EBA Engineering Inc.
4813 Seton Drive
Baltimore, MD 21215

o 410.358.7171
f 410.358.7213
w www.ebaengineering.com

June 16, 2014

Ms. Susan Bull
Maryland Department of the Environment
Oil Control Program
1800 Washington Boulevard, Suite 620
Baltimore, MD 21230

Subject: Chester River Hospital Center – Monthly Monitoring Report for May 2014

Reference: MDE Case No. 87-2534-KE
MDE Facility ID No. 3168
EBA Engineering Inc. Project No. 4070-00

Dear Ms. Bull:

On behalf of Chester River Hospital Center (CRHC), EBA Engineering Inc. (EBA) is pleased to submit this monthly monitoring report for period of May 1st through May 31st. EBA has reviewed the site data collected by BrightFields, Inc. and laboratory results performed by Phase Separation Science Inc. (PSS). Historically, Earth Data Inc. was responsible for collecting site data and operating the pump and treat groundwater containment/recovery system. As of May 1st, these responsibilities were successfully transitioned to BrightFields, Inc." A summary of these activities are presented below.

- Gauging of all monitoring and recovery wells.
- Sampling of 11 targeted monitoring wells (MW-15, MW-16, MW-19, MW-20, MW-24, MW-33, MW-34, MW-35, MW48, MW-49, and MW-50) for the presence of Total Petroleum Hydrocarbons - Diesel Range Organics (TPH-DRO) using EPA Method 8015.

Based upon the field data collected and results of the laboratory analysis, we offer the following attachments for your review:

- Table 1 – Groundwater Monitoring Wells & Recovery Wells – Historic Data Summary
- Figure 1 – Water Table Contour Map
- Figure 2 – Water Quality Map of TPH-DRO
- Appendix A – Laboratory Analytical Reports
- Appendix B – Well Gauging & Field Reports

Groundwater monitoring well data for all monitoring and recovery wells is included in **Table 1**. The table includes gauging and analytical data since June 2012.

Natural groundwater flow direction is towards the southeast and the Chester River. The water-table contour maps, **Figure 1**, shows a depression in the upper parking lot (source area) created by groundwater recovery/containment system.

The results of laboratory analyses show detectable levels of TPH-DRO are present at one of the eleven targeted wells (MW-20). A site map showing concentrations of TPH-DRO is included in **Figure 2**. Laboratory results are included in **Appendix A.**

None of the wells showed a measurable thickness (>0.01') of liquid phase hydrocarbons. MW-47 was inaccessible during this gauging event. Well gauging and field reports are included in **Appendix B**.

All of the above findings are consistent with the historical results since June 2012. Following the implementation of the Ivey-sol® process outlined in the Groundwater Remediation Action Plan, we anticipate a further reduction in the analytical concentrations leading towards case closure. The next monitoring event is scheduled for June 2014. Should you have any questions regarding this report, do not hesitate to call upon me at 410-504-6112.

Sincerely,

EBA ENGINEERING, INC.

James P. Sines, CHMM
Project Manager

Amar Sokhey, P.E., F.ASCE
Vice President

Attachments:

cc: Mr. Ken Kozel (Shore Regional Health)
Mr. Dane Bauer (Diversified Building Solutions, LLC)
Mr. Ken Hannon (BrightFields, Inc.)
Mayor Chris Cerino
Mr. Bill Ingersoll
Mr. Bob Sipes
Mr. Michael Forlini
Mr. Michael Powell, Esq. (Gordon-Fineblatt)

TABLE

Table 1 - Groundwater Monitoring Wells - Historic Data Summary
Chester River Hospital Center
100 Brown Street
Chestertown, MD 21620

Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**NA**
MW-1	5-Jun-12	57.05	47.38	9.67	<1	<1	<1	<2	<2	<1	**3.1**	NS	<1
	6-Sep-12	57.05	46.01	11.04	<1	<1	<1	<2	<2	<1	**16**	NS	<1
	4-Dec-12	57.05	46.12	10.93	<1	<1	<1	<2	<2	<1	**11**	<0.1	<1
	4-Mar-13	57.05	45.95	11.1	<1	<1	<1	<2	<2	<1	**1.5**	<0.1	<1
	4-Jun-13	57.05	45.7	11.35	<1	<1	<1	<2	<2	<1	**3**	<0.1	<1
	30-Jan-14	57.05	47.96	9.09	<1	<1	<1	<2	<2	<1	**62**	NS	<1
	28-Apr-14	57.05	47.6	9.45	<1	<1	<1	<2	<2	<1	**5.4**	NS	<1

NS - Not Sampled

Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**NA**
MW-2	12-Jun-12	56.37	46.94	9.43	<1	<1	<1	<2	<2	<1	**6.6**	NS	1.2
	6-Sep-12	56.37	45.45	10.92	<1	<1	<1	<2	<2	<1	**7.7**	NS	<1
	4-Dec-12	56.37	45.55	10.82	<1	<1	<1	<2	<2	<1	**20**	<0.1	8
	4-Mar-13	56.37	45.36	11.01	<1	<1	<1	<2	<2	<1	**28**	0.44	5.9
	4-Jun-13	56.37	45.12	11.25	<1	<1	<1	<2	<2	<1	**15**	<0.1	<1
	30-Jan-14	56.37	47.47	8.9	<1	<1	<1	<2	<2	<1	**21**	NS	4.6
	28-Apr-14	56.37	47.15	9.22	<1	<1	<1	<2	<2	<1	**12**	NS	2.2

NS - Not Sampled

Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**NA**
MW-3	5-Jun-12	50.55	41.82	8.73	<1	<1	<1	<2	<2	<1	**100**	NS	4.1
	6-Sep-12	50.55	39.87	10.68	<1	<1	<1	<2	<2	<1	**0.61**	NS	2.7
	4-Dec-12	50.55	39.92	10.63	<1	<1	<1	<1	<1	<1	**2.6**	<0.1	2.8
	4-Mar-13	50.55	39.75	10.8	<1	<1	<1	<1	<1	<1	**0.48**	<0.1	2.5
	4-Jun-13	50.55	39.5	11.05	<1	<1	<1	<2	<2	<1	**0.34**	<0.1	<1
	30-Jan-14	50.55	42	8.55	<1	<1	<1	<2	<2	<1	**12**	NS	2.3
	28-Apr-14	50.55	41.9	8.65	<1	<1	<1	<2	<2	<1	**2.2**	NS	1.4

NS - Not Sampled

Table 1 - Groundwater Monitoring Wells - Historic Data Summary
Chester River Hospital Center
100 Brown Street
Chestertown, MD 21620

Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**NA**
MW-4	5-Jun-12	53.4	44.1	9.3	<1	<1	<1	<2	<2	<1	0.1	NS	<1
	5-Sep-12	53.4	42.55	10.85	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	4-Dec-12	53.4	42.64	10.76	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	4-Mar-13	53.4	42.47	10.93	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	4-Jun-13	53.4	42.22	11.18	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	30-Jan-14	53.4	44.51	8.89	<1	<1	<1	<2	<2	<1	**11**	NS	<1
	28-Apr-14	53.4	44.23	9.17	<1	<1	<1	<2	<2	<1	<0.1	NS	<1

NS - Not Sampled

Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**NA**
MW-5	5-Jun-12	61.08	51.42	9.66	<1	<1	<1	<2	<2	<1	**1.2**	NS	<1
	6-Sep-12	61.08	50.01	11.07	<1	<1	<1	<2	<2	<1	**1.9**	NS	<1
	4-Dec-12	61.08	50.12	10.96	<1	<1	<1	<2	<2	<1	**0.38**	<0.1	<1
	4-Mar-13	61.08	49.93	11.15	<1	<1	<1	<2	<2	<1	**1.5**	<0.1	<1
	4-Jun-13	61.08	49.68	11.4	<1	<1	<1	<2	<2	<1	**1.6**	<01	<1
	30-Jan-14	61.08	51.93	9.15	<1	<1	<1	<2	<2	<1	**36**	NS	<1
	28-Apr-14	61.08	51.62	9.46	<1	<1	<1	<2	<2	<1	**3.2**	NS	<1

NS - Not Sampled

Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**NA**
MW-9	6-Jun-12	46.95	40.41	6.54	1.1	<1	<1	<2	1.1e	<1	**3.7**	NS	4.4
	6-Sep-12	46.95	36.99	9.96	<1	<1	<1	<2	<2	<1	**1.1**	NS	<1
	4-Dec-12	46.1	36.18	9.92	<1	<1	<1	<2	<2	<1	**0.64**	<0.1	<1
	4-Mar-13	46.1	35.98	10.12	<1	<1	<1	<2	<2	<1	**0.47**	<0.1	<1
	4-Jun-13	46.1	35.72	10.38	<1	<1	<1	<2	<2	<1	**0.6**	<0.1	<1
	30-Jan-14	46.1	39.47	6.63	<1	<1	<1	<2	<2	<1	**5.9**	NS	1.5
	28-Apr-14	46.1	39.55	6.55	1.7	<1	1.7	<2	1.7	<1	**0.89**	NS	3.2

NS - Not Sampled

Table 1 - Groundwater Monitoring Wells - Historic Data Summary
Chester River Hospital Center
100 Brown Street
Chestertown, MD 21620

Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**NA**
MW-10R	4-Dec-12	48.81	36.9	11.91	<1	<1	<1	<2	<2	<1	**0.15**	<0.1	<1
	4-Mar-13	48.81	38.62	10.19	<1	<1	<1	<2	<2	<1	**0.15**	<0.1	<1
	3-Jun-13	48.7	38.23	10.47	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	30-Jan-14	48.7	41.86	6.84	<1	<1	<1	<2	<2	<1	**11**	NS	<1
	28-Apr-14	48.7	41.49	7.21	<1	<1	<1	<2	<2	<1	<0.1	NS	1.3

NS - Not Sampled

Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**NA**
MW-11	5-Jun-12	41.49	33.85	7.64	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	5-Sep-12	41.49	31.97	9.52	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	4-Dec-12	41.49	31.98	9.51	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	4-Mar-13	41.49	31.76	9.73	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	4-Jun-13	41.49	31.52	9.97	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	30-Jan-14	41.49	34.86	6.63	<1	<1	<1	<2	<2	<1	**12**	NS	<1
	28-Apr-14	41.49	34.28	7.21	<1	<1	<1	<2	<2	<1	<0.1	NS	<1

NS - Not Sampled

Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**NA**
MW-12	5-Jun-12	44.46	36.85	7.61	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	5-Sep-12	44.46	34.52	9.94	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	4-Dec-12	44.46	34.53	9.93	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	4-Mar-13	44.46	34.35	10.11	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	4-Jun-13	44.46	34.08	10.38	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	1-Feb-14	44.46	37	7.46	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	28-Apr-14	44.46	36.68	7.78	<1	<1	<1	<2	<2	<1	<0.1	NS	<1

NS - Not Sampled

Table 1 - Groundwater Monitoring Wells - Historic Data Summary
Chester River Hospital Center
100 Brown Street
Chestertown, MD 21620

Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**NA**
MW-13	6-Jun-12	41.7	34.94	6.76	<1	<1	<1	<2	<2	<1	**3.8**	NS	1.2
	6-Sep-12	41.7	32.43	9.27	<1	<1	<1	<2	<2	<1	**0.86**	NS	1.1
	4-Dec-12	41.7	32.41	9.29	<1	<1	<1	<2	<2	<1	**1**	<0.1	<1
	4-Mar-13	41.7	32.21	9.49	<1	<1	<1	<2	<2	<1	**9.5**	<0.1	<1
	4-Jun-13	41.7	31.92	9.78	<1	<1	<1	<2	<2	<1	**33**	<0.1	<1
	30-Jan-14	41.7	36.15	5.55	<1	<1	<1	<2	<2	<1	**7.7**	NS	<1
	28-Apr-14	41.7	35.67	6.03	<1	<1	<1	<2	<2	<1	**0.35**	NS	<1

