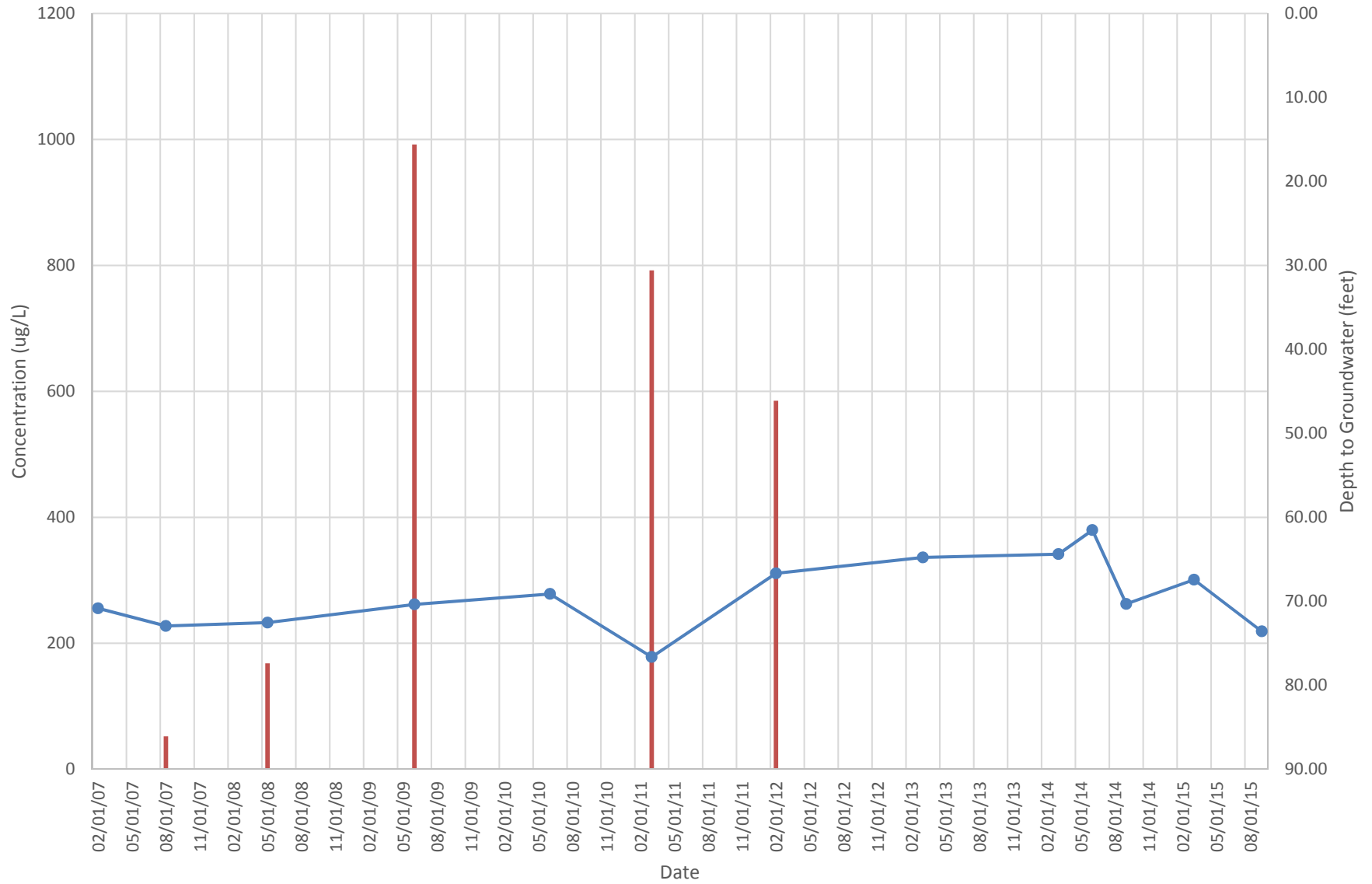


# MW-6 Change in Depth to Groundwater & MTBE Concentration Over Time



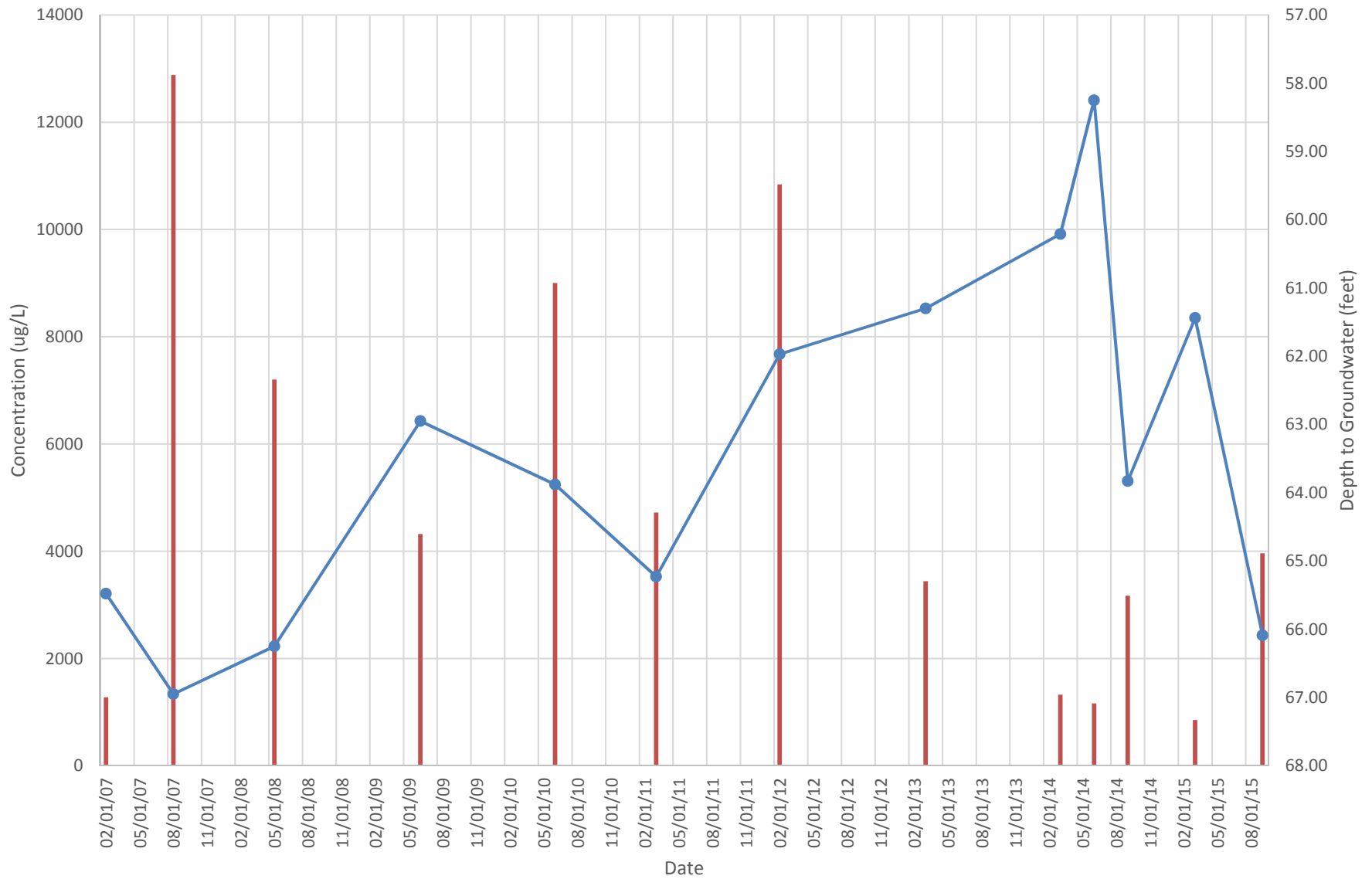
### MW-7 Change in Depth to Groundwater & MTBE Concentration Over Time

