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Q2 2015 Groundwater Sampling Report

Fork BP
12601 Harford Rd
Kingsville, MD 21087

MDE Case # 2006-0825-BA

Prepared For:

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July 13, 2015

SIGNATURE SHEET

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1.0 Introduction

AEC, Inc. has prepared the following Report of Monitoring Well Sampling to satisfy the requirements set forth by the Maryland Department of the Environment (MDE) for the Fork BP Project located at 12601 Harford Rd. Kingsville, MD 21087; referred to herein as the “site”.

1.1 History

MDE OCP Case # 2006-0865-BA was opened in 2005 after the installation and sampling of three (3) groundwater monitoring wells in accordance with the high risk groundwater use area (HRGUA) regulations. Groundwater samples collected from the monitoring well network as well as the on-site drinking water well were found to contain elevated concentrations of MTBE. Subsequent sampling of ten (10) off-site drinking water wells has lead to the installation and maintenance of granular activated carbon (GAC) filtration units at three (3) off site locations. These GACs have been sampled and maintained on a regular basis since April of 2006.

AEC has taken over project oversight as of 09/01/2010. The monitoring well network is currently required by MDE to be sampled and analyzed for the presence of volatile organic compounds (VOCs) by EPA Method 8260 on a semi-annual basis.

The domestic supply well (DSW) and associated granular activated carbon (GAC) treatment system for 12609 Harford Rd is required to be sampled on a quarterly basis and the site’s potable well is required to be sampled on an annual basis for the presence of VOCs by EPA method 524.2.

In February of 2013 AEC requested that the site's GAC unit be removed as well as the GAC units located at 12613 and 12617 Harford Rd be removed based on consistent influent concentrations of MTBE below the regulatory standard of 20 ug/L. Removal of the GAC units was approved by MDE in a letter dated June 10, 2013; the GAC units were removed on July 3, 2013 from 12601, 12613, and 12617 Harford Rd.

2.0 Groundwater Monitoring

2.1 Domestic Supply Well Sampling

On 06/22/2015 AEC sampled the point of entry treatment (POET) system of the adjoining property located at 12609 Harford Rd., and the DSW from 12613 Harford Rd. The samples were collected by an MDE certified Drinking Water sampler. These samples were analyzed for the presence of VOCs by EPA Method 524.2.

Sampling frequency for DSWs and POET systems associated to the site can be found in the table below:

Address	Type	Frequency	Date Last Sampled	Date of Next Sampling Event
12601 Harford Rd	DSW	Annual	March, 2015	March, 2016
12609 Harford Rd	POET	Quarterly	June, 2015	September, 2015
12613 Harford Rd	DSW	Annual*	June, 2015	June, 2016
12617 Harford Rd	DSW	Annual*	March, 2015	March, 2016

* Per MDE's June 10, 2013 SAMPLING REDUCTION APPROVAL, these sites must be sampled for at least one year to verify the absence of petroleum impact

2.2 Monitoring Well Gauging & Sampling

On 06/22/2015 AEC personnel arrived onsite and gauged all wells for the presence of liquid phase hydrocarbons (LPH) and depth to groundwater. LPH was not detected in any of the wells. Measurements were made using an oil/water interface meter.

After gauging, each well was purged a total of three well volumes of water. Purged groundwater was treated with activated carbon prior to being discharged to the ground. After purging, groundwater was allowed to recover to a minimum of 90% pre purge levels prior to sample collection. Groundwater samples were collected using pre-packaged, single use, disposable bailers and placed in laboratory supplied VOAs. After collection samples were placed in a cooler with ice and chain of custody record for delivery to the laboratory to be analyzed by EPA Method 8260 for volatile organic compounds (VOCs).

3.0 Results

3.1 Domestic Supply Well Sampling Results

The 06/22/2015 samples collected at 12609 Harford Rd indicated levels of dissolved phase hydrocarbons in the influent (pre-treatment), intermediate, and effluent. Influent (pre-treatment), intermediate, and effluent concentrations of VOCs detected in the sample collected from the DSW POET located at 12609 Harford Rd are summarized below:

Influent- Toluene – 1.88 ug/L
Intermediate- Toluene – 1.86 ug/L
Effluent- Toluene – 1.78 ug/L

*Due to the concentrations of Toluene in the effluent samples AEC will replace the POET system carbon to ensure proper treatment of groundwater as soon as possible.

An *Analytical Summary Table* summarizing all DSW sampling conducted for the site to this date can be found in Appendix B. A full Report of Analysis and Chain of Custody Record can be found in Appendix C.

3.2 Monitoring Well Sampling Results

Method detectable concentrations were not observed in any of the MWs sampled on 06/22/2015. A full Report of Analysis and Chain of Custody Record can be found in Appendix C.

3.3 Groundwater Elevation

Groundwater elevations ranged from 73.87 feet (highest) in MW-1 to 68.80 (lowest) in MW-2; these two MWs are approximately one-hundred (100) feet apart resulting in a hydraulic gradient of 0.1007 feet/foot. Groundwater elevation contours, created using the depth to groundwater measurements collected on 06/22/2015, show groundwater flow on-site to the northwest in the direction of MW-2. The groundwater elevation contour map can be found in Appendix A. The gauging and elevation data can be found in a table in Appendix B.

4.0 Future Activities

AEC on behalf of Carroll Independent Fuel Company plans to continue the required quarterly sampling of the POET located at 12609 Harford Rd, the annual sampling of the DSWs located at 12601, 12613, and 12617 Harford Rd, and the biannual sampling of the site monitoring wells.