NS - Not Sampled

Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**NA**
MW-14	6-Jun-12	41.38	35.44	5.94	1.2	<1	19	3.1	24.3	<1	**17**	NS	210
	6-Sep-12	41.38	32.04	9.34	<1	<1	<1	<2	<2	<1	**180**	NS	6.3
	4-Dec-12	41.38	32.04	9.34	**6.2**	<1	31	104	141.2	<1	**9700**	4.7	250
	4-Mar-13	41.38	31.81	9.57	<1	<1	5.2	<2	5.2	<1	**92**	0.24	40
	4-Jun-13	41.38	31.32	10.06	<1	<1	<1	<2	<2	<1	**410**	<0.1	3.6
	30-Jan-14	41.38	36.74	4.64	2.9	<1	40	8	<2	<1	**21**	NS	110
	28-Apr-14	41.38	36.33	5.05	2.5	<1	39	9.3	50.8	<1	**1.5**	NS	110

NS - Not Sampled

Table 1 - Groundwater Monitoring Wells - Historic Data Summary
Chester River Hospital Center
100 Brown Street
Chestertown, MD 21620

Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**NA**
MW-15	5-Jun-12	35.01	27.73	7.28	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	5-Sep-12	35.01	26.7	8.31	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	1-Oct-12	35.01	26.79	8.22	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	5-Nov-12	35.01	26.82	8.19	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	4-Dec-12	35.01	26.63	8.38	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	4-Mar-13	35.01	26.35	8.66	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	6-May-13	35.01	26.2	8.81	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	4-Jun-13	35.01	26.14	8.87	<1	<1	<1	<2	<2	<1	**1.5**	<0.1	<1
	17-Jun-13	35.01	26.7	8.31	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	24-Jul-13	35.01	27.97	7.04	NS	NS	NS	NS	NS	NS	**0.11**	NS	NS
	21-Aug-13	35.01	28.22	6.79	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	24-Sep-13	35.01	28.45	6.56	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	21-Oct-13	35.01	28.28	6.73	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	22-Nov-13	35.01	28.27	6.74	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	18-Dec-13	35.01	28.42	6.59	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	30-Jan-14	35.01	28.78	6.23	<1	<1	<1	<2	<2	<1	**0.2**	NS	67
	24-Feb-14	35.01	28.5	6.51	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	24-Mar-14	35.01	28.21	6.8	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	28-Apr-14	35.01	27.83	7.18	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	20-May-14	35.01	27.56	7.45	NS	NS	NS	NS	NS	NS	<0.1	NS	NS

NS - Not Sampled

Table 1 - Groundwater Monitoring Wells - Historic Data Summary
Chester River Hospital Center
100 Brown Street
Chestertown, MD 21620

Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**NA**
MW-16	5-Jun-12	35.55	28.70	6.85	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	5-Sep-12	35.55	27.27	8.28	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	1-Oct-12	35.55	27.35	8.20	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	5-Nov-12	35.55	27.40	8.15	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	4-Dec-12	35.55	27.19	8.36	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	7-Jan-13	35.55	27.10	8.45	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	5-Feb-13	35.55	26.95	8.60	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	4-Mar-13	35.55	26.92	8.63	<1	<1	<1	<2	<2	<1	**0.18**	<0.1	<1
	8-Apr-13	35.55	26.84	8.71	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	6-May-13	35.55	26.77	8.78	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	4-Jun-13	35.55	26.71	8.84	<1	<1	<1	<2	<2	<1	**0.13**	<0.1	<1
	17-Jun-13	35.55	27.48	8.07	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	24-Jul-13	35.55	28.99	6.56	NS	NS	NS	NS	NS	NS	**0.21**	NS	NS
	21-Aug-13	35.55	29.27	6.28	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	24-Sep-13	35.55	29.50	6.05	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	21-Oct-13	35.55	29.17	6.38	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	18-Nov-13	35.55	29.16	6.39	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	18-Dec-13	35.55	29.37	6.18	NS	NS	NS	NS	NS	NS	**0.19**	NS	NS
	30-Jan-14	35.55	29.62	5.93	<1	<1	<1	<2	<2	<1	**0.24**	NS	<1
	24-Feb-14	35.55	29.35	6.20	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	24-Mar-14	35.55	29.24	6.31	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	28-Apr-14	35.55	28.79	6.76	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	20-May-14	35.55	28.53	7.02	NS	NS	NS	NS	NS	NS	<0.1	NS	NS

NS - Not Sampled

Table 1 - Groundwater Monitoring Wells - Historic Data Summary
Chester River Hospital Center
100 Brown Street
Chestertown, MD 21620

Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**NA**
MW-17	5-Jun-12	35.49	27.72	7.77	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	5-Sep-12	35.49	27.16	8.33	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	4-Dec-12	35.49	27.1	8.39	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	4-Mar-13	35.49	26.81	8.68	<1	<1	<1	<2	<2	<1	**1**	<0.1	<1
	4-Jun-13	35.49	26.59	8.9	<1	<1	<1	<2	<2	1.1	<0.1	<0.1	<1
	1-Feb-14	35.49	28.95	6.54	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	28-Apr-14	35.49	27.95	7.54	<1	<1	<1	<2	<2	<1	<0.1	NS	<1

NS - Not Sampled

Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**NA**
MW-18	5-Jun-12	35.82	28.73	7.09	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	5-Sep-12	35.82	28.34	7.48	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	4-Dec-12	35.82	28.3	7.52	<1	<1	<1	<2	<2	<1	**0.23**	<0.1	<1
	4-Mar-13	35.82	27.98	7.84	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	4-Jun-13	35.82	27.79	8.03	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	30-Jan-14	35.82	30.05	5.77	<1	<1	<1	<2	<2	<1	**0.13**	NS	<1
	28-Apr-14	35.82	28.83	6.99	<1	<1	<1	<2	<2	<1	<0.1	NS	<1

NS - Not Sampled

Table 1 - Groundwater Monitoring Wells - Historic Data Summary
Chester River Hospital Center
100 Brown Street
Chestertown, MD 21620

Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**NA**
MW-19	5-Jun-12	38.85	32.60	6.25	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	5-Sep-12	38.85	29.91	8.94	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	1-Oct-12	38.85	30.00	8.85	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	5-Nov-12	38.85	30.07	8.78	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	4-Dec-12	38.85	29.89	8.96	<1	<1	<1	<2	<2	<1	**0.86**	<0.1	<1
	7-Jan-13	38.85	29.82	9.03	<1	<1	<1	<2	<2	<1	<0.1	<0.1	5.1
	5-Feb-13	38.85	29.67	9.18	<1	<1	<1	<2	<2	<1	**0.17**	<0.1	<1
	4-Mar-13	38.85	29.65	9.20	<1	<1	<1	<2	<2	<1	**0.13**	<0.1	1
	8-Apr-13	38.85	29.55	9.30	<1	<1	<1	<2	<2	<1	**1.3**	<0.1	<1
	6-May-13	38.85	29.47	9.38	<1	<1	<1	<2	<2	<1	**0.13**	<0.1	<1
	4-Jun-13	38.85	29.41	9.44	<1	<1	<1	<2	<2	<1	**0.36**	<0.1	<1
	17-Jun-13	38.85	30.97	7.88	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	24-Jul-13	38.85	32.96	5.89	NS	NS	NS	NS	NS	NS	**0.14**	NS	NS
	21-Aug-13	38.85	33.33	5.52	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	24-Sep-13	38.85	33.51	5.34	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	21-Oct-13	38.85	32.85	6.00	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	18-Nov-13	38.85	32.99	5.86	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	18-Dec-13	38.85	33.23	5.62	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	30-Jan-14	38.85	33.23	5.62	<1	<1	<1	<2	<2	<1	**0.12**	NS	<1
	2/24/2014	38.85	32.97	5.88	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	3/24/2014	38.85	33.06	5.79	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	28-Apr-14	38.85	32.65	6.20	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	20-May-14	38.85	32.33	6.52	NS	NS	NS	NS	NS	NS	<0.1	NS	NS

NS - Not Sampled

Table 1 - Groundwater Monitoring Wells - Historic Data Summary
Chester River Hospital Center
100 Brown Street
Chestertown, MD 21620

Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**NA**
MW-20	5-Jun-12	38.72	32.63	6.09	<1	<1	<1	<2	<2	<1	**1.3**	NS	<1
	27-Jul-12	38.72	30.11	8.61	<1	<1	<1	<2	<2	<1	**1.9**	NS	<1
	5-Sep-12	38.72	29.74	8.98	<1	<1	<1	<2	<2	<1	**1.8**	NS	<1
	1-Oct-12	38.72	29.84	8.88	<1	<1	<1	<2	<2	<1	**4**	<0.1	<1
	5-Nov-12	38.72	29.92	8.80	<1	<1	<1	<2	<2	<1	**2.5**	<0.1	<1
	4-Dec-12	38.72	29.72	9.00	<1	<1	<1	<2	<2	<1	**1.9**	<0.1	<1
	7-Jan-13	38.72	29.68	9.04	<1	<1	<1	<2	<2	<1	**0.68**	<0.1	2.2
	5-Feb-13	38.72	29.57	9.15	<1	<1	<1	<2	<2	<1	**0.95**	<0.1	<1
	4-Mar-13	38.72	29.49	9.23	<1	<1	<1	<2	<2	<1	**2.2**	<0.1	<1
	8-Apr-13	38.72	29.40	9.32	<1	<1	<1	<2	<2	<1	**1**	<0.1	<1
	6-May-13	38.72	29.31	9.41	<1	<1	<1	<2	<2	<1	**1.8**	<0.1	<1
	4-Jun-13	38.72	29.24	9.48	<1	<1	<1	<2	<2	<1	**1.6**	<0.1	<1
	17-Jun-13	38.72	31.08	7.64	NS	NS	NS	NS	NS	NS	**1.9**	NS	NS
	24-Jul-13	38.72	32.96	5.76	NS	NS	NS	NS	NS	NS	**2.2**	NS	NS
	21-Aug-13	38.72	33.33	5.39	NS	NS	NS	NS	NS	NS	**2**	NS	NS
	24-Sep-13	38.72	33.51	5.21	NS	NS	NS	NS	NS	NS	**1.1**	NS	NS
	21-Oct-13	38.72	32.91	5.81	NS	NS	NS	NS	NS	NS	**2.4**	NS	NS
	18-Nov-13	38.72	33.00	5.72	NS	NS	NS	NS	NS	NS	**2.8**	NS	NS
	18-Dec-13	38.72	33.26	5.46	NS	NS	NS	NS	NS	NS	**2.4**	NS	NS
	30-Jan-14	38.72	33.29	5.43	<1	<1	<1	<2	<2	<1	**5.7**	NS	<1
	24-Feb-14	38.72	33.06	5.66	NS	NS	NS	NS	NS	NS	**0.58**	NS	NS
	24-Mar-14	38.72	33.13	5.59	NS	NS	NS	NS	NS	NS	**4.4**	NS	NS
	28-Apr-14	38.72	32.71	6.01	<1	<1	<1	<2	<2	<1	**0.70**	NS	<1
	20-May-14	38.72	32.42	6.30	NS	NS	NS	NS	NS	NS	**0.74**	NS	NS

NS - Not Sampled

Table 1 - Groundwater Monitoring Wells - Historic Data Summary
Chester River Hospital Center
100 Brown Street
Chestertown, MD 21620

Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**NA**
MW-21	5-Jun-12	38.55	31.26	7.29	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	5-Sep-12	38.55	29.61	8.94	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	4-Dec-12	38.55	29.56	8.99	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	4-Mar-13	38.55	29.33	9.22	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	4-Jun-13	38.55	29.09	9.46	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	1-Feb-14	38.55	31.22	7.33	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	28-Apr-14	38.55	31.63	6.92	<1	<1	<1	<2	<2	<1	<0.1	NS	<1

NS - Not Sampled

Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**NA**
MW-22	5-Sep-12	45.75	35.84	9.91	<1	<1	<1	<2	<2	<1	**41**	NS	1.7
	5-Dec-12	45.75	35.88	9.87	<1	<1	<1	<2	<2	<1	**200**	**0.45**	<1
	4-Mar-13	47.04	36.95	10.09	<1	<1	<1	<2	<2	<1	**4.5**	**0.26**	1.3
	4-Jun-13	47.04	36.77	10.27	<1	<1	<1	<2	<2	<1	**44**	<0.1	<1
	30-Jan-14	47.04	44.14	2.9	<1	<1	<1	<2	<2	<1	**0.16**	NS	1.3
	28-Apr-14	47.04	43.72	3.32	<1	<1	<1	<2	<2	<1	**0.19**	NS	<1