MTBE DTGW (ft)

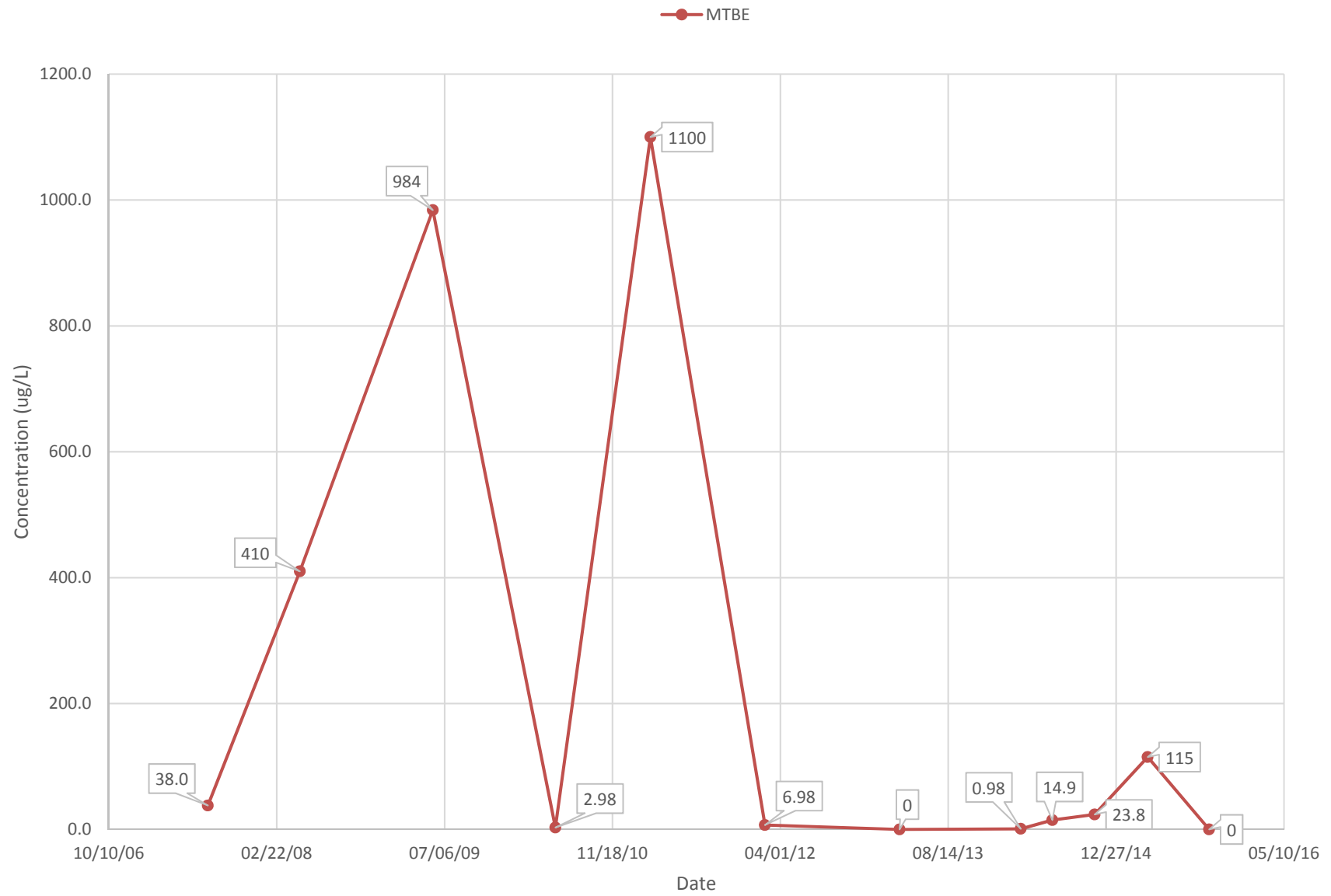


### Former DSW Change in Depth to Groundwater & MTBE Concentration Over Time

■ MTBE ● DTGW (ft)



### DSW Change in Influent MTBE Concentration Over Time



**Appendix C**  
**Report of Analysis & Chain of Custody Record**

# ADVANCED ENVIRONMENTAL CONCEPTS, INC.

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

## Certificate of Analysis

<b>Sample Identification:</b>	TRIP BLANK	<b>Project Identification:</b>	GREEN VALLEY GARAGE
<b>MATRIX:</b>	water	<b>Client Identification:</b>	RON ANDERSON
<b>Sample Date:</b>	9/30/2015	<b>Client Telephone:</b>	
<b>Date Received:</b>	9/30/2015	<b>Client Fax:</b>	
<b>Extraction Date:</b>	na	<b>Analyst:</b>	MM
<b>Analysis Date:</b>	10/12/2015	<b>Lab File:</b>	101215.D16

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



# ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 5292 Enterprise Street Suite C, Eldersburg, MD 21784 Phone 410-795-5955 Fax 410-795-9459

## Certificate of Analysis

Sample Identification:	TRIP BLANK	Project Identification:	GREEN VALLEY GARAGE
MATRIX:	water	Client Identification:	RON ANDERSON
Sample Date:	9/30/2015	Client Telephone:	
Date Received:	9/30/2015	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	10/12/2015	Lab File:	101215.D16

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

### SURROGATE SPIKE

1,2-Dichloroethane-d4	%	118	EPA 524.2
Dibromofluoromethane	%	121	EPA 524.2
Toluene-d8	%	88	EPA 524.2
Bromofluorobenzene	%	97	EPA 524.2

MDE Drinking Water Supply Laboratory Certification #333

# ADVANCED ENVIRONMENTAL CONCEPTS, INC.

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

## Certificate of Analysis

<b>Sample Identification:</b>	<b>EFFLUENT</b>	<b>Project Identification:</b>	<b>GREEN VALLEY GARAGE</b>
<b>MATRIX:</b>	<b>water</b>	<b>Client Identification:</b>	<b>RON ANDERSON</b>
<b>Sample Date:</b>	<b>9/30/2015</b>	<b>Client Telephone:</b>	
<b>Date Received:</b>	<b>9/30/2015</b>	<b>Client Fax:</b>	
<b>Extraction Date:</b>	<b>na</b>	<b>Analyst:</b>	<b>MM</b>
<b>Analysis Date:</b>	<b>10/12/2015</b>	<b>Lab File:</b>	<b>101215.D17</b>

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

# ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 5292 Enterprise Street Suite C, Eldersburg, MD 21784 Phone 410-795-5955 Fax 410-795-9459

## Certificate of Analysis

<b>Sample Identification:</b>	<b>EFFLUENT</b>	<b>Project Identification:</b>	<b>GREEN VALLEY GARAGE</b>
<b>MATRIX:</b>	<b>water</b>	<b>Client Identification:</b>	<b>RON ANDERSON</b>
<b>Sample Date:</b>	<b>9/30/2015</b>	<b>Client Telephone:</b>	
<b>Date Received:</b>	<b>9/30/2015</b>	<b>Client Fax:</b>	
<b>Extraction Date:</b>	<b>na</b>	<b>Analyst:</b>	<b>MM</b>
<b>Analysis Date:</b>	<b>10/12/2015</b>	<b>Lab File:</b>	<b>101215.D17</b>

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

### SURROGATE SPIKE

1,2-Dichloroethane-d4	%	121	EPA 524.2
Dibromofluoromethane	%	124	EPA 524.2
Toluene-d8	%	89	EPA 524.2
Bromofluorobenzene	%	99	EPA 524.2