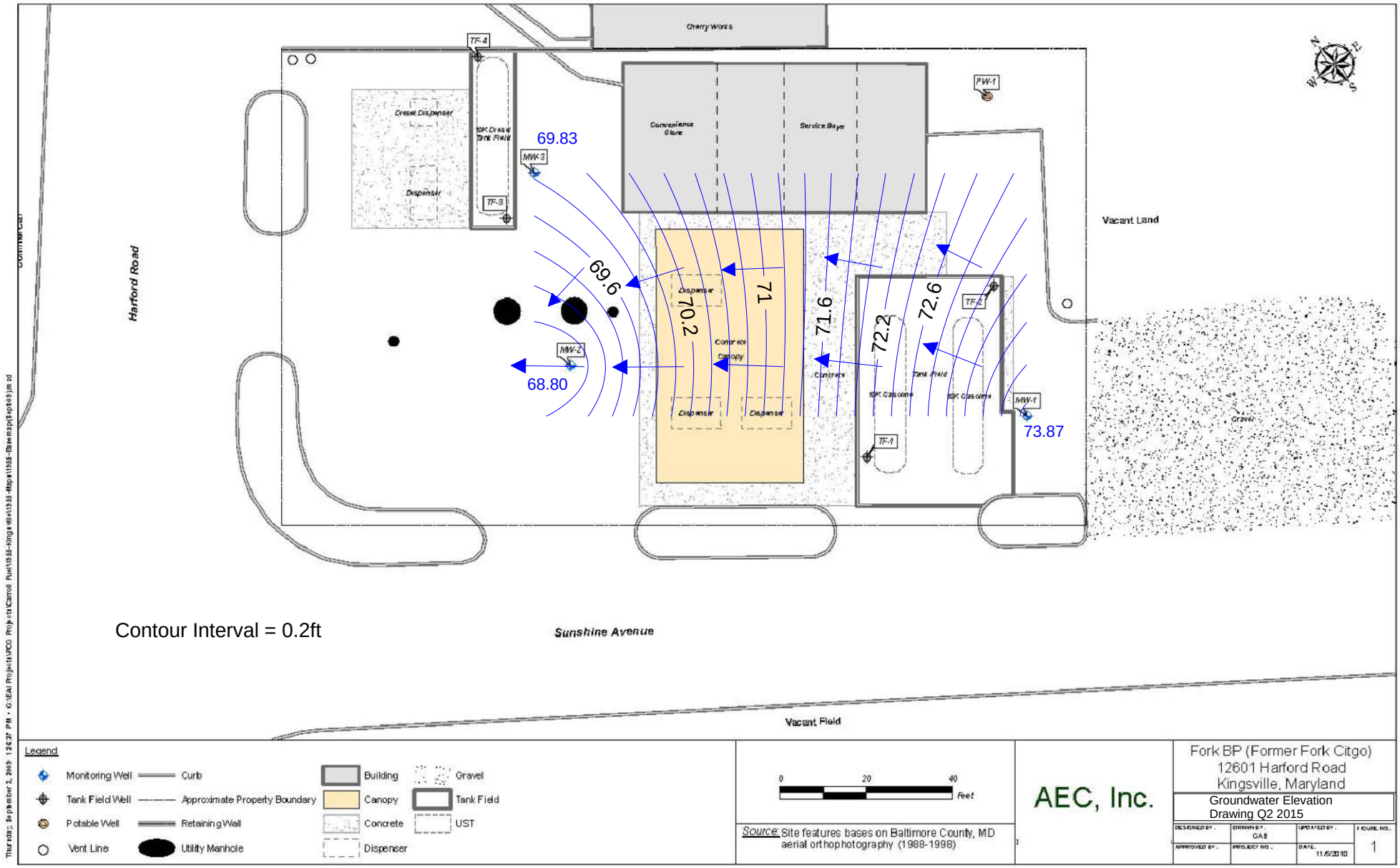
5.0 Limitations

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

6.0 Appendices

Appendix A
Site Maps

Carroll Fuel Fork BP Groundwater Elevation Contour Map Q2 2015



Appendix B
Historical Groundwater Monitoring & Analytical Tables

Fork BP
12601 Harford Rd, Kingsville, MD 21087
Monitoring Well Gauging Summary Table

Well ID	Date of Sample	Depth to Groundwater	Depth to Product	LPH Thickness	GW Elevation
MW-1	08/05/05	27.28	ND	ND	70.42
TOC Elevation =	02/16/06	24.60	ND	ND	73.10
97.70	03/14/06	25.10	ND	ND	72.60
	08/15/06	24.65	ND	ND	73.05
	02/27/07	26.50	ND	ND	71.20
	08/13/07	Dry	ND	ND	NA
	02/06/08	Dry	ND	ND	NA
	5/8/2008	27.82	ND	ND	69.88
	8/6/2008	28.92	ND	ND	68.78
	12/11/08	Dry	ND	ND	NA
	02/10/09	Dry	ND	ND	NA
	05/01/09	28.00	ND	ND	69.70
	11/12/09	25.48	ND	ND	72.22
	5/10/2010	23.92	ND	ND	73.78
	10/16/2010	28.09	ND	ND	69.61
	5/27/2011	24.69	ND	ND	73.01
	12/22/2011	26.17	ND	ND	71.53
	6/13/2012	28.93	ND	ND	68.77
	12/6/2012	Dry	ND	ND	NA
	7/3/2013	28.23	ND	ND	69.47
	12/5/2013	Dry	ND	ND	NA
	6/19/2014	23.70	ND	ND	74.00
	12/11/2014	27.34	ND	ND	70.36
	6/22/2015	23.83	ND	ND	73.87
MW-2	08/05/05	30.49	ND	ND	68.23
TOC Elevation =	02/16/06	30.59	ND	ND	68.13
98.72	03/14/06	30.03	ND	ND	68.69
	08/15/06	27.74	ND	ND	70.98
	02/27/07	30.11	ND	ND	68.61
	08/13/07	31.56	ND	ND	67.16
	2/6/2008	34.10	ND	ND	64.62
	5/8/2008	32.73	ND	ND	65.99
	8/6/2008	32.82	ND	ND	65.90
	12/11/2008	35.17	ND	ND	63.55
	2/10/2009	35.12	ND	ND	63.60
	05/01/09	34.74	ND	ND	63.98
	11/12/09	31.06	ND	ND	67.66
	5/10/2010	27.35	ND	ND	71.37
	10/6/2010	32.03	ND	ND	66.69
	5/27/2011	29.48	ND	ND	69.24
	12/22/2011	30.88	ND	ND	67.84
	6/13/2012	32.42	ND	ND	66.30
	12/6/2012	35.13	ND	ND	63.59
	7/3/2013	32.86	ND	ND	65.86
	12/5/2013	34.33	ND	ND	64.39
	6/19/2014	27.93	ND	ND	70.79
	12/11/2014	31.81	ND	ND	66.91

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Monitoring Well Gauging Summary Table

Well ID	Date of Sample	Depth to Groundwater	Depth to Product	LPH Thickness	GW Elevation
MW-2	6/22/2015	29.92	ND	ND	68.80
MW-3	08/05/05	29.53	ND	ND	68.11
TOC Elevation =	02/16/06	27.60	ND	ND	70.04
97.64	03/14/06	29.14	ND	ND	68.50
	08/15/06	26.98	ND	ND	70.66
	02/27/07	28.70	ND	ND	68.94
	08/13/07	30.66	ND	ND	66.98
	2/6/2008	33.15	ND	ND	64.49
	5/8/2008	31.72	ND	ND	65.92
	8/6/2008	31.91	ND	ND	65.73
	12/11/2008	34.43	ND	ND	63.21
	2/10/2009	34.34	ND	ND	63.30
	05/01/09	33.82	ND	ND	63.82
	11/12/09	30.04	ND	ND	67.60
	5/10/2010	26.40	ND	ND	71.24
	10/6/2010	30.76	ND	ND	66.88
	5/27/2011	28.34	ND	ND	69.30
	12/22/2011	29.54	ND	ND	68.10
	6/13/2012	31.14	ND	ND	66.50
	12/6/2012	33.81	ND	ND	63.83
	7/3/2013	32.03	ND	ND	65.61
	12/5/2013	33.65	ND	ND	65.07
	6/19/2014	27.46	ND	ND	71.26
	12/11/2014	30.86	ND	ND	67.86
	6/22/2015	28.89	ND	ND	69.83
TF-1	08/13/07	LOCKED	-	-	-
	02/06/08	LOCKED	-	-	-
	05/08/08	LOCKED	-	-	-
	08/06/08	LOCKED	-	-	-
	12/11/08	LOCKED	-	-	-
	02/10/09	LOCKED	-	-	-
	05/01/09	LOCKED	-	-	-
	11/12/09	LOCKED	-	-	-
	5/10/2010	LOCKED	-	-	-
	10/6/2010	DRY	-	-	-
TF-2	8/13/2007	DRY	-	-	-
	2/6/2008	DRY	-	-	-
	5/8/2008	DRY	-	-	-
	8/6/2008	DRY	-	-	-
	12/11/2008	DRY	-	-	-
	2/10/2009	DRY	-	-	-
	5/1/2009	DRY	-	-	-
	11/12/2009	DRY	-	-	-

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Monitoring Well Gauging Summary Table

Well ID	Date of Sample	Depth to Groundwater	Depth to Product	LPH Thickness	GW Elevation
TF-2	5/10/2010	DRY	-	-	-
	10/6/2010	DRY	-	-	-
TF-3	08/13/07	DRY	-	-	-
	02/06/08	DRY	-	-	-
	05/08/08	DRY	-	-	-
	08/06/08	DRY	-	-	-
	12/11/08	DRY	-	-	-
	02/10/09	DRY	-	-	-
	05/01/09	DRY	-	-	-
	11/12/09	DRY	-	-	-
	5/10/2010	DRY	-	-	-
	10/6/2010	DRY	-	-	-
TF-4	8/13/2007	BLOCKED	-	-	-
	2/6/2008	DRY	-	-	-
	5/8/2008	DRY	-	-	-
	8/6/2008	DRY	-	-	-
	12/11/2008	DRY	-	-	-
	2/10/2009	DRY	-	-	-
	5/1/2009	DRY	-	-	-
	11/12/2009	DRY	-	-	-
	5/10/2010	DRY	-	-	-
	10/6/2010	DRY	-	-	-

ND - Non-detect
NA - Not Applicable

Fork BP
12601 Harford Rd, Kingsville, MD 21087
Monitoring Well Sampling Analytical Summary Table