NS - Not Sampled

Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**NA**
MW-23	5-Jun-12	35.95	28.98	6.97	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	5-Sep-12	35.95	28.55	7.4	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	4-Dec-12	35.95	28.4	7.55	<1	<1	<1	<2	<2	<1	11	<0.1	<1
	4-Mar-13	35.95	28.1	7.85	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	4-Jun-13	35.95	27.92	8.03	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	30-Jan-14	35.95	30.23	5.72	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	28-Apr-14	35.95	29.1	6.85	<1	<1	<1	<2	<2	<1	<0.1	NS	<1

NS - Not Sampled

Table 1 - Groundwater Monitoring Wells - Historic Data Summary
Chester River Hospital Center
100 Brown Street
Chestertown, MD 21620

Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**NA**
MW-24	5-Jun-12	36.56	29.65	6.91	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	5-Sep-12	36.56	28.35	8.21	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	1-Oct-12	36.56	28.41	8.15	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	5-Nov-12	36.56	28.48	8.08	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	4-Dec-12	36.56	28.28	8.28	<1	<1	<1	<2	<2	<1	**0.25**	<0.1	<1
	7-Jan-13	36.56	28.16	8.40	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	5-Feb-13	36.56	28.03	8.53	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	4-Mar-13	36.56	27.99	8.57	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	8-Apr-13	36.56	27.91	8.65	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	6-May-13	36.56	27.86	8.70	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	4-Jun-13	36.56	27.80	8.76	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	17-Jun-13	36.56	28.48	8.08	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	24-Jul-13	36.56	29.96	6.60	NS	NS	NS	NS	NS	NS	**0.11**	NS	NS
	21-Aug-13	36.56	30.24	6.32	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	24-Sep-13	36.56	30.46	6.10	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	21-Oct-13	36.56	30.14	6.42	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	18-Nov-13	36.56	30.12	6.44	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	18-Dec-13	36.56	30.30	6.26	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	30-Jan-14	36.56	30.57	5.99	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	24-Feb-14	36.56	30.29	6.27	NS	NS	NS	NS	NS	NS	**0.17**	NS	NS
	24-Mar-14	36.56	30.19	6.37	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	28-Apr-14	36.56	29.73	6.83	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	20-May-14	36.56	29.47	7.09	NS	NS	NS	NS	NS	NS	<0.1	NS	NS

NS - Not Sampled

Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**NA**
MW-25	5-Jun-12	36.1	28.76	7.34	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	5-Sep-12	36.1	28.18	7.92	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	4-Dec-12	36.1	28.08	8.02	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	4-Mar-13	36.1	27.78	8.32	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	4-Jun-13	36.1	27.57	8.53	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	30-Jan-14	36.1	30.04	6.06	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	28-Apr-14	36.1	28.94	7.16	<1	<1	<1	<2	<2	<1	**0.33**	NS	<1

NS - Not Sampled

EBA ENGINEERING

Table 1 - Groundwater Monitoring Wells - Historic Data Summary
Chester River Hospital Center
100 Brown Street
Chestertown, MD 21620

Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**NA**
MW-28	5-Jun-12	35.9	28.28	7.62	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	5-Sep-12	35.9	28.2	7.7	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	4-Dec-12	35.9	28.02	7.88	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	4-Mar-13	35.9	27.73	8.17	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	4-Jun-13	35.9	27.52	8.38	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	30-Jan-14	35.9	29.64	6.26	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	28-Apr-14	35.9	28.32	7.58	<1	<1	<1	<2	<2	<1	<0.1	NS	<1

NS - Not Sampled

Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**NA**
MW-29	5-Jun-12	35.15	28.18	6.97	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	5-Sep-12	35.15	28.16	6.99	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	4-Dec-12	35.15	27.96	7.19	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	4-Mar-13	35.15	27.68	7.47	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	4-Jun-13	35.15	27.46	7.69	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	30-Jan-14	35.15	29.57	5.58	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	28-Apr-14	35.15	28.2	6.95	<1	<1	<1	<2	<2	<1	<0.1	NS	<1

NS - Not Sampled

Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**NA**
MW-31R	4-Dec-12	47.4	36.19	11.21	<1	<1	<1	<2	<2	<1	**0.45**	<0.1	<1
	4-Mar-13	47.4	37.16	10.24	<1	<1	<1	<2	<2	1.1	<0.1	<0.1	<1
	3-Jun-13	47.4	36.92	10.48	<1	<1	<1	<2	<2	4.1	<0.1	<0.1	<1
	30-Jan-14	47.4	39.89	7.51	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	28-Apr-14	47.4	39.4	8	<1	<1	<1	<2	<2	<1	<0.1	NS	<1

NS - Not Sampled

Table 1 - Groundwater Monitoring Wells - Historic Data Summary
Chester River Hospital Center
100 Brown Street
Chestertown, MD 21620

Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**NA**
MW-32	5-Jun-12	44.6	37.08	7.52	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	5-Sep-12	44.6	34.84	9.76	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	4-Dec-12	44.6	34.89	9.71	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	4-Mar-13	47.41	37.39	10.02	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	4-Jun-13	47.41	37.15	10.26	<1	<1	<1	<2	<2	1.1	<0.1	<0.1	<1
	30-Jan-14	47.41	40.65	6.76	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	28-Apr-14	47.41	41.6	5.81	<1	<1	<1	<2	<2	<1	<0.1	NS	<1

NS - Not Sampled

Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**NA**
MW-33	5-Jun-12	36.52	29.89	6.63	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	5-Sep-12	36.52	27.85	8.67	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	1-Oct-12	36.52	27.94	8.58	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	5-Nov-12	36.52	27.99	8.53	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	4-Dec-12	36.52	27.80	8.72	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	7-Jan-13	36.52	27.73	8.79	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	5-Feb-13	36.52	27.56	8.96	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	4-Mar-13	36.52	27.54	8.98	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	8-Apr-13	36.52	27.46	9.06	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	4-Jun-13	36.52	27.32	9.20	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	17-Jun-13	36.52	28.47	8.05	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	24-Jul-13	36.52	30.24	6.28	NS	NS	NS	NS	NS	NS	**0.31**	NS	NS
	21-Aug-13	36.52	30.55	5.97	NS	NS	NS	NS	NS	NS	**0.25**	NS	NS
	24-Sep-13	36.52	30.76	5.76	NS	NS	NS	NS	NS	NS	**0.17**	NS	NS
	21-Oct-13	36.52	30.28	6.24	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	18-Nov-13	36.52	30.33	6.19	NS	NS	NS	NS	NS	NS	**0.24**	NS	NS
	18-Dec-13	36.52	30.54	5.98	NS	NS	NS	NS	NS	NS	**0.3**	NS	NS
	30-Jan-14	36.52	30.69	5.83	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	24-Feb-14	36.52	30.41	6.11	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	24-Mar-14	36.52	30.42	6.10	NS	NS	NS	NS	NS	NS	**0.13**	NS	NS
	28-Apr-14	36.52	29.98	6.54	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	20-May-14	36.52	29.69	6.84	NS	NS	NS	NS	NS	NS	<0.1	NS	NS

NS - Not Sampled

Table 1 - Groundwater Monitoring Wells - Historic Data Summary
Chester River Hospital Center
100 Brown Street
Chestertown, MD 21620

Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**NA**
MW-34	5-Jun-12	36.64	29.99	6.65	<1	<1	<1	<2	<2	<1	**0.14**	NS	<1
	27-Jul-12	36.64	28.32	8.32	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	5-Sep-12	36.64	27.99	8.65	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	1-Oct-12	36.64	28.08	8.56	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	5-Nov-12	36.64	28.14	8.50	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	4-Dec-12	36.64	27.95	8.69	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	7-Jan-13	36.64	27.86	8.78	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	5-Feb-13	36.64	27.71	8.93	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	4-Mar-13	36.64	27.68	8.96	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	8-Apr-13	36.64	27.61	9.03	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	6-May-13	36.64	27.53	9.11	<1	<1	<1	<2	<2	<1	**0.11**	<0.1	<1
	4-Jun-13	36.64	27.46	9.18	<1	<1	<1	<2	<2	<1	**0.25**	<0.1	<1
	17-Jun-13	36.64	28.62	8.02	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	24-Jul-13	36.64	30.30	6.34	NS	NS	NS	NS	NS	NS	**0.13**	NS	NS
	21-Aug-13	36.64	30.60	6.04	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	24-Sep-13	36.64	30.81	5.83	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	21-Oct-13	36.64	30.40	6.24	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	18-Nov-13	36.64	30.42	6.22	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	18-Dec-13	36.64	30.64	6.00	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	30-Jan-14	36.64	30.82	5.82	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	24-Feb-14	36.64	30.55	6.09	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	24-Mar-14	36.64	30.51	6.13	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	28-Apr-14	36.64	30.05	6.59	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	20-May-14	36.64	29.81	6.83	NS	NS	NS	NS	NS	NS	<0.1	NS	NS

NS - Not Sampled

Table 1 - Groundwater Monitoring Wells - Historic Data Summary
Chester River Hospital Center
100 Brown Street
Chestertown, MD 21620

Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**NA**
MW-35	5-Jun-12	38.62	31.79	6.83	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	5-Sep-12	38.62	29.63	8.99	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	1-Oct-12	38.62	29.70	8.92	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	5-Nov-12	38.62	29.72	8.90	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	4-Dec-12	38.62	29.60	9.02	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	7-Jan-13	38.62	29.55	9.07	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	5-Feb-13	38.62	29.38	9.24	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	4-Mar-13	38.62	29.33	9.29	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	8-Apr-13	38.62	29.28	9.34	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	6-May-13	38.62	29.22	9.40	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	4-Jun-13	38.62	29.15	9.47	<1	<1	<1	<2	<2	<1	**0.16**	<0.1	<1
	17-Jun-13	38.62	30.35	8.27	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	24-Jul-13	38.62	32.11	6.51	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	21-Aug-13	38.62	32.42	6.20	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	24-Sep-13	38.62	32.62	6.00	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	21-Oct-13	38.62	32.23	6.39	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	18-Nov-13	38.62	32.24	6.38	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	18-Dec-13	38.62	32.48	6.14	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	30-Jan-14	38.62	32.61	6.01	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	24-Feb-14	38.62	32.38	6.24	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	24-Mar-14	38.62	32.35	6.27	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	28-Apr-14	38.62	31.93	6.69	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	20-May-14	38.62	31.67	6.95	NS	NS	NS	NS	NS	NS	<0.1	NS	NS

NS - Not Sampled

Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**NA**
MW-37	5-Jun-12	50.54	41.64	8.9	<1	<1	<1	<2	<2	<1	**22**	NS	3.9
	6-Sep-12	50.54	39.81	10.73	<1	2.9	1.7	<2	4.6	<1	**100**	NS	17
	4-Dec-12	50.54	39.89	10.65	<1	<1	<1	<2	<2	<1	**27**	<0.1	6.1
	4-Mar-13	50.54	39.7	10.84	<1	<1	<1	<2	<2	<1	**67**	**0.47**	7.4
	4-Jun-13	50.54	39.45	11.09	<1	<1	<1	<2	<2	<1	**12**	<0.1	3.9
	30-Jan-14	50.54	41.97	8.57	<1	<1	<1	<2	<2	<1	**46**	NS	2.1
	28-Apr-14	50.54	41.79	8.75	<1	<1	<1	<2	<2	<1	**8.8**	NS	5.8

NS - Not Sampled

Table 1 - Groundwater Monitoring Wells - Historic Data Summary
Chester River Hospital Center
100 Brown Street
Chestertown, MD 21620

Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**NA**
MW-40	6-Jun-12	46.85	39.96	6.89	<1	<1	<1	<2	<2	<1	**12**	NS	<1
	6-Sep-12	46.85	36.79	10.06	<1	<1	<1	1.1e	1.1e	<1	**26**	NS	1.5
	4-Dec-12	46.85	36.84	10.01	<1	<1	<1	1.2e	1.2e	<1	**190**	<0.1	2.1
	4-Mar-13	48.98	38.66	10.32	<1	<1	<1	<2	<2	<1	**21**	<0.1	1.5
	4-Jun-13	48.69	38.22	10.47	<1	<1	<1	1.9e	1.9e	<1	**76**	**0.19**	3.3
	30-Jan-14	48.69	42.48	6.21	<1	<1	<1	<2	<2	<1	**5.9**	NS	<1
	28-Apr-14	48.69	42	6.69	<1	<1	<1	<2	<2	<1	<0.1	NS	<1