MDE Drinking Water Supply Laboratory Certification #333

# ADVANCED ENVIRONMENTAL CONCEPTS, INC.

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

## Certificate of Analysis

<b>Sample Identification:</b>	<b>INFLUENT</b>	<b>Project Identification:</b>	<b>GREEN VALLEY GARAGE</b>
<b>MATRIX:</b>	<b>water</b>	<b>Client Identification:</b>	<b>RON ANDERSON</b>
<b>Sample Date:</b>	<b>9/30/2015</b>	<b>Client Telephone:</b>	
<b>Date Received:</b>	<b>9/30/2015</b>	<b>Client Fax:</b>	
<b>Extraction Date:</b>	<b>na</b>	<b>Analyst:</b>	<b>MM</b>
<b>Analysis Date:</b>	<b>10/12/2015</b>	<b>Lab File:</b>	<b>101215.D18</b>

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

# ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 5292 Enterprise Street Suite C, Eldersburg, MD 21784 Phone 410-795-5955 Fax 410-795-9459

## Certificate of Analysis

Sample Identification:	INFLUENT	Project Identification:	GREEN VALLEY GARAGE
MATRIX:	water	Client Identification:	RON ANDERSON
Sample Date:	9/30/2015	Client Telephone:	
Date Received:	9/30/2015	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	10/12/2015	Lab File:	101215.D18

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

### SURROGATE SPIKE

1,2-Dichloroethane-d4	%	120	EPA 524.2
Dibromofluoromethane	%	126	EPA 524.2
Toluene-d8	%	90	EPA 524.2
Bromofluorobenzene	%	98	EPA 524.2

MDE Drinking Water Supply Laboratory Certification #333

# ADVANCED ENVIRONMENTAL CONCEPTS, INC.

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

## Certificate of Analysis

<b>Sample Identification:</b>	<b>MW-1</b>	<b>Project Identification:</b>	<b>GREEN VALLEY GARAGE</b>
<b>MATRIX:</b>	<b>water</b>	<b>Client Identification:</b>	<b>RON ANDERSON</b>
<b>Sample Date:</b>	<b>9/30/2015</b>	<b>Client Telephone:</b>	
<b>Date Received:</b>	<b>9/30/2015</b>	<b>Client Fax:</b>	
<b>Extraction Date:</b>	<b>10/6/2015</b>	<b>Analyst:</b>	<b>MM</b>
<b>Analysis Date:</b>	<b>10/12/2015</b>	<b>Lab File:</b>	<b>101215.D19</b>

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	5	ug/L	ND	EPA 8260
Chloromethane	5	ug/L	ND	EPA 8260
Vinyl Chloride	5	ug/L	ND	EPA 8260
Bromomethane	5	ug/L	ND	EPA 8260
Chloroethane	5	ug/L	ND	EPA 8260
Trichlorofluoromethane	5	ug/L	ND	EPA 8260
1,1-Dichloroethene	5	ug/L	ND	EPA 8260
tert-Butyl Alcohol (TBA)	50	ug/L	ND	EPA 8260
Methylene Chloride	5	ug/L	ND	EPA 8260
trans-1,2-Dichloroethene	5	ug/L	ND	EPA 8260
Methyl tert-Butyl Ether (MtBE)	5	ug/L	279	EPA 8260
1,1-Dichloroethane	5	ug/L	ND	EPA 8260
Diisopropyl Ether (DIPE)	5	ug/L	ND	EPA 8260
cis-1,2-Dichloroethene	5	ug/L	ND	EPA 8260
Bromochloromethane	5	ug/L	ND	EPA 8260
Chloroform	5	ug/L	ND	EPA 8260
2,2-Dichloropropane	5	ug/L	ND	EPA 8260
Ethyl tert-Butyl Ether (EtBE)	5	ug/L	ND	EPA 8260
1,2-Dichloroethane	5	ug/L	ND	EPA 8260
tert-Amyl Alcohol (TAA)	50	ug/L	ND	EPA 8260
1,1,1-Trichloroethane	5	ug/L	ND	EPA 8260
1,1-Dichloropropene	5	ug/L	ND	EPA 8260
Carbon tetrachloride	5	ug/L	ND	EPA 8260
Benzene	5	ug/L	ND	EPA 8260
tert-Amyl Methyl Ether (TAME)	5	ug/L	70.9	EPA 8260
Dibromomethane	5	ug/L	ND	EPA 8260
1,2-Dichloropropane	5	ug/L	ND	EPA 8260
Trichloroethene	5	ug/L	ND	EPA 8260
Bromodichloromethane	5	ug/L	ND	EPA 8260
tert-Amyl Ethyl Ether (TAEE)	5	ug/L	ND	EPA 8260
cis-1,3-Dichloropropene	5	ug/L	ND	EPA 8260
trans-1,3-Dichloropropene	5	ug/L	ND	EPA 8260
1,1,2-Trichloroethane	5	ug/L	ND	EPA 8260
Toluene	5	ug/L	ND	EPA 8260
1,3-Dichloropropane	5	ug/L	ND	EPA 8260
Dibromochloromethane	5	ug/L	ND	EPA 8260
1,2-Dibromoethane	5	ug/L	ND	EPA 8260
Tetrachloroethene	5	ug/L	ND	EPA 8260
1,1,1,2-Tetrachloroethene	5	ug/L	ND	EPA 8260
Chlorobenzene	5	ug/L	ND	EPA 8260
Ethylbenzene	5	ug/L	ND	EPA 8260

# ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 5292 Enterprise Street Suite C, Eldersburg, MD 21784 Phone 410-795-5955 Fax 410-795-9459

## Certificate of Analysis

<b>Sample Identification:</b>	<b>MW-1</b>	<b>Project Identification:</b>	<b>GREEN VALLEY GARAGE</b>
<b>MATRIX:</b>	<b>water</b>	<b>Client Identification:</b>	<b>RON ANDERSON</b>
<b>Sample Date:</b>	<b>9/30/2015</b>	<b>Client Telephone:</b>	
<b>Date Received:</b>	<b>9/30/2015</b>	<b>Client Fax:</b>	
<b>Extraction Date:</b>	<b>10/6/2015</b>	<b>Analyst:</b>	<b>MM</b>
<b>Analysis Date:</b>	<b>10/12/2015</b>	<b>Lab File:</b>	<b>101215.D19</b>

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	5	ug/L	ND	EPA 8260
Bromoform	5	ug/L	ND	EPA 8260
Styrene	5	ug/L	ND	EPA 8260
o-Xylene	5	ug/L	ND	EPA 8260
1,1,2,2-Tetrachloroethane	5	ug/L	ND	EPA 8260
1,2,3-Trichloropropane	5	ug/L	ND	EPA 8260
Isopropylbenzene	5	ug/L	ND	EPA 8260
Bromobenzene	5	ug/L	ND	EPA 8260
n-Propylbenzene	5	ug/L	ND	EPA 8260
2-Chlorotoluene	5	ug/L	ND	EPA 8260
4-Chlorotoluene	5	ug/L	ND	EPA 8260
1,3,5-Trimethylbenzene	5	ug/L	ND	EPA 8260
tert-Butylbenzene	5	ug/L	ND	EPA 8260
1,2,4-Trimethylbenzene	5	ug/L	ND	EPA 8260
sec-Butylbenzene	5	ug/L	ND	EPA 8260
1,3-Dichlorobenzene	5	ug/L	ND	EPA 8260
1,4-Dichlorobenzene	5	ug/L	ND	EPA 8260
1,2-Dichlorobenzene	5	ug/L	ND	EPA 8260
p-iso-Propyltoluene	5	ug/L	ND	EPA 8260
n-Butylbenzene	5	ug/L	ND	EPA 8260
1,2-Dibromo-3-chloropropane	5	ug/L	ND	EPA 8260
1,2,4-Trichlorobenzene	5	ug/L	ND	EPA 8260
Naphthalene	5	ug/L	ND	EPA 8260
Hexachlorobutadiene	5	ug/L	ND	EPA 8260
1,2,3-Trichlorobenzene	5	ug/L	ND	EPA 8260
TPH GRO	100	ug/L	360	EPA 8015B
TPH DRO	500	ug/L	ND	EPA 8015B