Well ID	Date	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX	Naphthalene	MTBE	TPH/DRO	TPH/GRO	TCE
MDE GNCS CLEANUP Type I&II Aquifers		**5**	**1000**	**700**	**10000**	**NG**	**10**	**20**	**47**	**47**	
MW-1	08/05/05	ND	ND	ND	ND	ND	ND	ND	--	ND	
	02/16/06	ND	ND	ND	ND	ND	ND	ND	200 J	ND	
	03/14/06	ND	ND	ND	ND	ND	ND	ND	95 J	ND	
	08/15/06	ND	ND	ND	ND	ND	ND	ND	< 290	ND	
	02/27/07	ND	ND	ND	ND	ND	ND	ND	990	ND	
	08/13/07	ND	ND	ND	ND	ND	ND	ND	--	ND	
	02/06/08	ND	ND	ND	ND	ND	ND	ND	--	ND	
	5/8/2008	ND	ND	ND	ND	ND	ND	ND	490	ND	
	8/6/2008	ND	ND	ND	ND	ND	ND	ND	--	ND	
	12/11/08	ND	ND	ND	ND	ND	ND	ND	--	ND	
	02/10/09	ND	ND	ND	ND	ND	ND	ND	--	ND	
	05/01/09	ND	ND	ND	ND	ND	ND	ND	--	ND	
	11/12/09	ND	ND	ND	ND	ND	ND	ND	--	ND	
	5/10/2010	ND	ND	ND	ND	ND	ND	ND	--	ND	
	10/16/2010	ND	ND	ND	ND	ND	ND	ND	NS	NS	
	5/27/2011	ND	ND	ND	ND	ND	ND	ND	NS	NS	
	12/22/2011	ND	ND	ND	ND	ND	ND	ND	NS	NS	
	6/13/2012	ND	ND	ND	ND	ND	ND	ND	NS	NS	
	12/6/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	7/3/2013	ND	ND	ND	ND	ND	ND	ND	NS	NS	
	12/5/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	6/19/2014	ND	ND	ND	ND	ND	ND	ND	NS	NS	
	12/11/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/22/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Fork BP
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Monitoring Well Sampling Analytical Summary Table

Well ID	Date	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX	Naphthalene	MTBE	TPH/DRO	TPH/GRO	TCE
MDE GNCS CLEANUP Type I&II Aquifers		**5**	**1000**	**700**	**10000**	**NG**	**10**	**20**	**47**	**47**	
MW-2	08/05/05	ND	ND	ND	ND	ND	ND	8	--	ND	
	02/16/06	ND	ND	ND	ND	ND	ND	6	570	ND	
	03/14/06	ND	ND	ND	ND	ND	ND	9	170	ND	
	08/15/06	ND	ND	ND	ND	ND	ND	4 J	< 290	ND	
	02/27/07	ND	ND	ND	ND	ND	ND	5	250	ND	
	08/13/07	ND	ND	ND	ND	ND	ND	4 J	87 J	ND	
	2/6/2008	ND	ND	ND	ND	ND	ND	3 J	< 150	ND	
	5/8/2008	ND	ND	ND	ND	ND	ND	3 J	94 J	ND	
	8/6/2008	ND	ND	ND	ND	ND	ND	3 J	< 320	ND	
	12/11/2008	ND	ND	ND	ND	ND	ND	2 J	< 320	ND	
	2/10/2009	ND	ND	ND	ND	ND	ND	2.26	< 40.0	ND	
	05/01/09	ND	ND	ND	ND	ND	ND	1.78	--	ND	
	11/12/09	ND	ND	ND	ND	ND	ND	3.06	--	ND	
	5/10/2010	ND	ND	ND	ND	ND	ND	1.34	--	ND	
	10/6/2010	ND	ND	ND	ND	ND	ND	ND	NS	NS	
	5/27/2011	ND	ND	ND	ND	ND	ND	ND	NS	NS	
	12/22/2011	ND	ND	ND	ND	ND	ND	ND	NS	NS	
	6/13/2012	ND	ND	ND	ND	ND	ND	ND	NS	NS	
	12/6/2012	ND	ND	ND	ND	ND	ND	ND	NS	NS	
	7/3/2013	ND	ND	ND	ND	ND	ND	ND	NS	NS	
	12/5/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	6/19/2014	ND	ND	ND	ND	ND	ND	ND	NS	NS	
	12/11/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/22/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Fork BP
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Monitoring Well Sampling Analytical Summary Table

Well ID	Date	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX	Naphthalene	MTBE	TPH/DRO	TPH/GRO	TCE
MDE GNCS CLEANUP Type I&II Aquifers		**5**	**1000**	**700**	**10000**	**NG**	**10**	**20**	**47**	**47**	
MW-3	08/05/05	ND	ND	ND	ND	ND	ND	20	--	--	
	02/16/06	ND	ND	ND	ND	ND	ND	36	71 J	42 J	
	03/14/06	ND	ND	ND	ND	ND	ND	41	340 J	62	
	08/15/06	ND	ND	ND	ND	ND	ND	29	< 290	34 J	
	02/27/07	ND	ND	ND	ND	ND	ND	25	98	36 J	
	08/13/07	ND	ND	ND	ND	ND	ND	21	120	28 J	
	2/6/2008	ND	ND	ND	ND	ND	ND	22	< 150	29 J	
	5/8/2008	ND	ND	ND	ND	ND	ND	24	560	39 J	
	8/6/2008	ND	ND	ND	ND	ND	ND	29	370 J	23 J	
	12/11/2008	ND	ND	ND	ND	ND	ND	6	1,900	< 20	
	2/10/2009	ND	ND	ND	ND	ND	ND	16.6	146 J	< 25.0	
	05/01/09	ND	ND	ND	ND	ND	ND	6.92	--	--	
	11/12/09	ND	ND	ND	ND	ND	ND	12.8	--	--	
	5/10/2010	ND	ND	ND	ND	ND	ND	11.0	--	--	
	10/6/2010	ND	ND	ND	ND	ND	ND	26.3	NS	NS	
	5/27/2011	ND	ND	ND	ND	ND	ND	9.28	NS	NS	
	12/22/2011	ND	ND	ND	ND	ND	ND	ND	NS	NS	
	6/13/2012	ND	ND	ND	ND	ND	ND	ND	NS	NS	
	12/6/2012	ND	ND	ND	ND	ND	ND	ND	NS	NS	
	7/3/2013	ND	ND	ND	ND	ND	ND	ND	NS	NS	
	12/5/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	6/19/2014	ND	ND	ND	ND	ND	ND	ND	NS	NS	
	12/11/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/22/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Groundwater Sampling Data reported in ug/L

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

ND - Concentrations below method detectable levels

NA - Not Applicable

NG - No Guidance

NS - Not Sampled

Fork BP
12601 Harford Rd, Kingsville, MD 21087
POET System and DSW VOC Sampling Summary Table

ID	Date	Benzene ug/L	Toluene ug/L	Ethylbenzene ug/L	Xylenes ug/L	Total BTEX ug/L	MTBE ug/L	TAME ug/L	TBA ug/L	DIPE ug/L	Methylene Chloride	TCE
MDE GNCS, Type I and II Aquifers		**5**	**1,000**	**700**	**10,000**	**NG**	**20**	**NG**	**NG**	**NG**	**5**	**5**
12601 Harford Rd	8/5/05	ND	ND	ND	ND	ND	14.0	ND	ND	ND	ND	ND
Influent	2/16/06	ND	ND	ND	ND	ND	9.00	ND	ND	ND	ND	ND
	3/14/06	ND	ND	ND	ND	ND	7.50	ND	ND	ND	ND	ND
	8/15/06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/27/07	ND	ND	ND	ND	ND	7.00	ND	ND	ND	ND	ND
	5/16/07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/13/07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/9/07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/6/08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/8/08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/6/08	ND	ND	ND	ND	ND	4.30	ND	ND	ND	ND	ND
	11/14/08	ND	ND	ND	ND	ND	3.30	ND	ND	ND	ND	ND
	2/10/09	ND	ND	ND	ND	ND	2.93	ND	ND	ND	ND	ND
	5/1/09	ND	ND	ND	ND	ND	3.11	ND	ND	ND	ND	ND
	8/14/09	ND	ND	ND	ND	ND	2.54	ND	ND	ND	ND	ND
	2/19/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/10/10	ND	ND	ND	ND	ND	2.33	ND	ND	ND	ND	ND
	10/6/10	ND	ND	ND	ND	ND	2.16	ND	ND	ND	ND	ND
	2/16/11	ND	ND	ND	ND	ND	1.85	ND	ND	ND	ND	ND
	5/27/11	ND	ND	ND	ND	ND	2.39	ND	ND	ND	ND	ND
	8/8/11	ND	ND	ND	ND	ND	3.21	ND	ND	ND	ND	ND
	12/22/11	ND	ND	ND	ND	ND	1.36	ND	ND	ND	ND	ND
	3/6/12	ND	ND	ND	ND	ND	1.61	ND	ND	ND	ND	ND
	6/13/12	ND	ND	ND	ND	ND	1.46	ND	ND	ND	ND	ND
	9/10/12	ND	ND	ND	ND	ND	5.79	ND	ND	ND	ND	ND
	12/6/12	ND	ND	ND	ND	ND	4.32	ND	ND	ND	ND	ND
	3/25/13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Fork BP
12601 Harford Rd, Kingsville, MD 21087
POET System and DSW VOC Sampling Summary Table