NS - Not Sampled

Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**NA**
MW-41	6-Jun-12	42.92	36.62	6.3	<1	<1	3.4	12	15.4	<1	**92**	NS	46
	6-Sep-12	42.92	33.31	9.61	<1	<1	1.2	5.1	7.2	<1	**23**	NS	24
	4-Dec-12	42.92	33.29	9.63	<1	<1	9	20	29	<1	**190**	1.7	82
	4-Mar-13	42.92	33.06	9.86	<1	<1	2.5	5.6	8.1	<1	**63**	**0.15**	23
	4-Jun-13	42.92	32.81	10.11	<1	<1	1.7	6.9	8.6	<1	**410**	**0.35**	14
	30-Jan-14	42.92	37.41	5.51	<1	<1	3.6	6.2	<2	<1	**76**	NS	30
	28-Apr-14	42.92	37.18	5.74	<1	<1	<1	<2	<2	<1	**0.53**	NS	5.2

NS - Not Sampled

Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**NA**
MW-42	6-Jun-12	47.04	40.48	6.56	<1	<1	1.2	<2	1.2e	<1	**110**	NS	16
	6-Sep-12	47.04	37.06	9.98	<1	<1	<1	<2	<2	<1	**98**	NS	6.5
	4-Dec-12	46.15	36.17	9.98	<1	<1	<1	<2	<2	<1	**160**	<0.1	2.6
	4-Mar-13	46.15	36	10.15	<1	<1	<1	<2	<2	<1	**87**	<0.1	2.8
	4-Jun-13	46.15	35.72	10.43	<1	<1	<1	<2	<2	<1	**55**	<0.1	6.1
	30-Jan-14	46.15	39.32	6.83	<1	<1	<1	<2	<2	<1	**0.47**	NS	1.3
	28-Apr-14	46.15	39.43	6.72	<1	<1	<1	<2	<2	<1	**0.30**	NS	4.1

NS - Not Sampled

Table 1 - Groundwater Monitoring Wells - Historic Data Summary
Chester River Hospital Center
100 Brown Street
Chestertown, MD 21620

Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**NA**
MW-43	6-Jun-12	46.55	39.73	6.82	<1	<1	<1	<2	<2	<1	**0.21**	NS	<1
	6-Sep-12	46.55	36.62	9.93	<1	<1	<1	<2	<2	<1	**0.21**	NS	<1
	4-Dec-12	46.55	36.61	9.94	<1	<1	<1	<2	<2	<1	**0.22**	<0.1	<1
	4-Mar-13	48.03	37.92	10.11	<1	<1	<1	<2	<2	<1	**0.1**	<0.1	<1
	4-Jun-13	47.9	37.55	10.35	<1	<1	<1	<2	<2	<1	**0.23**	<0.1	1.4
	30-Jan-14	47.9	41.75	6.15	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	28-Apr-14	47.9	41.5	6.4	<1	<1	<1	<2	<2	<1	<0.1	NS	1.5

NS - Not Sampled

Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**NA**
MW-44	5-Jun-12	46.66	38.8	7.86	<1	<1	<1	<2	<2	<1	**0.46**	NS	<1
	5-Sep-12	46.66	36.77	9.89	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	4-Dec-12	46.66	36.79	9.87	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	4-Mar-13	47.46	37.26	10.2	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	3-Jun-13	47.2	36.9	10.3	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	30-Jan-14	47.2	40.2	7	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	28-Apr-14	47.2	39.74	7.46	<1	<1	<1	<2	<2	<1	<0.1	NS	<1

NS - Not Sampled

Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**NA**
MW-45	5-Jun-12	40.91	33.67	7.24	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	5-Sep-12	40.91	31.59	9.32	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	4-Dec-12	40.91	31.6	9.31	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	3-Jun-13	40.91	31.11	9.8	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	30-Jan-14	40.91	34.76	6.15	<1	<1	<1	<2	<2	<1	<0.1	NS	1.8
	28-Apr-14	40.91	34.22	6.69	<1	<1	<1	<2	<2	<1	<0.1	NS	<1

NS - Not Sampled

Table 1 - Groundwater Monitoring Wells - Historic Data Summary
Chester River Hospital Center
100 Brown Street
Chestertown, MD 21620

Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**NA**
MW-46	6-Jun-12	41.08	34.67	6.41	<1	<1	1.5	6.9	8.4	<1	**130**	NS	28
	6-Sep-12	41.08	31.78	9.3	<1	<1	1.5	12	13.5	<1	**9.4**	NS	28
	4-Dec-12	41.08	31.42	9.66	<1	<1	<1	2.3	2.3	<1	**170**	<0.1	6.5
	4-Mar-13	41.08	31.53	9.55	<1	<1	<1	3.6	3.6	<1	**100**	<0.1	6.5
	4-Jun-13	41.08	31.3	9.78	<1	<1	<1	1.8	1.8e	<1	**14**	<0.1	3.4
	30-Jan-14	41.08	36.2	4.88	<1	<1	<1	1.3	<2	<1	**1.5**	NS	3.3
	28-Apr-14	41.08	35.58	5.5	<1	<1	1.0	4.6	5.6	<1	**1.1**	NS	7.2

NS - Not Sampled

Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**NA**
MW-47	6-Jun-12	40.74	34.59	6.15	<1	<1	<1	2.2	2.2	<1	**99**	NS	8.5
	4-Dec-12	40.74	31.42	9.32	<1	<1	<1	<2	<2	<1	**180**	**0.11**	1.7
	4-Mar-13	40.74	31.17	9.57	1.9	<1	17	78.3	97.2	<1	**6500**	**14**	180

NS - Not Sampled

Table 1 - Groundwater Monitoring Wells - Historic Data Summary
Chester River Hospital Center
100 Brown Street
Chestertown, MD 21620

Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**NA**
MW-48	8-Apr-13	36.22	27.26	8.96	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	6-May-13	36.22	27.20	9.02	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	3-Jun-13	36.22	27.13	9.09	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	17-Jun-13	36.22	28.02	8.20	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	24-Jul-13	36.22	29.53	6.69	NS	NS	NS	NS	NS	NS	**0.11**	NS	NS
	21-Aug-13	36.22	29.77	6.45	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	24-Sep-13	36.22	30.00	6.22	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	21-Oct-13	36.22	29.71	6.51	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	18-Nov-13	36.22	29.68	6.54	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	18-Dec-13	36.22	29.90	6.32	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	30-Jan-14	36.22	30.15	6.07	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	24-Feb-14	36.22	29.91	6.31	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	24-Mar-14	36.22	29.75	6.47	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	28-Apr-14	36.22	29.34	6.88	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	20-May-14	36.22	29.07	7.15	NS	NS	NS	NS	NS	NS	<0.1	NS	NS

NS - Not Sampled

Table 1 - Groundwater Monitoring Wells - Historic Data Summary
Chester River Hospital Center
100 Brown Street
Chestertown, MD 21620

Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**NA**
MW-49	8-Apr-13	35.49	26.80	8.69	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	6-May-13	35.49	26.75	8.74	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	3-Jun-13	35.49	26.68	8.81	<1	<1	<1	<2	<2	<1	**0.32**	<0.1	<1
	17-Jun-13	35.49	27.37	8.12	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	24-Jul-13	35.49	28.72	6.77	NS	NS	NS	NS	NS	NS	**0.11**	NS	NS
	21-Aug-13	35.49	28.98	6.51	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	24-Sep-13	35.49	29.22	6.27	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	21-Oct-13	35.49	28.97	6.52	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	18-Nov-13	35.49	28.95	6.54	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	18-Dec-13	35.49	29.15	6.34	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	30-Jan-14	35.49	29.48	6.01	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	24-Feb-14	35.49	29.20	6.29	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	24-Mar-14	35.49	28.97	6.52	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	28-Apr-14	35.49	28.56	6.93	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	20-May-14	35.49	28.29	7.20	NS	NS	NS	NS	NS	NS	<0.1	NS	NS

NS - Not Sampled

Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**NA**
MW-50	8-Apr-13	35.64	26.86	8.78	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	6-May-13	35.64	26.81	8.83	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1
	3-Jun-13	35.64	26.74	8.90	<1	<1	<1	<2	<2	<1	**0.35**	<0.1	<1
	17-Jun-13	35.64	27.57	8.07	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	24-Jul-13	35.64	29.07	6.57	NS	NS	NS	NS	NS	NS	**0.14**	NS	NS
	21-Aug-13	35.64	29.33	6.31	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	24-Sep-13	35.64	29.55	6.09	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	21-Oct-13	35.64	29.25	6.39	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	18-Nov-13	35.64	29.25	6.39	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	18-Dec-13	35.64	29.43	6.21	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	30-Jan-14	35.64	29.70	5.94	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	24-Feb-14	35.64	29.43	6.21	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	24-Mar-14	35.64	29.25	6.39	NS	NS	NS	NS	NS	NS	<0.1	NS	NS
	28-Apr-14	35.64	28.87	6.77	<1	<1	<1	<2	<2	<1	<0.1	NS	<1
	20-May-14	35.64	28.59	7.05	NS	NS	NS	NS	NS	NS	<0.1	NS	NS

NS - Not Sampled

Table 1 - Groundwater Monitoring Wells - Historic Data Summary
Chester River Hospital Center
100 Brown Street
Chestertown, MD 21620

Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**NA**
RW-2D	4-Mar-13	40.54	30.95	9.59	<1	<1	<1	<2	<2	<1	**100**	<0.1	<1
	4-Jun-13	40.54	30.72	9.82	<1	<1	<1	<2	<2	<1	**23**	<0.1	<1
	30-Jan-14	40.54	43.23	-2.69	<1	<1	<1	<2	<2	<1	**17**	NS	<1
	28-Apr-14	40.54	43.7	-3.16	<1	<1	<1	<2	<2	<1	<0.1	NS	<1

NS - Not Sampled

Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**NA**
RW-3B	5-Sep-12	39.45	30.15	9.3	<1	<1	<1	<2	<2	<1	**280**	NS	4.1
	5-Dec-12	39.45	31.14	8.31	<1	<1	9.7	29.6	39.3	<1	**3000**	**0.66**	120
	4-Mar-13	39.45	29.94	9.5272	<1	<1	7.6	26.9	34.5	<1	**1100**	**24**	110
	30-Jan-14	39.45	40.72	-1.2356	<1	<1	<1	<2	<2	<1	**0.12**	NS	<1
	28-Apr-14	39.45	40.92	-1.4528	<1	<1	<1	<2	<2	<1	<0.1	NS	<1

NS - Not Sampled

Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**NA**
RW-4	5-Sep-12	45.69	35.65	10.04	<1	<1	<1	<2	<2	<1	**4.7**	NS	<1
	5-Dec-12	45.69	35.68	10.01	<1	<1	<1	2	2	<1	**3.5**	<0.1	35
	4-Mar-13	48.18	38.02	10.16	<1	<1	<1	<2	<2	<1	**1.7**	<0.1	<1
	4-Jun-13	48.18	37.77	10.41	<1	<1	<1	<2	<2	<1	**0.54**	<0.1	<1
	30-Jan-14	48.18	44.9	3.28	<1	<1	<1	<2	<2	<1	**0.14**	NS	1.1
	28-Apr-14	NS	NS	NS	<1	<1	<1	<2	<2	<1	<0.1	NS	<1

NS - Not Sampled

Table 1 - Groundwater Monitoring Wells - Historic Data Summary
Chester River Hospital Center
100 Brown Street
Chestertown, MD 21620

Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**NA**
RW-5	5-Sep-12	43.34	33.5	9.84	<1	<1	<1	<2	<2	<1	**26**	NS	<1
	5-Dec-12	43.34	33.52	9.82	<1	<1	<1	<2	<2	<1	**52a**	1.5	1.6
	4-Mar-13	43.34	33.3	10.04	<1	<1	<1	<2	<2	<1	**9.9**	<0.1	<1
	4-Jun-13	43.34	33.05	10.29	<1	<1	<1	<2	<2	<1	**40**	<0.1	<1
	30-Jan-14	43.34	41.75	1.59	<1	<1	<1	<2	<2	<1	**0.17**	NS	1
	28-Apr-14	43.34	42.33	1.01	<1	<1	<1	<2	<2	<1	<0.1	NS	<1