### SURROGATE SPIKE

1,2-Dichloroethane-d4		%	104	EPA 8260
Dibromofluoromethane		%	106	EPA 8260
TFT		%	100	EPA 8015B
Toluene-d8		%	91	EPA 8260
Bromofluorobenzene		%	99	EPA 8260

# ADVANCED ENVIRONMENTAL CONCEPTS, INC.

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

## Certificate of Analysis

<b>Sample Identification:</b>	<b>MW-3</b>	<b>Project Identification:</b>	<b>GREEN VALLEY GARAGE</b>
<b>MATRIX:</b>	<b>water</b>	<b>Client Identification:</b>	<b>RON ANDERSON</b>
<b>Sample Date:</b>	<b>9/30/2015</b>	<b>Client Telephone:</b>	
<b>Date Received:</b>	<b>9/30/2015</b>	<b>Client Fax:</b>	
<b>Extraction Date:</b>	<b>10/6/2015</b>	<b>Analyst:</b>	<b>MM</b>
<b>Analysis Date:</b>	<b>10/12/2015</b>	<b>Lab File:</b>	<b>101215.D20</b>

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	5	ug/L	ND	EPA 8260
Chloromethane	5	ug/L	ND	EPA 8260
Vinyl Chloride	5	ug/L	ND	EPA 8260
Bromomethane	5	ug/L	ND	EPA 8260
Chloroethane	5	ug/L	ND	EPA 8260
Trichlorofluoromethane	5	ug/L	ND	EPA 8260
1,1-Dichloroethene	5	ug/L	ND	EPA 8260
tert-Butyl Alcohol (TBA)	50	ug/L	ND	EPA 8260
Methylene Chloride	5	ug/L	ND	EPA 8260
trans-1,2-Dichloroethene	5	ug/L	ND	EPA 8260
Methyl tert-Butyl Ether (MtBE)	5	ug/L	ND	EPA 8260
1,1-Dichloroethane	5	ug/L	ND	EPA 8260
Diisopropyl Ether (DIPE)	5	ug/L	ND	EPA 8260
cis-1,2-Dichloroethene	5	ug/L	ND	EPA 8260
Bromochloromethane	5	ug/L	ND	EPA 8260
Chloroform	5	ug/L	ND	EPA 8260
2,2-Dichloropropane	5	ug/L	ND	EPA 8260
Ethyl tert-Butyl Ether (EtBE)	5	ug/L	ND	EPA 8260
1,2-Dichloroethane	5	ug/L	ND	EPA 8260
tert-Amyl Alcohol (TAA)	50	ug/L	ND	EPA 8260
1,1,1-Trichloroethane	5	ug/L	ND	EPA 8260
1,1-Dichloropropene	5	ug/L	ND	EPA 8260
Carbon tetrachloride	5	ug/L	ND	EPA 8260
Benzene	5	ug/L	ND	EPA 8260
tert-Amyl Methyl Ether (TAME)	5	ug/L	ND	EPA 8260
Dibromomethane	5	ug/L	ND	EPA 8260
1,2-Dichloropropane	5	ug/L	ND	EPA 8260
Trichloroethene	5	ug/L	ND	EPA 8260
Bromodichloromethane	5	ug/L	ND	EPA 8260
tert-Amyl Ethyl Ether (TAEE)	5	ug/L	ND	EPA 8260
cis-1,3-Dichloropropene	5	ug/L	ND	EPA 8260
trans-1,3-Dichloropropene	5	ug/L	ND	EPA 8260
1,1,2-Trichloroethane	5	ug/L	ND	EPA 8260
Toluene	5	ug/L	ND	EPA 8260
1,3-Dichloropropane	5	ug/L	ND	EPA 8260
Dibromochloromethane	5	ug/L	ND	EPA 8260
1,2-Dibromoethane	5	ug/L	ND	EPA 8260
Tetrachloroethene	5	ug/L	ND	EPA 8260
1,1,1,2-Tetrachloroethene	5	ug/L	ND	EPA 8260
Chlorobenzene	5	ug/L	ND	EPA 8260
Ethylbenzene	5	ug/L	ND	EPA 8260



# ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 5292 Enterprise Street Suite C, Eldersburg, MD 21784 Phone 410-795-5955 Fax 410-795-9459

## Certificate of Analysis

Sample Identification:	MW-3	Project Identification:	GREEN VALLEY GARAGE
MATRIX:	water	Client Identification:	RON ANDERSON
Sample Date:	9/30/2015	Client Telephone:	
Date Received:	9/30/2015	Client Fax:	
Extraction Date:	10/6/2015	Analyst:	MM
Analysis Date:	10/12/2015	Lab File:	101215.D20

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

### SURROGATE SPIKE

1,2-Dichloroethane-d4	%		121	EPA 8260
Dibromofluoromethane	%		122	EPA 8260
TFT	%		98	EPA 8015B
Toluene-d8	%		91	EPA 8260
Bromofluorobenzene	%		97	EPA 8260

# ADVANCED ENVIRONMENTAL CONCEPTS, INC.

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

## Certificate of Analysis

<b>Sample Identification:</b>	<b>MW-4</b>	<b>Project Identification:</b>	<b>GREEN VALLEY GARAGE</b>
<b>MATRIX:</b>	<b>water</b>	<b>Client Identification:</b>	<b>RON ANDERSON</b>
<b>Sample Date:</b>	<b>9/30/2015</b>	<b>Client Telephone:</b>	
<b>Date Received:</b>	<b>9/30/2015</b>	<b>Client Fax:</b>	
<b>Extraction Date:</b>	<b>10/6/2015</b>	<b>Analyst:</b>	<b>MM</b>
<b>Analysis Date:</b>	<b>10/12/2015</b>	<b>Lab File:</b>	<b>101215.D21</b>