ID	Date	Benzene ug/L	Toluene ug/L	Ethylbenzene ug/L	Xylenes ug/L	Total BTEX ug/L	MTBE ug/L	TAME ug/L	TBA ug/L	DIPE ug/L	Methylene Chloride	TCE
MDE GNCS, Type I and II Aquifers		**5**	**1,000**	**700**	**10,000**	**NG**	**20**	**NG**	**NG**	**NG**	**5**	**5**
Intermediate 1	10/6/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/16/11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/27/11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/8/11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/22/11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/6/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/13/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/10/12	ND	ND	ND	ND	ND	5.08	ND	ND	ND	ND	ND
	12/6/12	ND	ND	ND	ND	ND	4.48	ND	ND	ND	ND	ND
	3/25/13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Intermediate 2	6/13/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/10/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/6/12	ND	ND	ND	ND	ND	4.53	ND	ND	ND	ND	ND
	3/25/13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Effluent	10/6/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/16/11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/27/11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/8/11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/22/11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/6/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/13/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/10/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/6/12	ND	ND	ND	ND	ND	3.46	ND	ND	ND	ND	ND
	3/25/13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12601 Harford Rd	3/25/14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DSW	3/3/15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Fork BP
12601 Harford Rd, Kingsville, MD 21087
POET System and DSW VOC Sampling Summary Table

ID	Date	Benzene ug/L	Toluene ug/L	Ethylbenzene ug/L	Xylenes ug/L	Total BTEX ug/L	MTBE ug/L	TAME ug/L	TBA ug/L	DIPE ug/L	Methylene Chloride	TCE
MDE GNCS, Type I and II Aquifers		**5**	**1,000**	**700**	**10,000**	**NG**	**20**	**NG**	**NG**	**NG**	**5**	**5**
12609 Harford Road	4/25/06	ND	ND	ND	ND	ND	**138**	ND	ND	ND	ND	ND
Influent	5/26/06	ND	23.0	0.80	2.50	26.3	**87.0**	ND	ND	ND	ND	ND
	6/14/06	ND	0.1 J	ND	ND	ND	**110**	ND	ND	ND	ND	ND
	7/18/06	ND	5.00	ND	ND	5.00	**140**	ND	ND	ND	ND	ND
	8/15/06	ND	8.20	ND	ND	8.20	**160**	ND	ND	ND	ND	ND
	9/14/06	ND	0.4 J	ND	ND	ND	**140**	ND	5.1 J	ND	ND	ND
	10/19/06	ND	1.10	ND	ND	1.10	**130**	ND	ND	ND	ND	ND
	11/27/06	ND	1.00	ND	ND	1.00	**100**	ND	ND	ND	ND	ND
	12/21/06	ND	0.4 J	ND	ND	ND	**98.0**	ND	ND	ND	ND	ND
	1/11/07	ND	0.90	ND	ND	0.90	**97.0**	ND	ND	ND	ND	ND
	2/27/07	ND	2.90	ND	ND	2.90	**84.0**	ND	ND	ND	ND	ND
	3/15/07	ND	0.6 J	ND	ND	ND	**86.0**	ND	ND	ND	ND	ND
	5/16/07	ND	0.1 J	ND	ND	ND	**69.0**	ND	ND	ND	ND	ND
	8/13/07	ND	4.70	ND	ND	4.70	< 0.1	ND	ND	ND	ND	ND
	11/9/07	ND	0.90	ND	ND	0.90	**75.0**	0.50 J	ND	ND	ND	ND
	2/6/08	ND	0.60	ND	ND	0.60	**88.0**	0.80	ND	ND	ND	ND
	5/8/08	ND	0.3 J	ND	ND	ND	**120 E †**	1.90	ND	ND	ND	ND
	8/6/08	ND	3.20	ND	ND	3.20	**110**	2.00	ND	ND	ND	ND
	11/14/08	ND	1.00	ND	ND	1.00	**120**	2.60	ND	ND	ND	ND
	2/10/09	ND	3.63	ND	ND	3.63	**202**	2.78	ND	ND	ND	ND
	5/1/09	ND	0.60	ND	ND	0.60	**89.0**	ND	ND	ND	ND	ND
	8/14/09	ND	ND	ND	ND	ND	**65.5**	1.44	ND	ND	ND	ND
	11/12/09	ND	ND	ND	ND	ND	**64.4**	2.30	ND	ND	ND	ND
	2/19/10	ND	ND	ND	ND	ND	**33.9**	1.77	ND	ND	ND	ND
	5/10/10	ND	ND	ND	ND	ND	**24.6**	1.33	ND	ND	ND	ND
	8/2/10	ND	3.06	ND	ND	3.06	**21.3**	1.29	ND	ND	ND	ND
	10/6/10	ND	ND	ND	ND	ND	**30.9**	ND	ND	ND	ND	ND
	2/16/11	ND	ND	ND	ND	ND	**89.9**	1.25	ND	ND	ND	ND
	5/27/11	ND	ND	ND	ND	ND	**124**	ND	ND	ND	ND	ND
	8/31/11	ND	ND	ND	ND	ND	**102**	ND	ND	ND	ND	ND
	12/22/11	ND	ND	ND	ND	ND	**72.2**	0.89	ND	0.66	ND	ND
	3/6/12	ND	ND	ND	ND	ND	**89.9**	1.03	ND	0.79	ND	ND
	6/13/12	ND	ND	ND	ND	ND	**156**	ND	ND	1.65	ND	ND
	9/10/12	ND	ND	ND	ND	ND	**231**	ND	ND	ND	ND	ND
	12/6/12	ND	ND	ND	ND	ND	**185**	ND	ND	2.15	ND	ND
	3/25/13	ND	ND	ND	ND	ND	ND	ND	ND	2.70	ND	ND
	9/9/13	ND	0.95	ND	ND	ND	**545**	2.45	ND	4.57	ND	ND
	12/5/13	ND	ND	ND	ND	ND	**299**	1.93	ND	4.11	ND	ND
	3/25/14	ND	ND	ND	ND	ND	**162**	2.86	ND	3.23	ND	ND
	6/19/14	ND	32.5	ND	ND	32.5	**174**	2.61	ND	3.52	ND	ND
	9/23/14	ND	ND	ND	ND	ND	**500**	3.3	ND	6.3	ND	ND
	12/11/14	ND	ND	ND	ND	ND	**292**	ND	ND	ND	ND	ND
	3/3/15	ND	ND	ND	ND	ND	**32.9**	ND	ND	ND	ND	ND
	6/22/15	ND	ND	1.88	ND	2	198	ND	ND	6	ND	ND

Fork BP
12601 Harford Rd, Kingsville, MD 21087
POET System and DSW VOC Sampling Summary Table

ID	Date	Benzene ug/L	Toluene ug/L	Ethylbenzene ug/L	Xylenes ug/L	Total BTEX ug/L	MTBE ug/L	TAME ug/L	TBA ug/L	DIPE ug/L	Methylene Chloride	TCE
MDE GNCS, Type I and II Aquifers		**5**	**1,000**	**700**	**10,000**	**NG**	**20**	**NG**	**NG**	**NG**	**5**	**5**
12609 Harford Road	10/6/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Intermediate	2/16/11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/27/11	ND	ND	ND	ND	ND	2.93	ND	ND	ND	ND	ND
	8/31/11	ND	ND	ND	ND	ND	6.01	ND	ND	ND	ND	ND
	12/22/11	ND	ND	ND	ND	ND	4.94	ND	ND	ND	ND	ND
	3/6/12	ND	ND	ND	ND	ND	6.58	ND	ND	ND	ND	ND
	6/13/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/10/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/6/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/25/13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/9/13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/5/13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12609 Harford Road	3/25/14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Intermediate	6/19/14	ND	29.2	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/23/14	ND	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/11/14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/3/15	ND	ND	ND	ND	ND	3.5	ND	ND	ND	ND	ND
	6/22/15	ND	1.86	ND	ND	2	ND	ND	ND	ND	ND	ND
12609 Harford Road	10/6/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Effluent	2/16/11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/27/11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/31/11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/22/11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/6/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/13/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/10/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/6/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/25/13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/9/13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/5/13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/25/14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/19/14	ND	27.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
	7/18/14	ND	1.22	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/23/14	ND	0.9	ND	ND	ND	ND	ND	ND	ND	1.0	ND
	12/11/14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/3/15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/22/15	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	ND