NS - Not Sampled

Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**NA**
RW-6	5-Jun-12	47.22	47.48	-0.26	<1	<1	2.4	4.1	6.5	<1	**16**	NS	33
	5-Sep-12	47.22	36.95	10.27	<1	<1	<1	<2	<2	<1	**22**	NS	<1
	5-Dec-12	47.22	37.01	10.21	<1	<1	<1	<2	<2	<1	**1.4**	<0.1	<1
	4-Mar-13	47.22	36.81	10.41	<1	<1	<1	<2	<2	<1	**0.53**	<0.1	1.1
	4-Jun-13	47.22	36.55	10.67	<1	<1	<1	<2	<2	<1	**0.65**	<0.1	<1
	28-Apr-14	47.22	46.78	0.44	<1	<1	<1	<2	<2	<1	<0.1	NS	1.3

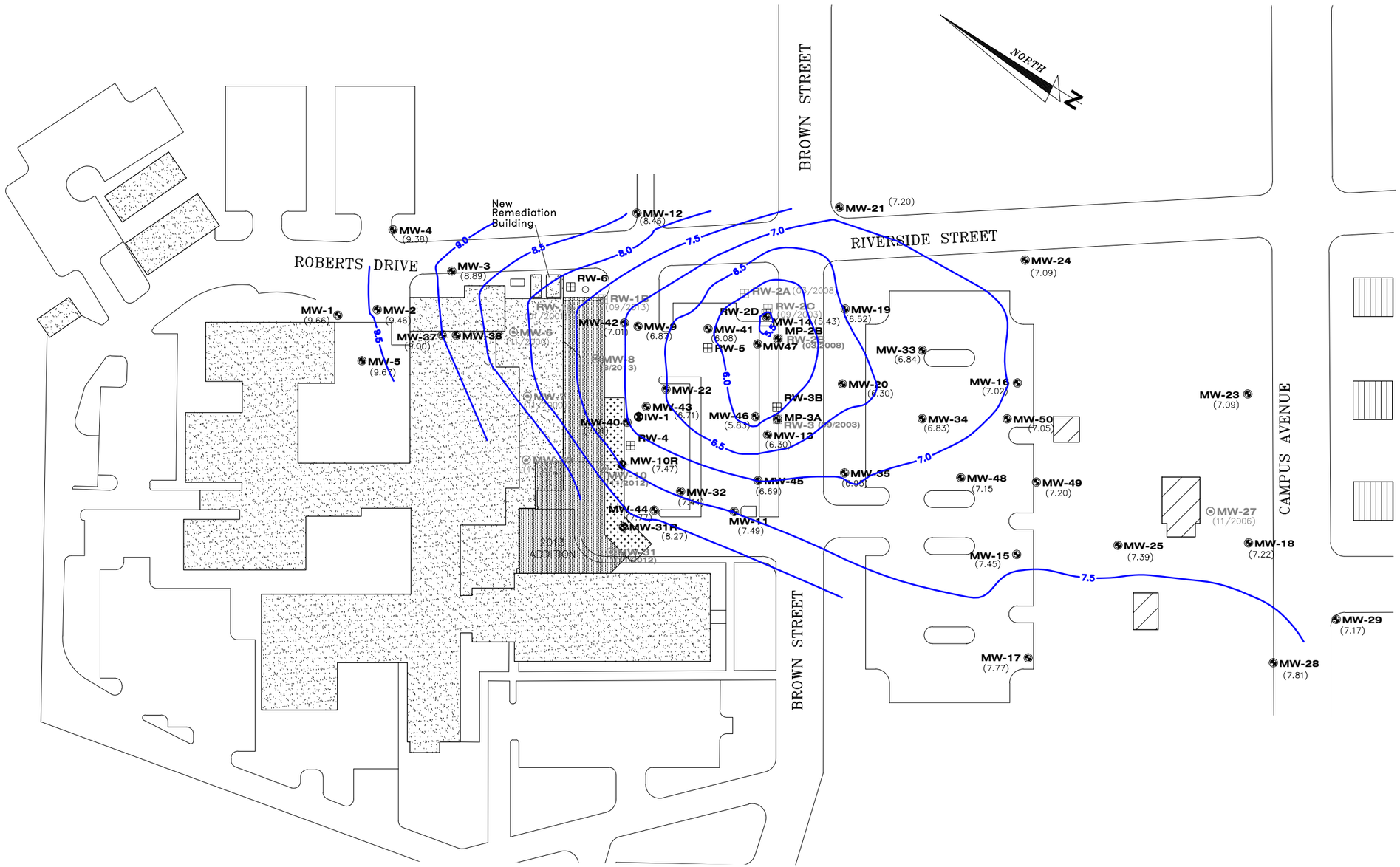
NS - Not Sampled

FIGURES

FIGURE 1

Water Table Contour Map

X:\DAN-WORK FOR OTHERS\JAMES\4070-00-00\2781-JAN 2014\2781-MAY.dwg



LEGEND

MW-40	MONITORING WELL
RW-3B	RECOVERY WELL
IW-1	INJECTION WELL
MW-30	ABANDONED MONITORING WELL
(09/2003)	DATE OF ABANDONMENT
RW-3	ABANDONED RECOVERY WELL
(09/2003)	DATE OF ABANDONMENT
5.50	WATER TABLE CONTOUR MEASURED 05/20/2014 (FT. MSL)

EXCLUDES GAUGING DATA FROM ACTIVE RECOVERY WELLS (RW-2D, RW-3B, RW-4, RW-5, RW-6, MW-22)

80 0 40 80

GRAPHIC SCALE (FEET)

FIGURE 1

WATER TABLE CONTOUR MAP FOR

CHESTER RIVER HOSPITAL CENTER

CHESTERTOWN, MARYLAND

PROJECT:	SCALE:
4070-00	AS SHOWN
DRAWN BY:	DATE:
DK	05/30/2014

EBA ENGINEERING, INC.
4813 SETON DRIVE
BALTIMORE, MD. 21215
Tel: (410) 358-7171 Fax: (410) 358-7213
www.ebaengineering.com

Figure 1 – Water table contour map May 20, 2014 – Chester River Hospital Center, Chestertown, Maryland.

FIGURE 2

Water Quality Map of TPH-DRO

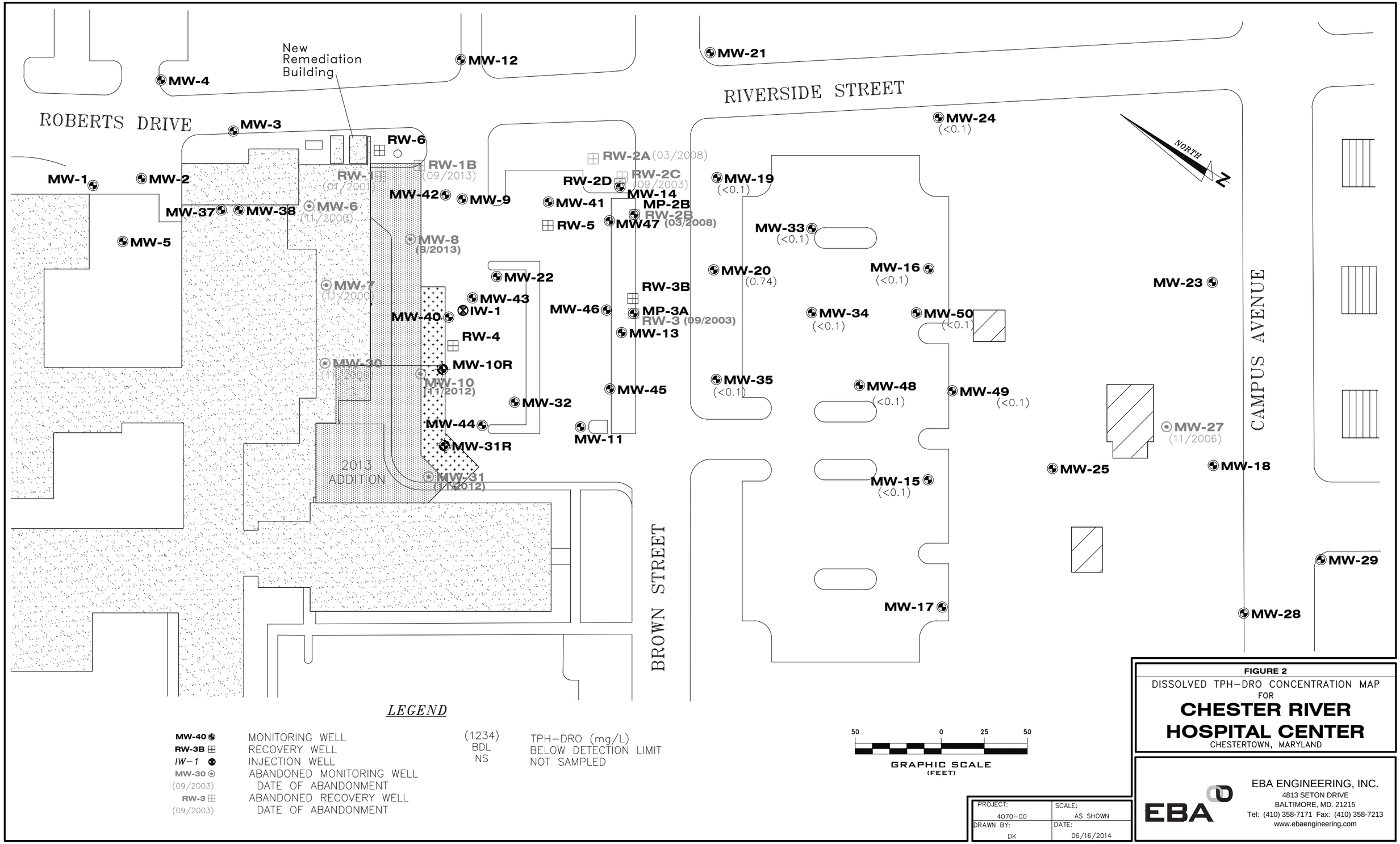


FIGURE 2
DISSOLVED TPH-DRO CONCENTRATION MAP
FOR
CHESTER RIVER HOSPITAL CENTER
CHESTERTOWN, MARYLAND

Figure 2- Site map showing total petroleum hydrocarbon (TPH) concentrations, May 20, 2014 Chester River Hospital Center, Chestertown, Maryland.

APPENDIX A

LABORATORY RESULTS

Analytical Report for

UMM Shore Regional Health at Chestertown

Certificate of Analysis No.: 14052304

Project Manager: James Sines
Project Name : Chester River Hospital Center
Project Location: Chestertown, MD
Project ID : 3111.01.52

June 2, 2014

Phase Separation Science, Inc.
6630 Baltimore National Pike
Baltimore, MD 21228
Phone: (410) 747-8770
Fax: (410) 788-8723

OFFICES:
6630 BALTIMORE NATIONAL PIKE
ROUTE 40 WEST
BALTIMORE, MD 21228
410-747-8770
800-932-9047
FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.

June 2, 2014

James Sines
UMM Shore Regional Health at Chestertown
100 Brown Street
Chestertown, MD 21620

Reference: PSS Work Order(s) No: **14052304**
Project Name: Chester River Hospital Center
Project Location: Chestertown, MD
Project ID.: 3111.01.52

Dear James Sines :

This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order(s) numbered **14052304**.