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	5	ug/L	ND	EPA 8260
Chloromethane	5	ug/L	ND	EPA 8260
Vinyl Chloride	5	ug/L	ND	EPA 8260
Bromomethane	5	ug/L	ND	EPA 8260
Chloroethane	5	ug/L	ND	EPA 8260
Trichlorofluoromethane	5	ug/L	ND	EPA 8260
1,1-Dichloroethene	5	ug/L	ND	EPA 8260
tert-Butyl Alcohol (TBA)	50	ug/L	5080	EPA 8260
Methylene Chloride	5	ug/L	ND	EPA 8260
trans-1,2-Dichloroethene	5	ug/L	ND	EPA 8260
Methyl tert-Butyl Ether (MtBE)	5	ug/L	2120	EPA 8260
1,1-Dichloroethane	5	ug/L	ND	EPA 8260
Diisopropyl Ether (DIPE)	5	ug/L	14.4	EPA 8260
cis-1,2-Dichloroethene	5	ug/L	ND	EPA 8260
Bromochloromethane	5	ug/L	ND	EPA 8260
Chloroform	5	ug/L	ND	EPA 8260
2,2-Dichloropropane	5	ug/L	ND	EPA 8260
Ethyl tert-Butyl Ether (EtBE)	5	ug/L	ND	EPA 8260
1,2-Dichloroethane	5	ug/L	ND	EPA 8260
tert-Amyl Alcohol (TAA)	50	ug/L	770	EPA 8260
1,1,1-Trichloroethane	5	ug/L	ND	EPA 8260
1,1-Dichloropropene	5	ug/L	ND	EPA 8260
Carbon tetrachloride	5	ug/L	ND	EPA 8260
Benzene	5	ug/L	ND	EPA 8260
tert-Amyl Methyl Ether (TAME)	5	ug/L	386	EPA 8260
Dibromomethane	5	ug/L	ND	EPA 8260
1,2-Dichloropropane	5	ug/L	ND	EPA 8260
Trichloroethene	5	ug/L	ND	EPA 8260
Bromodichloromethane	5	ug/L	ND	EPA 8260
tert-Amyl Ethyl Ether (TAEE)	5	ug/L	ND	EPA 8260
cis-1,3-Dichloropropene	5	ug/L	ND	EPA 8260
trans-1,3-Dichloropropene	5	ug/L	ND	EPA 8260
1,1,2-Trichloroethane	5	ug/L	ND	EPA 8260
Toluene	5	ug/L	ND	EPA 8260
1,3-Dichloropropane	5	ug/L	ND	EPA 8260
Dibromochloromethane	5	ug/L	ND	EPA 8260
1,2-Dibromoethane	5	ug/L	ND	EPA 8260
Tetrachloroethene	5	ug/L	ND	EPA 8260
1,1,1,2-Tetrachloroethene	5	ug/L	ND	EPA 8260
Chlorobenzene	5	ug/L	ND	EPA 8260
Ethylbenzene	5	ug/L	ND	EPA 8260

# ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 5292 Enterprise Street Suite C, Eldersburg, MD 21784 Phone 410-795-5955 Fax 410-795-9459

## Certificate of Analysis

<b>Sample Identification:</b>	<b>MW-4</b>	<b>Project Identification:</b>	<b>GREEN VALLEY GARAGE</b>
<b>MATRIX:</b>	<b>water</b>	<b>Client Identification:</b>	<b>RON ANDERSON</b>
<b>Sample Date:</b>	<b>9/30/2015</b>	<b>Client Telephone:</b>	
<b>Date Received:</b>	<b>9/30/2015</b>	<b>Client Fax:</b>	
<b>Extraction Date:</b>	<b>10/6/2015</b>	<b>Analyst:</b>	<b>MM</b>
<b>Analysis Date:</b>	<b>10/12/2015</b>	<b>Lab File:</b>	<b>101215.D21</b>

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	5	ug/L	ND	EPA 8260
Bromoform	5	ug/L	ND	EPA 8260
Styrene	5	ug/L	ND	EPA 8260
o-Xylene	5	ug/L	ND	EPA 8260
1,1,2,2-Tetrachloroethane	5	ug/L	ND	EPA 8260
1,2,3-Trichloropropane	5	ug/L	ND	EPA 8260
Isopropylbenzene	5	ug/L	ND	EPA 8260
Bromobenzene	5	ug/L	ND	EPA 8260
n-Propylbenzene	5	ug/L	ND	EPA 8260
2-Chlorotoluene	5	ug/L	ND	EPA 8260
4-Chlorotoluene	5	ug/L	ND	EPA 8260
1,3,5-Trimethylbenzene	5	ug/L	ND	EPA 8260
tert-Butylbenzene	5	ug/L	ND	EPA 8260
1,2,4-Trimethylbenzene	5	ug/L	ND	EPA 8260
sec-Butylbenzene	5	ug/L	ND	EPA 8260
1,3-Dichlorobenzene	5	ug/L	ND	EPA 8260
1,4-Dichlorobenzene	5	ug/L	ND	EPA 8260
1,2-Dichlorobenzene	5	ug/L	ND	EPA 8260
p-iso-Propyltoluene	5	ug/L	ND	EPA 8260
n-Butylbenzene	5	ug/L	ND	EPA 8260
1,2-Dibromo-3-chloropropane	5	ug/L	ND	EPA 8260
1,2,4-Trichlorobenzene	5	ug/L	ND	EPA 8260
Naphthalene	5	ug/L	ND	EPA 8260
Hexachlorobutadiene	5	ug/L	ND	EPA 8260
1,2,3-Trichlorobenzene	5	ug/L	ND	EPA 8260
TPH GRO	100	ug/L	8800	EPA 8015B
TPH DRO	500	ug/L	ND	EPA 8015B

### SURROGATE SPIKE

1,2-Dichloroethane-d4		%	121	EPA 8260
Dibromofluoromethane		%	122	EPA 8260
TFT		%	98	EPA 8015B
Toluene-d8		%	91	EPA 8260
Bromofluorobenzene		%	97	EPA 8260

# ADVANCED ENVIRONMENTAL CONCEPTS, INC.

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

## Certificate of Analysis

<b>Sample Identification:</b>	<b>MW-5</b>	<b>Project Identification:</b>	<b>GREEN VALLEY GARAGE</b>
<b>MATRIX:</b>	<b>water</b>	<b>Client Identification:</b>	<b>RON ANDERSON</b>
<b>Sample Date:</b>	<b>9/30/2015</b>	<b>Client Telephone:</b>	
<b>Date Received:</b>	<b>9/30/2015</b>	<b>Client Fax:</b>	
<b>Extraction Date:</b>	<b>10/6/2015</b>	<b>Analyst:</b>	<b>MM</b>
<b>Analysis Date:</b>	<b>10/12/2015</b>	<b>Lab File:</b>	<b>101215.D22</b>

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	5	ug/L	ND	EPA 8260
Chloromethane	5	ug/L	ND	EPA 8260
Vinyl Chloride	5	ug/L	ND	EPA 8260
Bromomethane	5	ug/L	ND	EPA 8260
Chloroethane	5	ug/L	ND	EPA 8260
Trichlorofluoromethane	5	ug/L	ND	EPA 8260
1,1-Dichloroethene	5	ug/L	ND	EPA 8260
tert-Butyl Alcohol (TBA)	50	ug/L	2400	EPA 8260
Methylene Chloride	5	ug/L	ND	EPA 8260
trans-1,2-Dichloroethene	5	ug/L	ND	EPA 8260
Methyl tert-Butyl Ether (MtBE)	5	ug/L	5640	EPA 8260
1,1-Dichloroethane	5	ug/L	ND	EPA 8260
Diisopropyl Ether (DIPE)	5	ug/L	13.9	EPA 8260
cis-1,2-Dichloroethene	5	ug/L	ND	EPA 8260
Bromochloromethane	5	ug/L	ND	EPA 8260
Chloroform	5	ug/L	ND	EPA 8260
2,2-Dichloropropane	5	ug/L	ND	EPA 8260
Ethyl tert-Butyl Ether (EtBE)	5	ug/L	ND	EPA 8260
1,2-Dichloroethane	5	ug/L	ND	EPA 8260
tert-Amyl Alcohol (TAA)	50	ug/L	330	EPA 8260
1,1,1-Trichloroethane	5	ug/L	ND	EPA 8260
1,1-Dichloropropene	5	ug/L	ND	EPA 8260
Carbon tetrachloride	5	ug/L	ND	EPA 8260
Benzene	5	ug/L	ND	EPA 8260
tert-Amyl Methyl Ether (TAME)	5	ug/L	794	EPA 8260
Dibromomethane	5	ug/L	ND	EPA 8260
1,2-Dichloropropane	5	ug/L	ND	EPA 8260
Trichloroethene	5	ug/L	ND	EPA 8260
Bromodichloromethane	5	ug/L	ND	EPA 8260
tert-Amyl Ethyl Ether (TAEE)	5	ug/L	ND	EPA 8260
cis-1,3-Dichloropropene	5	ug/L	ND	EPA 8260
trans-1,3-Dichloropropene	5	ug/L	ND	EPA 8260
1,1,2-Trichloroethane	5	ug/L	ND	EPA 8260
Toluene	5	ug/L	ND	EPA 8260
1,3-Dichloropropane	5	ug/L	ND	EPA 8260
Dibromochloromethane	5	ug/L	ND	EPA 8260
1,2-Dibromoethane	5	ug/L	ND	EPA 8260
Tetrachloroethene	5	ug/L	ND	EPA 8260
1,1,1,2-Tetrachloroethene	5	ug/L	ND	EPA 8260
Chlorobenzene	5	ug/L	ND	EPA 8260
Ethylbenzene	5	ug/L	ND	EPA 8260

# ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 5292 Enterprise Street Suite C, Eldersburg, MD 21784 Phone 410-795-5955 Fax 410-795-9459

## Certificate of Analysis

Sample Identification:	MW-5	Project Identification:	GREEN VALLEY GARAGE
MATRIX:	water	Client Identification:	RON ANDERSON
Sample Date:	9/30/2015	Client Telephone:	
Date Received:	9/30/2015	Client Fax:	
Extraction Date:	10/6/2015	Analyst:	MM
Analysis Date:	10/12/2015	Lab File:	101215.D22

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	5	ug/L	ND	EPA 8260
Bromoform	5	ug/L	ND	EPA 8260
Styrene	5	ug/L	ND	EPA 8260
o-Xylene	5	ug/L	ND	EPA 8260
1,1,2,2-Tetrachloroethane	5	ug/L	ND	EPA 8260
1,2,3-Trichloropropane	5	ug/L	ND	EPA 8260
Isopropylbenzene	5	ug/L	ND	EPA 8260
Bromobenzene	5	ug/L	ND	EPA 8260
n-Propylbenzene	5	ug/L	ND	EPA 8260
2-Chlorotoluene	5	ug/L	ND	EPA 8260
4-Chlorotoluene	5	ug/L	ND	EPA 8260
1,3,5-Trimethylbenzene	5	ug/L	ND	EPA 8260
tert-Butylbenzene	5	ug/L	ND	EPA 8260
1,2,4-Trimethylbenzene	5	ug/L	ND	EPA 8260
sec-Butylbenzene	5	ug/L	ND	EPA 8260
1,3-Dichlorobenzene	5	ug/L	ND	EPA 8260
1,4-Dichlorobenzene	5	ug/L	ND	EPA 8260
1,2-Dichlorobenzene	5	ug/L	ND	EPA 8260
p-iso-Propyltoluene	5	ug/L	ND	EPA 8260
n-Butylbenzene	5	ug/L	ND	EPA 8260
1,2-Dibromo-3-chloropropane	5	ug/L	ND	EPA 8260
1,2,4-Trichlorobenzene	5	ug/L	ND	EPA 8260
Naphthalene	5	ug/L	ND	EPA 8260
Hexachlorobutadiene	5	ug/L	ND	EPA 8260
1,2,3-Trichlorobenzene	5	ug/L	ND	EPA 8260
TPH GRO	100	ug/L	9100	EPA 8015B
TPH DRO	500	ug/L	ND	EPA 8015B

### SURROGATE SPIKE

1,2-Dichloroethane-d4		%	100	EPA 8260
Dibromofluoromethane		%	104	EPA 8260
TFT		%	99	EPA 8015B
Toluene-d8		%	91	EPA 8260
Bromofluorobenzene		%	100	EPA 8260

# ADVANCED ENVIRONMENTAL CONCEPTS, INC.

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

## Certificate of Analysis

<b>Sample Identification:</b>	<b>MW-6</b>	<b>Project Identification:</b>	<b>GREEN VALLEY GARAGE</b>
<b>MATRIX:</b>	<b>water</b>	<b>Client Identification:</b>	<b>RON ANDERSON</b>
<b>Sample Date:</b>	<b>9/30/2015</b>	<b>Client Telephone:</b>	
<b>Date Received:</b>	<b>9/30/2015</b>	<b>Client Fax:</b>	
<b>Extraction Date:</b>	<b>10/6/2015</b>	<b>Analyst:</b>	<b>MM</b>
<b>Analysis Date:</b>	<b>10/12/2015</b>	<b>Lab File:</b>	<b>101215.D23</b>

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	5	ug/L	ND	EPA 8260
Chloromethane	5	ug/L	ND	EPA 8260
Vinyl Chloride	5	ug/L	ND	EPA 8260
Bromomethane	5	ug/L	ND	EPA 8260
Chloroethane	5	ug/L	ND	EPA 8260
Trichlorofluoromethane	5	ug/L	ND	EPA 8260
1,1-Dichloroethene	5	ug/L	ND	EPA 8260
tert-Butyl Alcohol (TBA)	50	ug/L	1170	EPA 8260
Methylene Chloride	5	ug/L	ND	EPA 8260
trans-1,2-Dichloroethene	5	ug/L	ND	EPA 8260
Methyl tert-Butyl Ether (MtBE)	5	ug/L	1920	EPA 8260
1,1-Dichloroethane	5	ug/L	ND	EPA 8260
Diisopropyl Ether (DIPE)	5	ug/L	9.28	EPA 8260
cis-1,2-Dichloroethene	5	ug/L	ND	EPA 8260
Bromochloromethane	5	ug/L	ND	EPA 8260
Chloroform	5	ug/L	ND	EPA 8260
2,2-Dichloropropane	5	ug/L	ND	EPA 8260
Ethyl tert-Butyl Ether (EtBE)	5	ug/L	ND	EPA 8260
1,2-Dichloroethane	5	ug/L	ND	EPA 8260
tert-Amyl Alcohol (TAA)	50	ug/L	ND	EPA 8260
1,1,1-Trichloroethane	5	ug/L	ND	EPA 8260
1,1-Dichloropropene	5	ug/L	ND	EPA 8260
Carbon tetrachloride	5	ug/L	ND	EPA 8260
Benzene	5	ug/L	ND	EPA 8260
tert-Amyl Methyl Ether (TAME)	5	ug/L	385	EPA 8260
Dibromomethane	5	ug/L	ND	EPA 8260
1,2-Dichloropropane	5	ug/L	ND	EPA 8260
Trichloroethene	5	ug/L	ND	EPA 8260
Bromodichloromethane	5	ug/L	ND	EPA 8260
tert-Amyl Ethyl Ether (TAEE)	5	ug/L	ND	EPA 8260
cis-1,3-Dichloropropene	5	ug/L	ND	EPA 8260
trans-1,3-Dichloropropene	5	ug/L	ND	EPA 8260
1,1,2-Trichloroethane	5	ug/L	ND	EPA 8260
Toluene	5	ug/L	ND	EPA 8260
1,3-Dichloropropane	5	ug/L	ND	EPA 8260
Dibromochloromethane	5	ug/L	ND	EPA 8260
1,2-Dibromoethane	5	ug/L	ND	EPA 8260
Tetrachloroethene	5	ug/L	ND	EPA 8260
1,1,1,2-Tetrachloroethene	5	ug/L	ND	EPA 8260
Chlorobenzene	5	ug/L	ND	EPA 8260
Ethylbenzene	5	ug/L	ND	EPA 8260

# ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 5292 Enterprise Street Suite C, Eldersburg, MD 21784 Phone 410-795-5955 Fax 410-795-9459

## Certificate of Analysis

Sample Identification:	MW-6	Project Identification:	GREEN VALLEY GARAGE
MATRIX:	water	Client Identification:	RON ANDERSON
Sample Date:	9/30/2015	Client Telephone:	
Date Received:	9/30/2015	Client Fax:	
Extraction Date:	10/6/2015	Analyst:	MM
Analysis Date:	10/12/2015	Lab File:	101215.D23