Fork BP
12601 Harford Rd, Kingsville, MD 21087
POET System and DSW VOC Sampling Summary Table

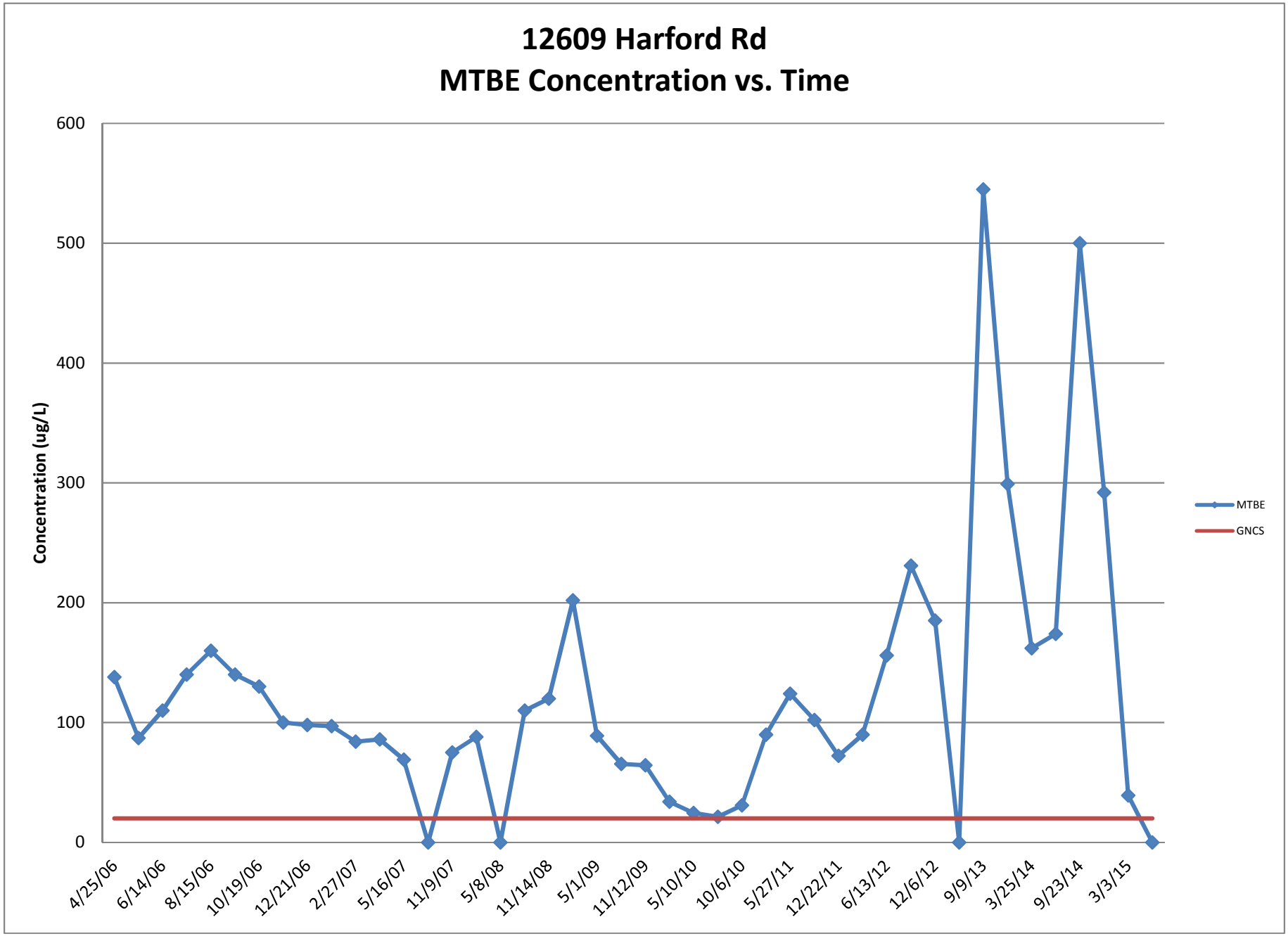
ID	Date	Benzene ug/L	Toluene ug/L	Ethylbenzene ug/L	Xylenes ug/L	Total BTEX ug/L	MTBE ug/L	TAME ug/L	TBA ug/L	DIPE ug/L	Methylene Chloride	TCE
MDE GNCS, Type I and II Aquifers		**5**	**1,000**	**700**	**10,000**	**NG**	**20**	**NG**	**NG**	**NG**	**5**	**5**
12613 Harford Road	4/25/06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Influent	5/26/06	ND	ND	ND	ND	ND	**40.0**	0.4 J	ND	ND	ND	ND
	6/14/06	ND	ND	ND	ND	ND	**44.0**	0.4 J	ND	ND	ND	ND
	7/18/06	ND	ND	ND	ND	ND	**47.0**	0.4 J	ND	ND	ND	ND
	8/15/06	ND	ND	ND	ND	ND	**92.0**	1.3 J	ND	ND	ND	ND
	9/14/06	ND	0.1 J	ND	ND	ND	**69.0**	0.80	ND	ND	ND	ND
	10/19/06	ND	0.2 J	ND	ND	ND	**58.0**	0.60	ND	ND	ND	ND
	11/27/06	ND	ND	ND	ND	ND	**56.0**	0.60	ND	ND	ND	ND
	12/21/06	ND	ND	ND	ND	ND	**47.0**	0.60	ND	ND	ND	ND
	1/11/07	ND	ND	ND	ND	ND	**46.0**	0.60	ND	ND	ND	ND
	2/27/07	ND	ND	ND	ND	ND	**48.0**	0.60	ND	ND	ND	ND
	3/15/07	ND	ND	ND	ND	ND	**30.0**	0.2 J	ND	ND	ND	ND
	5/16/07	ND	ND	ND	ND	ND	**49.0**	0.4 J	ND	ND	ND	ND
	8/13/07	ND	ND	ND	ND	ND	**44.0**	0.60	ND	ND	ND	ND
	11/9/07	ND	ND	ND	ND	ND	**25.0**	0.2 J	ND	ND	ND	ND
	2/6/08	ND	ND	ND	ND	ND	11.0	0.1 J	ND	ND	ND	ND
	5/8/08	ND	ND	ND	ND	ND	12.0	0.2 J	ND	ND	ND	ND
	8/6/08	ND	ND	ND	ND	ND	11.0	0.1 J	ND	ND	ND	ND
	11/14/08	ND	ND	ND	ND	ND	8.20	ND	ND	ND	ND	ND
	2/10/09	ND	ND	ND	ND	ND	4.97	ND	ND	ND	ND	ND
	5/1/09	ND	ND	ND	ND	ND	9.40	ND	ND	ND	ND	ND
	8/14/09	ND	ND	ND	ND	ND	**22.1**	ND	ND	ND	ND	ND
	11/12/09	ND	ND	ND	ND	ND	**32.7**	ND	ND	ND	ND	ND
	2/19/10	ND	ND	ND	ND	ND	**29.0**	ND	ND	ND	ND	ND
	5/10/10	ND	ND	ND	ND	ND	14.2	ND	ND	ND	ND	ND
	8/2/10	ND	ND	ND	ND	ND	15.2	ND	ND	ND	ND	ND
	10/6/10	ND	ND	ND	ND	ND	13.1	ND	ND	ND	ND	ND
	2/16/11	ND	ND	ND	ND	ND	5.15	ND	ND	ND	ND	ND
	5/27/11	ND	ND	ND	ND	ND	3.74	ND	ND	ND	ND	ND
	8/31/11	ND	ND	ND	ND	ND	5.32	ND	ND	ND	ND	ND
	12/22/11	ND	ND	ND	ND	ND	3.63	ND	ND	ND	ND	ND
	3/6/12	ND	ND	ND	ND	ND	2.07	ND	ND	ND	ND	ND
	6/13/12	ND	ND	ND	ND	ND	1.22	ND	ND	ND	ND	ND
12613 Harford Road	9/10/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Influent	12/6/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/25/13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12613 Harford Road	10/6/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Intermediate	2/16/11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/27/11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/31/11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/22/11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/6/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/13/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/10/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/6/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/25/13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