All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on June 27, 2014. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt , the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 5 years, after which time it will be disposed of without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Sincerely,

Dan Prucnal
Laboratory Manager

Sample Summary

Client Name: UMM Shore Regional Health at Chestertown
Project Name: Chester River Hospital Center

Work Order Number(s): 14052304

Project ID: 3111.01.52

The following samples were received under chain of custody by Phase Separation Science (PSS) on 05/23/2014 at 10:10 am

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
14052304-001	MW-35	GROUND WATER	05/20/14 12:05
14052304-002	MW-34	GROUND WATER	05/20/14 12:20
14052304-003	MW-19	GROUND WATER	05/20/14 12:40
14052304-004	MW-15	GROUND WATER	05/20/14 13:05
14052304-005	MW-16	GROUND WATER	05/20/14 13:20
14052304-006	MW-24	GROUND WATER	05/20/14 13:45
14052304-007	MW-33	GROUND WATER	05/20/14 14:10
14052304-008	MW-20	GROUND WATER	05/20/14 14:40
14052304-009	System Discharge	GROUND WATER	05/21/14 10:30

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

Notes:

1. The presence of a common laboratory contaminant such as methylene chloride may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. Unless otherwise noted in the case narrative, results are reported on a dry weight basis with the exception of pH, flashpoint, moisture, and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminates, and part 141.3, for the secondary drinking water contaminates.
5. Sample prepared under EPA 3550C with concentrations greater than 20 mg/Kg should employ the microtip extraction procedure if required to meet data quality objectives.
6. The analysis of acrolein by EPA 624 must be analyzed within three days of sampling unless pH is adjusted to 4-5 units [40 CFR part 136.3(e)].

Standard Flags/Abbreviations:

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
C Results Pending Final Confirmation.
E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
J The target analyte was positively identified below the reporting limit but greater than the LOD.
LOD Limit of Detection. An estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte and matrix specific.
ND Not Detected at or above the reporting limit.
RL PSS Reporting Limit.
U Not detected.

Certifications:

NELAP Certifications: PA 68-03330, VA 460156
State Certifications: MD 179, WV 303
Regulated Soil Permit: P330-12-00268
NSWC USCG Accepted Laboratory
LDBE MWAA LD1997-0041-2015

OFFICES:
6630 BALTIMORE NATIONAL PIKE
ROUTE 40 WEST
BALTIMORE, MD 21228
410-747-8770
800-932-9047
FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14052304

UMM Shore Regional Health at Chestertown, Chestertown, MD

June 2, 2014

Project Name: Chester River Hospital Center
Project Location: Chestertown, MD
Project ID: 3111.01.52

Sample ID: MW-35 **Date/Time Sampled: 05/20/2014 12:05** **PSS Sample ID: 14052304-001**
Matrix: GROUND WATER **Date/Time Received: 05/23/2014 10:10**

Total Petroleum Hydrocarbons - DRO Analytical Method: SW-846 8015 C Preparation Method: 3510C

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/L	0.10		1	05/27/14	05/28/14 09:42	1040

Sample ID: MW-34 **Date/Time Sampled: 05/20/2014 12:20** **PSS Sample ID: 14052304-002**
Matrix: GROUND WATER **Date/Time Received: 05/23/2014 10:10**

Total Petroleum Hydrocarbons - DRO Analytical Method: SW-846 8015 C Preparation Method: 3510C

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/L	0.10		1	05/27/14	05/27/14 17:36	1040

Sample ID: MW-19 **Date/Time Sampled: 05/20/2014 12:40** **PSS Sample ID: 14052304-003**
Matrix: GROUND WATER **Date/Time Received: 05/23/2014 10:10**

Total Petroleum Hydrocarbons - DRO Analytical Method: SW-846 8015 C Preparation Method: 3510C

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/L	0.10		1	05/27/14	05/28/14 09:42	1040

Sample ID: MW-15 **Date/Time Sampled: 05/20/2014 13:05** **PSS Sample ID: 14052304-004**
Matrix: GROUND WATER **Date/Time Received: 05/23/2014 10:10**

Total Petroleum Hydrocarbons - DRO Analytical Method: SW-846 8015 C Preparation Method: 3510C

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/L	0.10		1	05/27/14	05/27/14 18:07	1040

Sample ID: MW-16 **Date/Time Sampled: 05/20/2014 13:20** **PSS Sample ID: 14052304-005**
Matrix: GROUND WATER **Date/Time Received: 05/23/2014 10:10**

Total Petroleum Hydrocarbons - DRO Analytical Method: SW-846 8015 C Preparation Method: 3510C

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/L	0.10		1	05/27/14	05/28/14 10:13	1040

Sample ID: MW-24 **Date/Time Sampled: 05/20/2014 13:45** **PSS Sample ID: 14052304-006**
Matrix: GROUND WATER **Date/Time Received: 05/23/2014 10:10**

Total Petroleum Hydrocarbons - DRO Analytical Method: SW-846 8015 C Preparation Method: 3510C

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/L	0.11		1	05/27/14	05/27/14 18:38	1040

OFFICES:
6630 BALTIMORE NATIONAL PIKE
ROUTE 40 WEST
BALTIMORE, MD 21228
410-747-8770
800-932-9047
FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14052304

UMM Shore Regional Health at Chestertown, Chestertown, MD

June 2, 2014

Project Name: Chester River Hospital Center
Project Location: Chestertown, MD
Project ID: 3111.01.52

Sample ID: MW-33 **Date/Time Sampled: 05/20/2014 14:10** **PSS Sample ID: 14052304-007**
Matrix: GROUND WATER **Date/Time Received: 05/23/2014 10:10**

Total Petroleum Hydrocarbons - DRO — Analytical Method: SW-846 8015 C — Preparation Method: 3510C

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/L	0.10		1	05/27/14	05/28/14 10:13	1040

Sample ID: MW-20 **Date/Time Sampled: 05/20/2014 14:40** **PSS Sample ID: 14052304-008**
Matrix: GROUND WATER **Date/Time Received: 05/23/2014 10:10**

Total Petroleum Hydrocarbons - DRO — Analytical Method: SW-846 8015 C — Preparation Method: 3510C

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	**0.74**	mg/L	0.10		1	05/27/14	05/27/14 19:09	1040

Sample ID: System Discharge **Date/Time Sampled: 05/21/2014 10:30** **PSS Sample ID: 14052304-009**
Matrix: GROUND WATER **Date/Time Received: 05/23/2014 10:10**

Total Petroleum Hydrocarbons - DRO — Analytical Method: SW-846 8015 C — Preparation Method: 3510C

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/L	0.10		1	05/27/14	05/28/14 10:44	1040

BTEX, MTBE, TBA, & Naph. — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
tert-Butanol	ND	ug/L	20		1	05/27/14	05/27/14 23:19	1011
Methyl-t-Butyl Ether	ND	ug/L	1.0		1	05/27/14	05/27/14 23:19	1011
Benzene	ND	ug/L	1.0		1	05/27/14	05/27/14 23:19	1011
Toluene	ND	ug/L	1.0		1	05/27/14	05/27/14 23:19	1011
Ethylbenzene	ND	ug/L	1.0		1	05/27/14	05/27/14 23:19	1011
m&p-Xylene	ND	ug/L	2.0		1	05/27/14	05/27/14 23:19	1011
o-Xylene	ND	ug/L	1.0		1	05/27/14	05/27/14 23:19	1011
Naphthalene	**1.0**	ug/L	1.0		1	05/27/14	05/27/14 23:19	1011

Case Narrative Summary

Client Name: UMM Shore Regional Health at Chestertown

Project Name: Chester River Hospital Center

Work Order Number(s): 14052304
Project ID: 3111.01.52

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

The analyses of chlorine, pH, dissolved oxygen, temperature and sulfite for drinking water and non-potable samples tested for compliance have a maximum holding time of 15 minutes. As such, all laboratory analyses for these analytes exceed holding times.

Sample Receipt:

Sample(s) received at a temperature greater than 6 degrees C, and ice was melted in the first cooler and present in the second cooler.
Amber containers for MW-49, MW-48, and MW-50 arrived broken in the second cooler.
No sampling date and/or time on COC for "System Discharge." Obtained from container labels.

Sample Preparation:

Total Petroleum Hydrocarbons - DRO

Preparation Batch: 50523

'Matrix spike/ matrix spike duplicate analyses were not performed due to insufficient sample quantity.'

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.

Analytical Data Package Information Summary

Work Order(s): 14052304
Report Prepared For: UMM Shore Regional Health at Chestertown,
Project Name: Chester River Hospital Center
Project Manager: James Sines

Method	Client Sample Id	Analysis Type	Lab Sample Id	Analyst	Mtx	Prep Batch	Analytical Batch	Sampled	Prepared	Analyzed
SW-846 8015 C	MW-35	Initial	14052304-001	1040	W	50523	114152	05/20/2014	05/27/2014 08:25	05/28/2014 09:42
	MW-34	Initial	14052304-002	1040	W	50523	114152	05/20/2014	05/27/2014 08:25	05/27/2014 17:36
	MW-19	Initial	14052304-003	1040	W	50523	114152	05/20/2014	05/27/2014 08:25	05/28/2014 09:42
	MW-15	Initial	14052304-004	1040	W	50523	114152	05/20/2014	05/27/2014 08:25	05/27/2014 18:07
	MW-16	Initial	14052304-005	1040	W	50523	114152	05/20/2014	05/27/2014 08:25	05/28/2014 10:13
	MW-24	Initial	14052304-006	1040	W	50523	114152	05/20/2014	05/27/2014 08:25	05/27/2014 18:38
	MW-33	Initial	14052304-007	1040	W	50523	114152	05/20/2014	05/27/2014 08:25	05/28/2014 10:13
	MW-20	Initial	14052304-008	1040	W	50523	114152	05/20/2014	05/27/2014 08:25	05/27/2014 19:09
	System Discharge	Initial	14052304-009	1040	W	50523	114152	05/21/2014	05/27/2014 08:25	05/28/2014 10:44
	50523-1-BKS	BKS	50523-1-BKS	1040	W	50523	114152	--------	05/27/2014 08:25	05/27/2014 14:29
	50523-1-BLK	BLK	50523-1-BLK	1040	W	50523	114152	--------	05/27/2014 08:25	05/27/2014 15:31
	50523-1-BSD	BSD	50523-1-BSD	1040	W	50523	114152	--------	05/27/2014 08:25	05/27/2014 15:00
SW-846 8260 B	System Discharge	Initial	14052304-009	1011	W	50560	114158	05/21/2014	05/27/2014 14:00	05/27/2014 23:19
	50560-1-BKS	BKS	50560-1-BKS	1011	W	50560	114158	--------	05/27/2014 14:00	05/27/2014 19:15
	50560-1-BLK	BLK	50560-1-BLK	1011	W	50560	114158	--------	05/27/2014 14:00	05/27/2014 20:24
	System Discharge S	MS	14052304-009 S	1011	W	50560	114158	05/21/2014	05/27/2014 14:00	05/28/2014 02:49
	System Discharge SD	MSD	14052304-009 SD	1011	W	50560	114158	05/21/2014	05/27/2014 14:00	05/28/2014 03:24

Form 2 - Surrogate Recoveries

Project Name: Chester River Hospital Center

06/02/2014

Work Order #: 14052304 **Project ID:** 3111.01.52

Lab Batch #: 114152 **Sample:** 50523-1-BKS / BKS **Matrix:** Water

Units: mg/L **Date Analyzed:** 05/27/2014 14:29

Total Petroleum Hydrocarbons - DRO Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
o-Terphenyl	0.834	1.00	83	37-136	

Lab Batch #: 114152 **Sample:** 50523-1-BSD / BSD **Matrix:** Water

Units: mg/L **Date Analyzed:** 05/27/2014 15:00

Total Petroleum Hydrocarbons - DRO Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
o-Terphenyl	0.812	1.00	81	37-136	

Lab Batch #: 114152 **Sample:** 50523-1-BLK / BLK **Matrix:** Water

Units: mg/L **Date Analyzed:** 05/27/2014 15:31

Total Petroleum Hydrocarbons - DRO Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
o-Terphenyl	0.805	1.00	81	37-136	

Lab Batch #: 114152 **Sample:** 14052304-002 / SMP **Matrix:** Ground Water

Units: mg/L **Date Analyzed:** 05/27/2014 17:36

Total Petroleum Hydrocarbons - DRO Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
o-Terphenyl	0.870	1.00	87	37-136	

* Surrogate outside of Laboratory QC limits

Surrogate Recovery [C] = 100 * A / B

Phase Separation Science, Inc.
6630 Baltimore National Pike
Baltimore, MD 21228

Form 2 - Surrogate Recoveries

Project Name: Chester River Hospital Center

06/02/2014

Work Order #: 14052304 **Project ID:** 3111.01.52

Lab Batch #: 114152 **Sample:** 14052304-004 / SMP **Matrix:** Ground Water

Units: mg/L **Date Analyzed:** 05/27/2014 18:07

Total Petroleum Hydrocarbons - DRO Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
o-Terphenyl	1.00	1.00	105	37-136	