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	5	ug/L	ND	EPA 8260
Bromoform	5	ug/L	ND	EPA 8260
Styrene	5	ug/L	ND	EPA 8260
o-Xylene	5	ug/L	ND	EPA 8260
1,1,2,2-Tetrachloroethane	5	ug/L	ND	EPA 8260
1,2,3-Trichloropropane	5	ug/L	ND	EPA 8260
Isopropylbenzene	5	ug/L	ND	EPA 8260
Bromobenzene	5	ug/L	ND	EPA 8260
n-Propylbenzene	5	ug/L	ND	EPA 8260
2-Chlorotoluene	5	ug/L	ND	EPA 8260
4-Chlorotoluene	5	ug/L	ND	EPA 8260
1,3,5-Trimethylbenzene	5	ug/L	ND	EPA 8260
tert-Butylbenzene	5	ug/L	ND	EPA 8260
1,2,4-Trimethylbenzene	5	ug/L	ND	EPA 8260
sec-Butylbenzene	5	ug/L	ND	EPA 8260
1,3-Dichlorobenzene	5	ug/L	ND	EPA 8260
1,4-Dichlorobenzene	5	ug/L	ND	EPA 8260
1,2-Dichlorobenzene	5	ug/L	ND	EPA 8260
p-iso-Propyltoluene	5	ug/L	ND	EPA 8260
n-Butylbenzene	5	ug/L	ND	EPA 8260
1,2-Dibromo-3-chloropropane	5	ug/L	ND	EPA 8260
1,2,4-Trichlorobenzene	5	ug/L	ND	EPA 8260
Naphthalene	5	ug/L	ND	EPA 8260
Hexachlorobutadiene	5	ug/L	ND	EPA 8260
1,2,3-Trichlorobenzene	5	ug/L	ND	EPA 8260
TPH GRO	100	ug/L	3580	EPA 8015B
TPH DRO	500	ug/L	ND	EPA 8015B

### SURROGATE SPIKE

1,2-Dichloroethane-d4		%	100	EPA 8260
Dibromofluoromethane		%	104	EPA 8260
TFT		%	98	EPA 8015B
Toluene-d8		%	91	EPA 8260
Bromofluorobenzene		%	101	EPA 8260

# ADVANCED ENVIRONMENTAL CONCEPTS, INC.

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

## Certificate of Analysis

<b>Sample Identification:</b>	<b>MW-7</b>	<b>Project Identification:</b>	<b>GREEN VALLEY GARAGE</b>
<b>MATRIX:</b>	<b>water</b>	<b>Client Identification:</b>	<b>RON ANDERSON</b>
<b>Sample Date:</b>	<b>9/30/2015</b>	<b>Client Telephone:</b>	
<b>Date Received:</b>	<b>9/30/2015</b>	<b>Client Fax:</b>	
<b>Extraction Date:</b>	<b>10/6/2015</b>	<b>Analyst:</b>	<b>MM</b>
<b>Analysis Date:</b>	<b>10/12/2015</b>	<b>Lab File:</b>	<b>101215.D24</b>

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	5	ug/L	ND	EPA 8260
Chloromethane	5	ug/L	ND	EPA 8260
Vinyl Chloride	5	ug/L	ND	EPA 8260
Bromomethane	5	ug/L	ND	EPA 8260
Chloroethane	5	ug/L	ND	EPA 8260
Trichlorofluoromethane	5	ug/L	ND	EPA 8260
1,1-Dichloroethene	5	ug/L	ND	EPA 8260
tert-Butyl Alcohol (TBA)	50	ug/L	ND	EPA 8260
Methylene Chloride	5	ug/L	ND	EPA 8260
trans-1,2-Dichloroethene	5	ug/L	ND	EPA 8260
Methyl tert-Butyl Ether (MtBE)	5	ug/L	ND	EPA 8260
1,1-Dichloroethane	5	ug/L	ND	EPA 8260
Diisopropyl Ether (DIPE)	5	ug/L	ND	EPA 8260
cis-1,2-Dichloroethene	5	ug/L	ND	EPA 8260
Bromochloromethane	5	ug/L	ND	EPA 8260
Chloroform	5	ug/L	ND	EPA 8260
2,2-Dichloropropane	5	ug/L	ND	EPA 8260
Ethyl tert-Butyl Ether (EtBE)	5	ug/L	ND	EPA 8260
1,2-Dichloroethane	5	ug/L	ND	EPA 8260
tert-Amyl Alcohol (TAA)	50	ug/L	ND	EPA 8260
1,1,1-Trichloroethane	5	ug/L	ND	EPA 8260
1,1-Dichloropropene	5	ug/L	ND	EPA 8260
Carbon tetrachloride	5	ug/L	ND	EPA 8260
Benzene	5	ug/L	ND	EPA 8260
tert-Amyl Methyl Ether (TAME)	5	ug/L	ND	EPA 8260
Dibromomethane	5	ug/L	ND	EPA 8260
1,2-Dichloropropane	5	ug/L	ND	EPA 8260
Trichloroethene	5	ug/L	ND	EPA 8260
Bromodichloromethane	5	ug/L	ND	EPA 8260
tert-Amyl Ethyl Ether (TAEE)	5	ug/L	ND	EPA 8260
cis-1,3-Dichloropropene	5	ug/L	ND	EPA 8260
trans-1,3-Dichloropropene	5	ug/L	ND	EPA 8260
1,1,2-Trichloroethane	5	ug/L	ND	EPA 8260
Toluene	5	ug/L	ND	EPA 8260
1,3-Dichloropropane	5	ug/L	ND	EPA 8260
Dibromochloromethane	5	ug/L	ND	EPA 8260
1,2-Dibromoethane	5	ug/L	ND	EPA 8260
Tetrachloroethene	5	ug/L	ND	EPA 8260
1,1,1,2-Tetrachloroethene	5	ug/L	ND	EPA 8260
Chlorobenzene	5	ug/L	ND	EPA 8260
Ethylbenzene	5	ug/L	ND	EPA 8260



# ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 5292 Enterprise Street Suite C, Eldersburg, MD 21784 Phone 410-795-5955 Fax 410-795-9459

## Certificate of Analysis

Sample Identification:	MW-7	Project Identification:	GREEN VALLEY GARAGE
MATRIX:	water	Client Identification:	RON ANDERSON
Sample Date:	9/30/2015	Client Telephone:	
Date Received:	9/30/2015	Client Fax:	
Extraction Date:	10/6/2015	Analyst:	MM
Analysis Date:	10/12/2015	Lab File:	101215.D24

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

### SURROGATE SPIKE

1,2-Dichloroethane-d4	%	117	EPA 8260
Dibromofluoromethane	%	121	EPA 8260
TFT	%	99	EPA 8015B
Toluene-d8	%	90	EPA 8260
Bromofluorobenzene	%	99	EPA 8260

# ADVANCED ENVIRONMENTAL CONCEPTS, INC.

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

## Certificate of Analysis

<b>Sample Identification:</b>	<b>FORMER DSW</b>	<b>Project Identification:</b>	<b>GREEN VALLEY GARAGE</b>
<b>MATRIX:</b>	<b>water</b>	<b>Client Identification:</b>	<b>RON ANDERSON</b>
<b>Sample Date:</b>	<b>9/30/2015</b>	<b>Client Telephone:</b>	
<b>Date Received:</b>	<b>9/30/2015</b>	<b>Client Fax:</b>	
<b>Extraction Date:</b>	<b>10/6/2015</b>	<b>Analyst:</b>	<b>MM</b>
<b>Analysis Date:</b>	<b>10/12/2015</b>	<b>Lab File:</b>	<b>101215.D25</b>