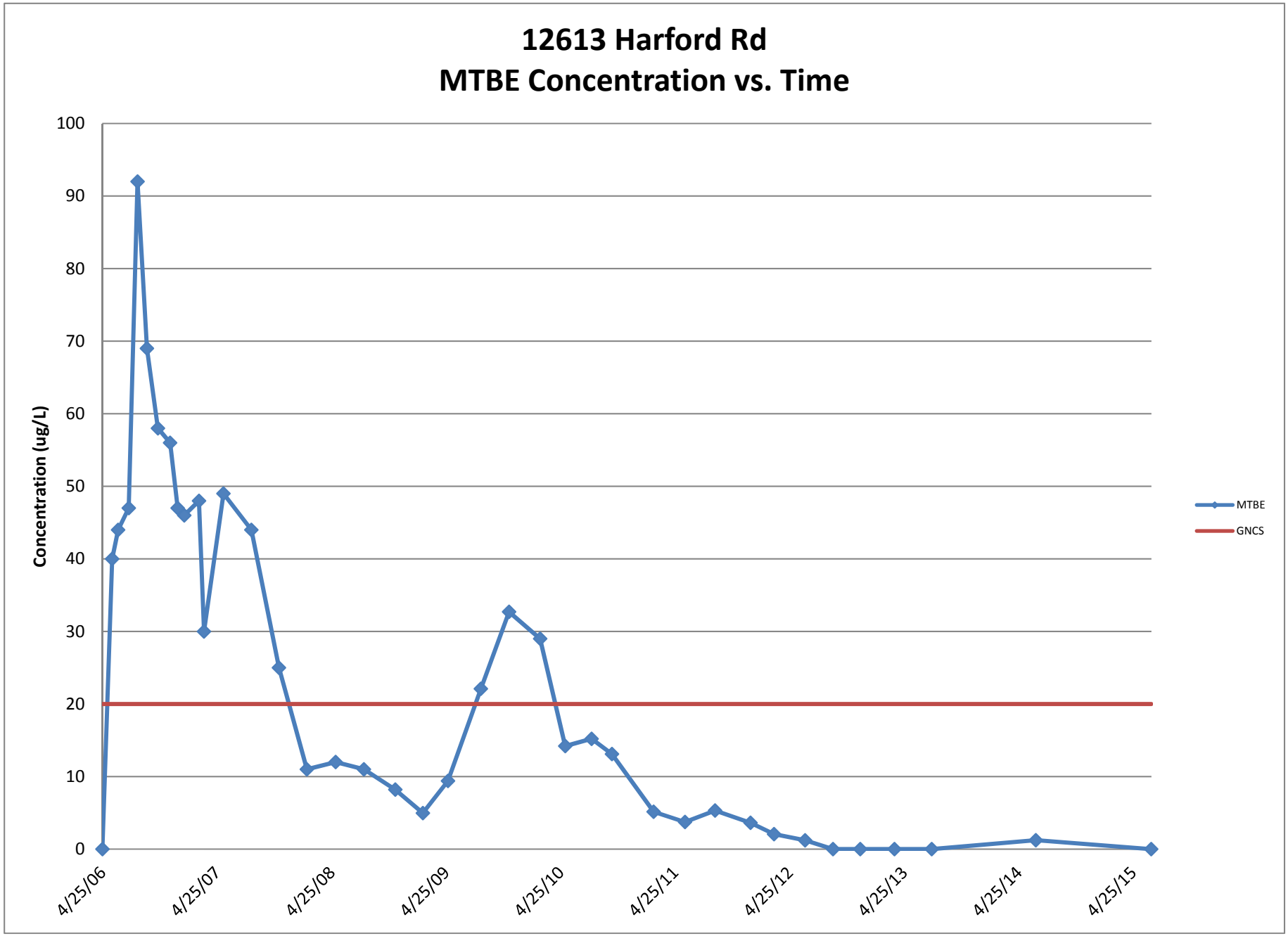
Fork BP
12601 Harford Rd, Kingsville, MD 21087
POET System and DSW VOC Sampling Summary Table

ID	Date	Benzene ug/L	Toluene ug/L	Ethylbenzene ug/L	Xylenes ug/L	Total BTEX ug/L	MTBE ug/L	TAME ug/L	TBA ug/L	DIPE ug/L	Methylene Chloride	TCE
MDE GNCS, Type I and II Aquifers		**5**	**1,000**	**700**	**10,000**	**NG**	**20**	**NG**	**NG**	**NG**	**5**	**5**
12613 Harford Road	10/6/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Effluent	2/16/11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/27/11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/31/11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/22/11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/6/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/13/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/10/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/6/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/25/13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DSW	7/22/13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/19/14	ND	ND	ND	ND	ND	1.23	ND	ND	ND	ND	ND
	6/22/15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12617 Harford Road	5/10/06	ND	ND	ND	ND	ND	15.0	--	--	--	ND	ND
Influent	6/14/06	ND	ND	ND	ND	ND	**20.0**	0.2 J	ND	0.1 J	ND	ND
	8/2/06	ND	ND	ND	ND	ND	15.0	0.1 J	ND	0.2 J	ND	ND
	9/14/06	ND	ND	ND	ND	ND	9.70	0.1 J	ND	0.1 J	ND	ND
	10/19/06	ND	ND	ND	ND	ND	**24.0**	0.3 J	ND	0.2 J	ND	ND
	11/27/06	ND	ND	ND	ND	ND	**21.0**	0.2 J	ND	ND	ND	ND
	12/21/06	ND	ND	ND	ND	ND	18.0	0.2 J	ND	ND	ND	ND
	1/11/07	ND	ND	ND	ND	ND	15.0	0.2 J	ND	ND	ND	ND
	2/27/07	ND	ND	ND	ND	ND	11.0	0.1 J	ND	ND	ND	ND
	3/15/07	ND	ND	ND	ND	ND	15.0	0.2 J	ND	ND	ND	ND
	5/31/07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/13/07	ND	ND	ND	ND	ND	7.40	0.1 J	ND	0.1 J	ND	ND
	11/9/07	ND	ND	ND	ND	ND	11.0	0.1 J	ND	ND	ND	ND
	2/6/08	ND	ND	ND	ND	ND	11.0	0.1 J	ND	ND	ND	ND
	5/8/08	ND	ND	ND	ND	ND	15.0	0.2 J	ND	ND	ND	ND
	8/15/08	ND	ND	ND	ND	ND	7.90	ND	ND	0.1 J	ND	ND
	11/14/08	ND	ND	ND	ND	ND	17.0	0.2 J	ND	0.1 J	ND	ND
	2/10/09	ND	ND	ND	ND	ND	16.0	ND	ND	ND	ND	ND
	5/1/09	ND	ND	ND	ND	ND	16.4	ND	ND	ND	ND	ND
	8/14/09	ND	ND	ND	ND	ND	6.92	ND	ND	ND	ND	ND
	11/12/09	ND	ND	ND	ND	ND	5.73	ND	ND	ND	ND	ND
	2/19/10	ND	ND	ND	ND	ND	6.41	ND	ND	ND	ND	ND
	5/10/10	ND	ND	ND	ND	ND	3.26	ND	ND	ND	ND	ND
	8/2/10	ND	ND	ND	ND	ND	1.04	ND	ND	ND	ND	ND
	10/6/10	ND	ND	ND	ND	ND	0.68	ND	ND	ND	ND	ND
	6/13/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/6/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12617 Harford Road	10/6/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Intermediate	6/13/12	ND	ND	ND	ND	ND	1.11	ND	ND	ND	ND	ND
	12/6/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12617 Harford Road	10/6/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Effluent	6/13/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/6/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DSW	3/25/14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.71
	3/3/15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = Not detectable at method limits
NG = No Guideline
J = Estimated Value