Lab Batch #: 114152 **Sample:** 14052304-006 / SMP **Matrix:** Ground Water

Units: mg/L **Date Analyzed:** 05/27/2014 18:38

Total Petroleum Hydrocarbons - DRO Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
o-Terphenyl	0.980	1.11	88	37-136	

Lab Batch #: 114152 **Sample:** 14052304-008 / SMP **Matrix:** Ground Water

Units: mg/L **Date Analyzed:** 05/27/2014 19:09

Total Petroleum Hydrocarbons - DRO Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
o-Terphenyl	0.810	1.00	81	37-136	

Lab Batch #: 114152 **Sample:** 14052304-001 / SMP **Matrix:** Ground Water

Units: mg/L **Date Analyzed:** 05/28/2014 09:42

Total Petroleum Hydrocarbons - DRO Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
o-Terphenyl	0.910	1.00	91	37-136	

* Surrogate outside of Laboratory QC limits

Surrogate Recovery [C] = 100 * A / B

Phase Separation Science, Inc.
6630 Baltimore National Pike
Baltimore, MD 21228

Form 2 - Surrogate Recoveries

Project Name: Chester River Hospital Center

06/02/2014

Work Order #: 14052304 **Project ID:** 3111.01.52

Lab Batch #: 114152 **Sample:** 14052304-003 / SMP **Matrix:** Ground Water

Units: mg/L **Date Analyzed:** 05/28/2014 09:42

Total Petroleum Hydrocarbons - DRO Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
o-Terphenyl	0.890	1.00	89	37-136	

Lab Batch #: 114152 **Sample:** 14052304-005 / SMP **Matrix:** Ground Water

Units: mg/L **Date Analyzed:** 05/28/2014 10:13

Total Petroleum Hydrocarbons - DRO Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
o-Terphenyl	0.890	1.00	89	37-136	

Lab Batch #: 114152 **Sample:** 14052304-007 / SMP **Matrix:** Ground Water

Units: mg/L **Date Analyzed:** 05/28/2014 10:13

Total Petroleum Hydrocarbons - DRO Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
o-Terphenyl	0.840	1.00	84	37-136	

Lab Batch #: 114152 **Sample:** 14052304-009 / SMP **Matrix:** Ground Water

Units: mg/L **Date Analyzed:** 05/28/2014 10:44

Total Petroleum Hydrocarbons - DRO Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
o-Terphenyl	0.850	1.00	85	37-136	

* Surrogate outside of Laboratory QC limits

Surrogate Recovery [C] = 100 * A / B

Phase Separation Science, Inc.
6630 Baltimore National Pike
Baltimore, MD 21228

Form 2 - Surrogate Recoveries

Project Name: Chester River Hospital Center

06/02/2014

Work Order #: 14052304 **Project ID:** 3111.01.52

Lab Batch #: 114158 **Sample:** 50560-1-BKS / BKS **Matrix:** Water

Units: ug/L **Date Analyzed:** 05/27/2014 19:15

BTEX, MTBE, TBA, & Naph. Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
Dibromofluoromethane	50.7	50.00	101	84-110	
Toluene-D8	50.1	50.00	100	94-109	
4-Bromofluorobenzene	49.0	50.00	98	81-133	

Lab Batch #: 114158 **Sample:** 50560-1-BLK / BLK **Matrix:** Water

Units: ug/L **Date Analyzed:** 05/27/2014 20:24

BTEX, MTBE, TBA, & Naph. Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
Dibromofluoromethane	50.1	50.00	100	84-110	
Toluene-D8	49.6	50.00	99	94-109	
4-Bromofluorobenzene	53.8	50.00	108	81-133	

Lab Batch #: 114158 **Sample:** 14052304-009 / SMP **Matrix:** Ground Water

Units: ug/L **Date Analyzed:** 05/27/2014 23:19

BTEX, MTBE, TBA, & Naph. Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
Dibromofluoromethane	51.0	50.00	101	84-110	
Toluene-D8	51.0	50.00	101	94-109	
4-Bromofluorobenzene	52.0	50.00	104	81-133	

* Surrogate outside of Laboratory QC limits

Surrogate Recovery [C] = 100 * A / B

Phase Separation Science, Inc.
6630 Baltimore National Pike
Baltimore, MD 21228

Form 2 - Surrogate Recoveries

Project Name: Chester River Hospital Center

06/02/2014

Work Order #: 14052304 **Project ID:** 3111.01.52

Lab Batch #: 114158 **Sample:** 14052304-009 S / MS **Matrix:** Ground Water

Units: ug/L **Date Analyzed:** 05/28/2014 02:49

BTEX, MTBE, TBA, & Naph. Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
Dibromofluoromethane	51.4	50.00	103	84-110	
Toluene-D8	50.8	50.00	102	94-109	
4-Bromofluorobenzene	49.2	50.00	98	81-133	

Lab Batch #: 114158 **Sample:** 14052304-009 SD / MSD **Matrix:** Ground Water

Units: ug/L **Date Analyzed:** 05/28/2014 03:24

BTEX, MTBE, TBA, & Naph. Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
Dibromofluoromethane	50.6	50.00	101	84-110	
Toluene-D8	50.4	50.00	101	94-109	
4-Bromofluorobenzene	49.6	50.00	99	81-133	

* Surrogate outside of Laboratory QC limits

Surrogate Recovery [C] = 100 * A / B

Phase Separation Science, Inc.
6630 Baltimore National Pike
Baltimore, MD 21228

Blank Summary 14052304

UMM Shore Regional Health at Chestertown, Chestertown, MD

Chester River Hospital Center

Analytical Method: **SW-846 8015 C** Prep Method: SW3510C
Matrix: **WATER**

Sample Id: **50523-1-BLK** Lab Sample Id: **50523-1-BLK**

Date Analyzed: May-27-14 15:31 Analyst: 1040 Date Prep: May-27-14 08:25 Tech: 1028
Seq Number: 114152

Parameter	Cas Number	Result	RL	LOD	Units	Flag	Dil
TPH-DRO (Diesel Range Organics)	C10C28DRO	ND	0.1000	0.04000	mg/L	U	1

Blank Summary 14052304

UMM Shore Regional Health at Chestertown, Chestertown, MD

Chester River Hospital Center

Analytical Method: **SW-846 8260 B** Prep Method: SW5030B
Matrix: **WATER**

Sample Id: **50560-1-BLK** Lab Sample Id: **50560-1-BLK**

Date Analyzed: May-27-14 20:24 Analyst: 1011 Date Prep: May-27-14 14:00 Tech: 1011
Seq Number: 114158

Parameter	Cas Number	Result	RL	LOD	Units	Flag	Dil
tert-Butanol	75-65-0	ND	20.00	10.00	ug/L	U	1
Methyl-t-Butyl Ether	1634-04-4	ND	1.000	0.5000	ug/L	U	1
Benzene	71-43-2	ND	1.000	0.5000	ug/L	U	1
Toluene	108-88-3	ND	1.000	0.5000	ug/L	U	1
Ethylbenzene	100-41-4	ND	1.000	0.5000	ug/L	U	1
m&p-Xylene	108-38-3	ND	2.000	1.000	ug/L	U	1
o-Xylene	95-47-6	ND	1.000	0.5000	ug/L	U	1
Naphthalene	91-20-3	ND	1.000	0.5000	ug/L	U	1

Blank Spike Recovery

Project Name: Chester River Hospital Center

Work Order #: 14052304 **Project ID:** 3111.01.52

Prep Batch #: 50560 **Date Prepared:** 05/27/2014 14:00 **Sample ID:** 50560-1-BKS **Matrix:** Water

Lab Batch ID: 114158 **Date Analyzed:** 05/27/2014 20:24 **Analyst:** 1011

Reporting Units: ug/L

BLANK /BLANK SPIKE RECOVERY STUDY

BTEX, MTBE, TBA, & Naph. Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags	Marginal Exceedance Limits
tert-Butanol	<20.00	50.00	51.02	102	15-150		0-215
Methyl-t-Butyl Ether	<1.000	50.00	49.31	99	30-168		7-190
Benzene	<1.000	50.00	50.02	100	77-122		70-130
Toluene	<1.000	50.00	48.39	97	77-123		70-130
Ethylbenzene	<1.000	50.00	47.81	96	79-122		72-130
m&p-Xylene	<2.000	100	95.61	96	78-119		72-125
o-Xylene	<1.000	50.00	48.03	96	79-123		72-131
Naphthalene	<1.000	50.00	46.76	94	46-154		28-172

Blank Spike Recovery [D] = 100*(([C])/[B])

Phase Separation Science, Inc.
6630 Baltimore National Pike
Baltimore, MD 21228

H= Recovery of BS,BSD or both exceeded the laboratory control limits
F = RPD exceeded the laboratory control limits
L = Recovery of BS,BSD or both below the laboratory control limits

LCS/LCSD Recoveries

Project Name: Chester River Hospital Center

Work Order #: 14052304 **Project ID:** 3111.01.52

Prep Batch #: 50523 **Date Prepared:** 05/27/2014 08:25 **Sample:** 50523-1-BKS **Analyst:** 1040

Lab Batch ID: 114152 **Date Analyzed:** 05/27/2014 14:29 **Method:** SW3510C / SW8015DRO **Matrix:** Water

Units: mg/L

Total Petroleum Hydrocarbons - DRO Analytes	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
TPH-DRO (Diesel Range Organics)	<0.1000	1.000	1.092	109	1.000	0.8954	90	20	61-119	20	

Relative Percent Difference RPD = 200*|(D-G)/(D+G)|
Laboratory Control Sample (LCS) Percent Recovery [D] = 100*(C)/[B]
Laboratory Control Sample Duplicate (LCSD) Percent Recovery [G] = 100*(F)/[E]

Phase Separation Science, Inc.
6630 Baltimore National Pike
Baltimore, MD 21228

H= Recovery of BS,BSD or both exceeded the laboratory control limits
F = RPD exceeded the laboratory control limits
L = Recovery of BS,BSD or both below the laboratory control limits

SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

PHASE SEPARATION SCIENCE, INC.

www.phaseonline.com
email: info@phaseonline.com

(1)
*CLIENT: BRIGHT FIELDS, INC. *OFFICE LOC. WILMINGTON, DE
*PROJECT MGR: KEN HANNON *PHONE NO.: (302) 656-9600
EMAIL: KHANNON@BRIGHTFIELDS.NET *FAX NO.: (302) 656-9700
*PROJECT NAME: CHESTER RIVER HOSPITAL *PROJECT NO.: 3111.0152
SITE LOCATION: CHESTERTOWN, MD P.O. NO.:
SAMPLER(S): R. MORTEL / M. CRASKEY DW CERT NO.:

PSS Work Order #: 14052304 PAGE 1 OF 2

Matrix Codes: SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil L=Liquid SOL=Solid A=Air WI=Wipe

(2)

LAB NO.	*SAMPLE IDENTIFICATION	*DATE (SAMPLED)	*TIME (SAMPLED)	MATRIX (See Codes)	No. CONTAINERS	SAMPLE TYPE C = COMP G = GRAB	Preservatives Used: NONE	Analysis/ Method Required (3) * TPH-DRO	REMARKS
1	MW-35	5-20-14	12:05	GW	1	G		X	
2	MW-34	5-20-14	12:20	GW	1	G		X	
3	MW-19	5-20-14	12:40	GW	1	G		X	
4	MW-15	5-20-14	13:05	GW	1	G		X	
5	MW-16	5-20-14	13:20	GW	1	G		X	
6	MW-24	5-20-14	13:45	GW	1	G		X	
7	MW-33	5-20-14	14:10	GW	1	G		X	
8	MW-20	5-20-14	14:40	GW	1	G		X	
	MW-49	5-21-14	9:15	GW	1	G		X	
	MW-48	5-21-14	9:20	GW	1	G		X	

(5)

Relinquished By:	Date	Time	Received By:
(1) R. Mortel	5/22/14	06:20	Fed-Ex
(2) Fed-Ex 8042 5310 6258 8042 5310 5766	5/23/14	10:10	[illegible]
(3)			
(4)			

(4)
*Requested TAT (One TAT per COC): ☒ 5-Day ☐ 3-Day ☐ 2-Day ☐ Next Day ☐ Emergency ☐ Other