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	5	ug/L	ND	EPA 8260
Chloromethane	5	ug/L	ND	EPA 8260
Vinyl Chloride	5	ug/L	ND	EPA 8260
Bromomethane	5	ug/L	ND	EPA 8260
Chloroethane	5	ug/L	ND	EPA 8260
Trichlorofluoromethane	5	ug/L	ND	EPA 8260
1,1-Dichloroethene	5	ug/L	ND	EPA 8260
tert-Butyl Alcohol (TBA)	50	ug/L	ND	EPA 8260
Methylene Chloride	5	ug/L	ND	EPA 8260
trans-1,2-Dichloroethene	5	ug/L	ND	EPA 8260
Methyl tert-Butyl Ether (MtBE)	5	ug/L	3960	EPA 8260
1,1-Dichloroethane	5	ug/L	ND	EPA 8260
Diisopropyl Ether (DIPE)	5	ug/L	ND	EPA 8260
cis-1,2-Dichloroethene	5	ug/L	ND	EPA 8260
Bromochloromethane	5	ug/L	ND	EPA 8260
Chloroform	5	ug/L	ND	EPA 8260
2,2-Dichloropropane	5	ug/L	ND	EPA 8260
Ethyl tert-Butyl Ether (EtBE)	5	ug/L	ND	EPA 8260
1,2-Dichloroethane	5	ug/L	ND	EPA 8260
tert-Amyl Alcohol (TAA)	50	ug/L	ND	EPA 8260
1,1,1-Trichloroethane	5	ug/L	ND	EPA 8260
1,1-Dichloropropene	5	ug/L	ND	EPA 8260
Carbon tetrachloride	5	ug/L	ND	EPA 8260
Benzene	5	ug/L	ND	EPA 8260
tert-Amyl Methyl Ether (TAME)	5	ug/L	680	EPA 8260
Dibromomethane	5	ug/L	ND	EPA 8260
1,2-Dichloropropane	5	ug/L	ND	EPA 8260
Trichloroethene	5	ug/L	ND	EPA 8260
Bromodichloromethane	5	ug/L	ND	EPA 8260
tert-Amyl Ethyl Ether (TAEE)	5	ug/L	ND	EPA 8260
cis-1,3-Dichloropropene	5	ug/L	ND	EPA 8260
trans-1,3-Dichloropropene	5	ug/L	ND	EPA 8260
1,1,2-Trichloroethane	5	ug/L	ND	EPA 8260
Toluene	5	ug/L	ND	EPA 8260
1,3-Dichloropropane	5	ug/L	ND	EPA 8260
Dibromochloromethane	5	ug/L	ND	EPA 8260
1,2-Dibromoethane	5	ug/L	ND	EPA 8260
Tetrachloroethene	5	ug/L	ND	EPA 8260
1,1,1,2-Tetrachloroethene	5	ug/L	ND	EPA 8260
Chlorobenzene	5	ug/L	ND	EPA 8260
Ethylbenzene	5	ug/L	ND	EPA 8260

# ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 5292 Enterprise Street Suite C, Eldersburg, MD 21784 Phone 410-795-5955 Fax 410-795-9459

## Certificate of Analysis

<b>Sample Identification:</b>	<b>FORMER DSW</b>	<b>Project Identification:</b>	<b>GREEN VALLEY GARAGE</b>
<b>MATRIX:</b>	<b>water</b>	<b>Client Identification:</b>	<b>RON ANDERSON</b>
<b>Sample Date:</b>	<b>9/30/2015</b>	<b>Client Telephone:</b>	
<b>Date Received:</b>	<b>9/30/2015</b>	<b>Client Fax:</b>	
<b>Extraction Date:</b>	<b>10/6/2015</b>	<b>Analyst:</b>	<b>MM</b>
<b>Analysis Date:</b>	<b>10/12/2015</b>	<b>Lab File:</b>	<b>101215.D25</b>

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	5	ug/L	ND	EPA 8260
Bromoform	5	ug/L	ND	EPA 8260
Styrene	5	ug/L	ND	EPA 8260
o-Xylene	5	ug/L	ND	EPA 8260
1,1,2,2-Tetrachloroethane	5	ug/L	ND	EPA 8260
1,2,3-Trichloropropane	5	ug/L	ND	EPA 8260
Isopropylbenzene	5	ug/L	ND	EPA 8260
Bromobenzene	5	ug/L	ND	EPA 8260
n-Propylbenzene	5	ug/L	ND	EPA 8260
2-Chlorotoluene	5	ug/L	ND	EPA 8260
4-Chlorotoluene	5	ug/L	ND	EPA 8260
1,3,5-Trimethylbenzene	5	ug/L	ND	EPA 8260
tert-Butylbenzene	5	ug/L	ND	EPA 8260
1,2,4-Trimethylbenzene	5	ug/L	ND	EPA 8260
sec-Butylbenzene	5	ug/L	ND	EPA 8260
1,3-Dichlorobenzene	5	ug/L	ND	EPA 8260
1,4-Dichlorobenzene	5	ug/L	ND	EPA 8260
1,2-Dichlorobenzene	5	ug/L	ND	EPA 8260
p-iso-Propyltoluene	5	ug/L	ND	EPA 8260
n-Butylbenzene	5	ug/L	ND	EPA 8260
1,2-Dibromo-3-chloropropane	5	ug/L	ND	EPA 8260
1,2,4-Trichlorobenzene	5	ug/L	ND	EPA 8260
Naphthalene	5	ug/L	ND	EPA 8260
Hexachlorobutadiene	5	ug/L	ND	EPA 8260
1,2,3-Trichlorobenzene	5	ug/L	ND	EPA 8260
TPH GRO	100	ug/L	4800	EPA 8015B
TPH DRO	500	ug/L	ND	EPA 8015B

### SURROGATE SPIKE

1,2-Dichloroethane-d4	%		106	EPA 8260
Dibromofluoromethane	%		111	EPA 8260
TFT	%		98	EPA 8015B
Toluene-d8	%		90	EPA 8260
Bromofluorobenzene	%		98	EPA 8260

Client: <b>Ron Anderson</b>		Project Name: <b>Green Valley Garage</b>		SDG#: _____	
Address: <b>11602 Fingerboard Rd</b>		Project Location: <b>Monrovia, MD</b>		Preservatives	
Phone: _____		Fax: _____		Requested Analysis	
Email: _____		Receive Completed Report Via (Circle One) U.S. Mail    Email    Fax		Observation	
Sample By: <b>BW0877</b>		Date		8260	
Sample #	Sample ID	Date	Time	Matrix	pH
1	Trip Blank	9/30/15		0	
2	Effluent			DW	
3	Influent			DW	
4	MW-1			GW	
5	MW-3				
6	MW-4				
7	MW-5				
8	MW-6				
9	MW-7				
10	Former DSW				
Relinquished/Received By Signature		Date	Time	Delivery Method	
Relinquished By: <i>[Signature]</i>		9/30/15	14:00	Hand	
Received By: <i>[Signature]</i>		9/30/15			
Relinquished By:					
Received By:					
Relinquished By:					
Received By:					
Temp of Cooler		240c			
Ice Present (Y/N)		Y			
Custody Seal (Y/N)		Y			
Date of Extraction					
Matrix Codes: SO = Soil, GW = Ground Water, WW = Waste Water, VP = Vapor, SL = Sludge, DW = Drinking Water, O = Other					
Special Instructions / Comments / QC Requirements:		Not enough water in MW-2. Unable to collect sample.			
Turn Around Time: <b>STD</b>		1 Day	2 Day	3 Day	Other