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


12609 Harford Rd
MTBE Concentration vs. Time
Concentration (ug/L)
600
500
400
300
200
100
0
4/25/06
6/14/06
8/15/06
10/19/06
12/21/06
2/27/07
5/16/07
11/9/07
5/8/08
11/14/08
5/1/09
11/12/09
5/10/10
10/6/10
5/27/11
12/22/11
6/13/12
12/6/12
9/9/13
3/25/14
9/23/14
3/3/15
MTBE
GNCS


12613 Harford Rd
MTBE Concentration vs. Time
Concentration (ug/L)
100
90
80
70
60
50
40
30
20
10
0
4/25/06
4/25/07
4/25/08
4/25/09
4/25/10
4/25/11
4/25/12
4/25/13
4/25/14
4/25/15
MTBE
GNCS

Appendix C
Reports of Analysis and Chain of Custody Records

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

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

Certificate of Analysis

Sample Identification:	**TRIP BLANK**	**Project Identification:**	**FORK BP**
MATRIX:	**water**	**Client Identification:**	**CARROLL FUEL**
Sample Date:	**6/22/2015**	**Client Telephone:**	
Date Received:	**6/24/2015**	**Client Fax:**	
Extraction Date:	**na**	**Analyst:**	**MM**
Analysis Date:	**7/6/2015**	**Lab File:**	**70615.D08**

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:**	**FORK BP**
MATRIX:	**water**	**Client Identification:**	**CARROLL FUEL**
Sample Date:	**6/22/2015**	**Client Telephone:**	
Date Received:	**6/24/2015**	**Client Fax:**	
Extraction Date:	**na**	**Analyst:**	**MM**
Analysis Date:	**7/6/2015**	**Lab File:**	**70615.D08**

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	%	114	EPA 524.2
Dibromofluoromethane	%	119	EPA 524.2
Toluene-d8	%	99	EPA 524.2
Bromofluorobenzene	%	102	EPA 524.2

MDE Drinking Water Supply Laboratory Certification #333

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

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

Certificate of Analysis

Sample Identification:	**12609 EFFLUENT**	**Project Identification:**	**FORK BP**
MATRIX:	**water**	**Client Identification:**	**CARROLL FUEL**
Sample Date:	**6/22/2015**	**Client Telephone:**	
Date Received:	**6/24/2015**	**Client Fax:**	
Extraction Date:	**na**	**Analyst:**	**MM**
Analysis Date:	**7/6/2015**	**Lab File:**	**70615.D09**

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	0.5	ug/L	ND	EPA 524.2
Chloromethane	0.5	ug/L	ND	EPA 524.2
Vinyl Chloride	0.5	ug/L	ND	EPA 524.2
Bromomethane	0.5	ug/L	ND	EPA 524.2
Chloroethane	0.5	ug/L	ND	EPA 524.2
Trichlorofluoromethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloroethene	0.5	ug/L	ND	EPA 524.2
tert-Butyl Alcohol (TBA)	10	ug/L	ND	EPA 524.2
Methylene Chloride	0.5	ug/L	ND	EPA 524.2
trans-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Methyl tert-Butyl Ether (MtBE)	0.5	ug/L	ND	EPA 524.2
1,1-Dichloroethane	0.5	ug/L	ND	EPA 524.2
Diisopropyl Ether (DIPE)	0.5	ug/L	ND	EPA 524.2
cis-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Bromochloromethane	0.5	ug/L	ND	EPA 524.2
Chloroform	0.5	ug/L	ND	EPA 524.2
2,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Ethyl tert-Butyl Ether (EtBE)	0.5	ug/L	ND	EPA 524.2
1,2-Dichloroethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Alcohol (TAA)	10	ug/L	ND	EPA 524.2
1,1,1-Trichloroethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloropropene	0.5	ug/L	ND	EPA 524.2
Carbon tetrachloride	0.5	ug/L	ND	EPA 524.2
Benzene	0.5	ug/L	ND	EPA 524.2
tert-Amyl Methyl Ether (TAME)	0.5	ug/L	ND	EPA 524.2
Dibromomethane	0.5	ug/L	ND	EPA 524.2
1,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Trichloroethene	0.5	ug/L	ND	EPA 524.2
Bromodichloromethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Ethyl Ether (TAEE)	0.5	ug/L	ND	EPA 524.2
cis-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
trans-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
1,1,2-Trichloroethane	0.5	ug/L	ND	EPA 524.2
Toluene	0.5	ug/L	1.78	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:	**12609 EFFLUENT**	**Project Identification:**	**FORK BP**
MATRIX:	**water**	**Client Identification:**	**CARROLL FUEL**
Sample Date:	**6/22/2015**	**Client Telephone:**	
Date Received:	**6/24/2015**	**Client Fax:**	
Extraction Date:	**na**	**Analyst:**	**MM**
Analysis Date:	**7/6/2015**	**Lab File:**	**70615.D09**

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	%	120	EPA 524.2
Toluene-d8	%	98	EPA 524.2
Bromofluorobenzene	%	102	EPA 524.2

MDE Drinking Water Supply Laboratory Certification #333

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

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

Certificate of Analysis

Sample Identification:	**12609 INTER**	**Project Identification:**	**FORK BP**
MATRIX:	**water**	**Client Identification:**	**CARROLL FUEL**
Sample Date:	**6/22/2015**	**Client Telephone:**	
Date Received:	**6/24/2015**	**Client Fax:**	
Extraction Date:	**na**	**Analyst:**	**MM**
Analysis Date:	**7/6/2015**	**Lab File:**	**70615.D10**

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	0.5	ug/L	ND	EPA 524.2
Chloromethane	0.5	ug/L	ND	EPA 524.2
Vinyl Chloride	0.5	ug/L	ND	EPA 524.2
Bromomethane	0.5	ug/L	ND	EPA 524.2
Chloroethane	0.5	ug/L	ND	EPA 524.2
Trichlorofluoromethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloroethene	0.5	ug/L	ND	EPA 524.2
tert-Butyl Alcohol (TBA)	10	ug/L	ND	EPA 524.2
Methylene Chloride	0.5	ug/L	ND	EPA 524.2
trans-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Methyl tert-Butyl Ether (MtBE)	0.5	ug/L	ND	EPA 524.2
1,1-Dichloroethane	0.5	ug/L	ND	EPA 524.2
Diisopropyl Ether (DIPE)	0.5	ug/L	ND	EPA 524.2
cis-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Bromochloromethane	0.5	ug/L	ND	EPA 524.2
Chloroform	0.5	ug/L	ND	EPA 524.2
2,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Ethyl tert-Butyl Ether (EtBE)	0.5	ug/L	ND	EPA 524.2
1,2-Dichloroethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Alcohol (TAA)	10	ug/L	ND	EPA 524.2
1,1,1-Trichloroethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloropropene	0.5	ug/L	ND	EPA 524.2
Carbon tetrachloride	0.5	ug/L	ND	EPA 524.2
Benzene	0.5	ug/L	ND	EPA 524.2
tert-Amyl Methyl Ether (TAME)	0.5	ug/L	ND	EPA 524.2
Dibromomethane	0.5	ug/L	ND	EPA 524.2
1,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Trichloroethene	0.5	ug/L	ND	EPA 524.2
Bromodichloromethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Ethyl Ether (TAEE)	0.5	ug/L	ND	EPA 524.2
cis-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
trans-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
1,1,2-Trichloroethane	0.5	ug/L	ND	EPA 524.2
Toluene	0.5	ug/L	1.86	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:	**12609 INTER**	**Project Identification:**	**FORK BP**
MATRIX:	**water**	**Client Identification:**	**CARROLL FUEL**
Sample Date:	**6/22/2015**	**Client Telephone:**	
Date Received:	**6/24/2015**	**Client Fax:**	
Extraction Date:	**na**	**Analyst:**	**MM**
Analysis Date:	**7/6/2015**	**Lab File:**	**70615.D10**

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	%	117	EPA 524.2
Dibromofluoromethane	%	119	EPA 524.2
Toluene-d8	%	100	EPA 524.2
Bromofluorobenzene	%	101	EPA 524.2

MDE Drinking Water Supply Laboratory Certification #333

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

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

Certificate of Analysis

Sample Identification:	**12609 INFLUENT**	**Project Identification:**	**FORK BP**
MATRIX:	**water**	**Client Identification:**	**CARROLL FUEL**
Sample Date:	**6/22/2015**	**Client Telephone:**	
Date Received:	**6/24/2015**	**Client Fax:**	
Extraction Date:	**na**	**Analyst:**	**MM**
Analysis Date:	**7/6/2015**	**Lab File:**	**70615.D11**

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	198	EPA 524.2
1,1-Dichloroethane	0.5	ug/L	ND	EPA 524.2
Diisopropyl Ether (DIPE)	0.5	ug/L	5.5	EPA 524.2
cis-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Bromochloromethane	0.5	ug/L	ND	EPA 524.2
Chloroform	0.5	ug/L	ND	EPA 524.2
2,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Ethyl tert-Butyl Ether (EtBE)	0.5	ug/L	ND	EPA 524.2
1,2-Dichloroethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Alcohol (TAA)	10	ug/L	ND	EPA 524.2
1,1,1-Trichloroethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloropropene	0.5	ug/L	ND	EPA 524.2
Carbon tetrachloride	0.5	ug/L	ND	EPA 524.2
Benzene	0.5	ug/L	ND	EPA 524.2
tert-Amyl Methyl Ether (TAME)	0.5	ug/L	ND	EPA 524.2
Dibromomethane	0.5	ug/L	ND	EPA 524.2
1,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Trichloroethene	0.5	ug/L	ND	EPA 524.2
Bromodichloromethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Ethyl Ether (TAEE)	0.5	ug/L	ND	EPA 524.2
cis-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
trans-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
1,1,2-Trichloroethane	0.5	ug/L	ND	EPA 524.2
Toluene	0.5	ug/L	1.88	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:	**12609 INFLUENT**	**Project Identification:**	**FORK BP**
MATRIX:	**water**	**Client Identification:**	**CARROLL FUEL**
Sample Date:	**6/22/2015**	**Client Telephone:**	
Date Received:	**6/24/2015**	**Client Fax:**	
Extraction Date:	**na**	**Analyst:**	**MM**
Analysis Date:	**7/6/2015**	**Lab File:**	**70615.D11**

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	%	114	EPA 524.2
Dibromofluoromethane	%	118	EPA 524.2
Toluene-d8	%	99	EPA 524.2
Bromofluorobenzene	%	100	EPA 524.2

MDE Drinking Water Supply Laboratory Certification #333

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

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

Certificate of Analysis

Sample Identification:	**12613 DSW**	**Project Identification:**	**FORK BP**
MATRIX:	**water**	**Client Identification:**	**CARROLL FUEL**
Sample Date:	**6/22/2015**	**Client Telephone:**	
Date Received:	**6/24/2015**	**Client Fax:**	
Extraction Date:	**na**	**Analyst:**	**MM**
Analysis Date:	**7/6/2015**	**Lab File:**	**70615.D12**

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:	**12613 DSW**	**Project Identification:**	**FORK BP**
MATRIX:	**water**	**Client Identification:**	**CARROLL FUEL**
Sample Date:	**6/22/2015**	**Client Telephone:**	
Date Received:	**6/24/2015**	**Client Fax:**	
Extraction Date:	**na**	**Analyst:**	**MM**
Analysis Date:	**7/6/2015**	**Lab File:**	**70615.D12**

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	%	119	EPA 524.2
Dibromofluoromethane	%	122	EPA 524.2
Toluene-d8	%	99	EPA 524.2
Bromofluorobenzene	%	100	EPA 524.2

MDE Drinking Water Supply Laboratory Certification #333

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

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

Certificate of Analysis

Sample Identification:	**MW-1**	**Project Identification:**	**FORK BP**
MATRIX:	**water**	**Client Identification:**	**CARROLL FUEL**
Sample Date:	**6/22/2015**	**Client Telephone:**	
Date Received:	**6/24/2015**	**Client Fax:**	
Extraction Date:	**6/29/2015**	**Analyst:**	**MM**
Analysis Date:	**6/30/2015**	**Lab File:**	**63015.D16**

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-1**	**Project Identification:**	**FORK BP**
MATRIX:	**water**	**Client Identification:**	**CARROLL FUEL**
Sample Date:	**6/22/2015**	**Client Telephone:**	
Date Received:	**6/24/2015**	**Client Fax:**	
Extraction Date:	**6/29/2015**	**Analyst:**	**MM**
Analysis Date:	**6/30/2015**	**Lab File:**	**63015.D16**

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	%	118	EPA 8260
Dibromofluoromethane	%	118	EPA 8260
TFT	%	114	EPA 8015B
Toluene-d8	%	101	EPA 8260
Bromofluorobenzene	%	107	EPA 8260

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

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

Certificate of Analysis

Sample Identification:	**MW-2**	**Project Identification:**	**FORK BP**
MATRIX:	**water**	**Client Identification:**	**CARROLL FUEL**
Sample Date:	**6/22/2015**	**Client Telephone:**	
Date Received:	**6/24/2015**	**Client Fax:**	
Extraction Date:	**6/29/2015**	**Analyst:**	**MM**
Analysis Date:	**6/30/2015**	**Lab File:**	**63015.D17**

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-2**	**Project Identification:**	**FORK BP**
MATRIX:	**water**	**Client Identification:**	**CARROLL FUEL**
Sample Date:	**6/22/2015**	**Client Telephone:**	
Date Received:	**6/24/2015**	**Client Fax:**	
Extraction Date:	**6/29/2015**	**Analyst:**	**MM**
Analysis Date:	**6/30/2015**	**Lab File:**	**63015.D17**

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	%	116	EPA 8260
Dibromofluoromethane	%	116	EPA 8260
TFT	%	114	EPA 8015B
Toluene-d8	%	100	EPA 8260
Bromofluorobenzene	%	107	EPA 8260

ADVANCED ENVIRONMENTAL CONCEPTS, INC.

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

Certificate of Analysis

Sample Identification:	**MW-3**	**Project Identification:**	**FORK BP**
MATRIX:	**water**	**Client Identification:**	**CARROLL FUEL**
Sample Date:	**6/22/2015**	**Client Telephone:**	
Date Received:	**6/24/2015**	**Client Fax:**	
Extraction Date:	**6/29/2015**	**Analyst:**	**MM**
Analysis Date:	**6/30/2015**	**Lab File:**	**63015.D18**

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:**	**FORK BP**
MATRIX:	**water**	**Client Identification:**	**CARROLL FUEL**
Sample Date:	**6/22/2015**	**Client Telephone:**	
Date Received:	**6/24/2015**	**Client Fax:**	
Extraction Date:	**6/29/2015**	**Analyst:**	**MM**
Analysis Date:	**6/30/2015**	**Lab File:**	**63015.D18**

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	%	120	EPA 8260
Dibromofluoromethane	%	121	EPA 8260
TFT	%	114	EPA 8015B
Toluene-d8	%	100	EPA 8260
Bromofluorobenzene	%	106	EPA 8260

ADVANCED ENVIRONMENTAL CONCEPTS, INC.
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Phone 410-795-5955 • Fax 410-795-9459
www.AECEnviro.com

Chain of Custody Record

Client: CIFCO
Project Name: Fork, BP
SDG#:
Address: 12601 Harford Rd
Project Location: Kingsville, MD
Phone: Fax:
Contact: Herb Meade
Email:
Sample By: BW0877
Receive Completed Report Via (Circle One) U.S. Mail Email Fax

	Sample #	Sample ID	Date	Time	Matrix	pH	Preservatives: HCL	HCL	HCL				Requested Analysis: 8260 VOC+OXY	8015 DRO/GRO	524.2				Observation
1	2	Trip Blank	6/22/15		O										X				
2		12609 Effluent			DW										X				
3		12609 Intermediate													X				
4		12609 Influent													X				
5		12613 DSW													X				
6		MW-1			GW								X	X					
7		MW-2											X	X					
8		MW-3											X	X					
9																			
10																			

Relinquished/Received By Signature	Date	Time	Delivery Method
Relinquished By:	6/24/15	11:30	Hand
Received By:	6/24/15		
Relinquished By:			
Received By:			
Relinquished By:			
Received By:			

Matrix Codes: SO = Soil, GW = Ground Water, WW = Waste Water, VP = Vapor, SL = Sludge, DW = Drinking Water, O = Other

Special Instructions / Comments / QC Requirements:

Lab Use Only

Temp of Cooler: 4 °C
Ice Present (Y/N)
Custody Seal (Y/N)
Date of Extraction

Turn Around Time: STD 1 Day 2 Day 3 Day Other