Data Deliverables Required: COA ☐ QC SUMM ☐ CLP LIKE ☐ OTHER ____

Special Instructions:

DW COMPLIANCE? YES ☐ EDD FORMAT TYPE ____

STATE RESULTS REPORTED TO: MD ☐ DE ☐ PA ☐ VA ☐ WV ☐ OTHER ____

# of Coolers: 2
Custody Seal: Abs
Ice Present: (1) No (2) Not [illegible] Temp: (1) 12 (2) 8 °C
Shipping Carrier: Fed-Ex PO

6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723

The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary. * = REQUIRED

SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

PHASE SEPARATION SCIENCE, INC.

www.phaseonline.com
email: info@phaseonline.com

(1)
*CLIENT: BRIGHTFIELDS, INC. *OFFICE LOC. WILMINGTON, DE
*PROJECT MGR: KEN HANNON *PHONE NO.: 302 656-9600
EMAIL: KHANNON@BRIGHTFIELDSINC.COM FAX NO.: (302) 656-9700
*PROJECT NAME: CHESTER RIVER HOSPITAL CTR *PROJECT NO. 311101.52
SITE LOCATION: CHESTERTOWN, MD P.O. NO.:
SAMPLER(S): R. MORTEL / M. CRASKEY DW CERT NO.:

PSS Work Order #: 14052304 PAGE 2 OF 2

Matrix Codes: SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil L=Liquid SOL=Solid A=Air WI=Wipe

(2)

LAB NO.	*SAMPLE IDENTIFICATION	*DATE (SAMPLED)	*TIME (SAMPLED)	MATRIX (See Codes)	No. CONTAINERS	SAMPLE TYPE C = COMP G = GRAB	TPH-DRO	BTEX	MTBE	TBA	NAPHTHALENE	REMARKS
	Preservatives Used						NONE	HCL	→			
	MW-50	5-21-14	10:15	GW	1	G	X					
9	SYSTEM DISCHARGE											

(5)

Relinquished By: (1)	Date	Time	Received By:
Ron Mortel	5/22/14	06:20	Fed-Ex
Relinquished By: (2) Fed-Ex 8042531062558 8042531057266	5/23/14	10:10	Robyn Phillips
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

(4)
*Requested TAT (One TAT per COC): [X] 5-Day [ ] 3-Day [ ] 2-Day [ ] Next Day [ ] Emergency [ ] Other
Data Deliverables Required: COA [ ] QC SUMM [ ] CLP LIKE [ ] OTHER ____
# of Coolers: 2
Custody Seal: Abs
Ice Present: melted Pres Temp: 12.8 °C
Shipping Carrier: Fed-Ex PO
Special Instructions:
DW COMPLIANCE? YES [ ]
EDD FORMAT TYPE ____
STATE RESULTS REPORTED TO: MD [ ] DE [ ] PA [ ] VA [ ] WV [ ] OTHER ____

6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723

The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary. * = REQUIRED

Phase Separation Science, Inc

Sample Receipt Checklist

Work Order #	14052304	**Received By**	Robyn Rhudy
Client Name	UMM Shore Regional Health at Ches	**Date Received**	05/23/2014 10:10:00 AM
Project Name	Chester River Hospital Center	**Delivered By**	Federal Express Priority
Project Number	3111.01.52	**Tracking No**	804253105766
Disposal Date	06/27/2014	**Logged In By**	Robyn Rhudy

Shipping Container(s)

No. of Coolers 2

		Ice	Present
Custody Seal(s) Intact?	N/A	Temp (deg C)	8
Seal(s) Signed / Dated?	N/A	Temp Blank Present	No

Documentation

		Sampler Name	R. Mortel & M. Crask
COC agrees with sample labels?	Yes	MD DW Cert. No.	N/A
Chain of Custody	Yes		

Sample Container

		Custody Seal(s) Intact?	Not Applicable
Appropriate for Specified Analysis?	Yes	Seal(s) Signed / Dated	Not Applicable
Intact?	No		
Labeled and Labels Legible?	Yes		

Total No. of Samples Received 9

Total No. of Containers Received 12

Preservation

Metals	(pH<2)	N/A
Cyanides	(pH>12)	N/A
Sulfide	(pH>9)	N/A
TOC, COD, Phenols	(pH<2)	N/A
TOX, TKN, NH3, Total Phos	(pH<2)	N/A
VOC, BTEX (VOA Vials Rcvd Preserved)	(pH<2)	Yes
Do VOA vials have zero headspace?		Yes
624 VOC (Rcvd at least one unpreserved VOA vial)		N/A

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling. Samples which require thermal preservation shall be considered acceptable when received at a temperature above freezing to 6°C. Samples that are hand delivered on the day that they are collected may not meet these criteria but shall be considered acceptable if there is evidence that the chilling process has begun such as arrival on ice.

Sample(s) received at a temperature greater than 6 degrees C, and ice was melted in the first cooler and present in the second cooler.
Amber containers for MW-49, MW-48, and MW-50 arrived broken in the second cooler.
No sampling date and/or time on COC for "System Discharge." Obtained from container labels.

Samples Inspected/Checklist Completed By: Robyn Rhudy — Date: 05/23/2014

PM Review and Approval: Lynn Jackson — Date: 05/27/2014

Phase Separation Science, Inc

Sample Receipt Checklist

Work Order #	14052304	**Received By**	Robyn Rhudy
Client Name	UMM Shore Regional Health at Ches	**Date Received**	05/23/2014 10:10:00 AM
Project Name	Chester River Hospital Center	**Delivered By**	Federal Express Priority
Project Number	3111.01.52	**Tracking No**	804253106258
Disposal Date	06/27/2014	**Logged In By**	Robyn Rhudy

Shipping Container(s)

No. of Coolers 2

		Ice	Melted
Custody Seal(s) Intact?	N/A	Temp (deg C)	12
Seal(s) Signed / Dated?	N/A	Temp Blank Present	No

Documentation

		Sampler Name	R. Mortel & M. Crask
COC agrees with sample labels?	Yes	MD DW Cert. No.	N/A
Chain of Custody	Yes		

Sample Container

		Custody Seal(s) Intact?	Not Applicable
Appropriate for Specified Analysis?	Yes	Seal(s) Signed / Dated	Not Applicable
Intact?	No		
Labeled and Labels Legible?	Yes		

Total No. of Samples Received 9

Total No. of Containers Received 12

Preservation

Metals	(pH<2)	N/A
Cyanides	(pH>12)	N/A
Sulfide	(pH>9)	N/A
TOC, COD, Phenols	(pH<2)	N/A
TOX, TKN, NH3, Total Phos	(pH<2)	N/A
VOC, BTEX (VOA Vials Rcvd Preserved)	(pH<2)	Yes
Do VOA vials have zero headspace?		Yes
624 VOC (Rcvd at least one unpreserved VOA vial)		N/A

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling. Samples which require thermal preservation shall be considered acceptable when received at a temperature above freezing to 6°C. Samples that are hand delivered on the day that they are collected may not meet these criteria but shall be considered acceptable if there is evidence that the chilling process has begun such as arrival on ice.

Sample(s) received at a temperature greater than 6 degrees C, and ice was melted in the first cooler and present in the second cooler.
Amber containers for MW-49, MW-48, and MW-50 arrived broken in the second cooler.
No sampling date and/or time on COC for "System Discharge." Obtained from container labels.

Samples Inspected/Checklist Completed By: Robyn Rhudy — Date: 05/23/2014

PM Review and Approval: Lynn Jackson — Date: 05/27/2014

Analytical Report for

UMM Shore Regional Health at Chestertown

Certificate of Analysis No.: 14060601

Project Manager: Ken Hannon
Project Name : Chester River Hospital
Project Location: Chestertown MD.
Project ID : 314.01.52

June 13, 2014

Phase Separation Science, Inc.
6630 Baltimore National Pike
Baltimore, MD 21228
Phone: (410) 747-8770
Fax: (410) 788-8723

OFFICES:
6630 BALTIMORE NATIONAL PIKE
ROUTE 40 WEST
BALTIMORE, MD 21228
410-747-8770
800-932-9047
FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.

June 13, 2014

Ken Hannon
UMM Shore Regional Health at Chestertown
100 Brown Street
Chestertown, MD 21620

Reference: PSS Work Order(s) No: **14060601**
Project Name: Chester River Hospital
Project Location: Chestertown MD.
Project ID.: 314.01.52

Dear Ken Hannon :

This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order(s) numbered **14060601**.

All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on July 11, 2014. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt , the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 5 years, after which time it will be disposed of without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Sincerely,

Dan Prucnal
Laboratory Manager

Sample Summary

Client Name: UMM Shore Regional Health at Chestertown
Project Name: Chester River Hospital

Work Order Number(s): 14060601

Project ID: 314.01.52

The following samples were received under chain of custody by Phase Separation Science (PSS) on 06/06/2014 at 09:35 am

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
14060601-001	MW-48	GROUND WATER	06/04/14 09:30
14060601-002	MW-49	GROUND WATER	06/04/14 09:55
14060601-003	MW-50	GROUND WATER	06/04/14 10:20

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

Notes:

1. The presence of a common laboratory contaminant such as methylene chloride may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. Unless otherwise noted in the case narrative, results are reported on a dry weight basis with the exception of pH, flashpoint, moisture, and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminates, and part 141.3, for the secondary drinking water contaminates.
5. Sample prepared under EPA 3550C with concentrations greater than 20 mg/Kg should employ the microtip extraction procedure if required to meet data quality objectives.
6. The analysis of acrolein by EPA 624 must be analyzed within three days of sampling unless pH is adjusted to 4-5 units [40 CFR part 136.3(e)].

Standard Flags/Abbreviations:

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
C Results Pending Final Confirmation.
E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
J The target analyte was positively identified below the reporting limit but greater than the LOD.
LOD Limit of Detection. An estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte and matrix specific.
ND Not Detected at or above the reporting limit.
RL PSS Reporting Limit.
U Not detected.

Certifications:

NELAP Certifications: PA 68-03330, VA 460156
State Certifications: MD 179, WV 303
Regulated Soil Permit: P330-12-00268
NSWC USCG Accepted Laboratory
LDBE MWAA LD1997-0041-2015

OFFICES:
6630 BALTIMORE NATIONAL PIKE
ROUTE 40 WEST
BALTIMORE, MD 21228
410-747-8770
800-932-9047
FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 14060601

UMM Shore Regional Health at Chestertown, Chestertown, MD

June 13, 2014

Project Name: Chester River Hospital
Project Location: Chestertown MD.
Project ID: 314.01.52

Sample ID: MW-48 **Date/Time Sampled: 06/04/2014 09:30** **PSS Sample ID: 14060601-001**
Matrix: GROUND WATER **Date/Time Received: 06/06/2014 09:35**

Total Petroleum Hydrocarbons - DRO Analytical Method: SW-846 8015 C Preparation Method: 3510C

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/L	0.10		1	06/09/14	06/09/14 18:38	1040

Sample ID: MW-49 **Date/Time Sampled: 06/04/2014 09:55** **PSS Sample ID: 14060601-002**
Matrix: GROUND WATER **Date/Time Received: 06/06/2014 09:35**

Total Petroleum Hydrocarbons - DRO Analytical Method: SW-846 8015 C Preparation Method: 3510C

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/L	0.10		1	06/09/14	06/09/14 18:38	1040

Sample ID: MW-50 **Date/Time Sampled: 06/04/2014 10:20** **PSS Sample ID: 14060601-003**
Matrix: GROUND WATER **Date/Time Received: 06/06/2014 09:35**

Total Petroleum Hydrocarbons - DRO Analytical Method: SW-846 8015 C Preparation Method: 3510C

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/L	0.10		1	06/09/14	06/09/14 19:09	1040

Case Narrative Summary

Client Name: UMM Shore Regional Health at Chestertown

Project Name: Chester River Hospital

Work Order Number(s): 14060601
Project ID: 314.01.52

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

The analyses of chlorine, pH, dissolved oxygen, temperature and sulfite for drinking water and non-potable samples tested for compliance have a maximum holding time of 15 minutes. As such, all laboratory analyses for these analytes exceed holding times.

Sample Receipt:

Sample(s) received at a temperature greater than 6 degrees C and ice was melted.

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.

Analytical Data Package Information Summary

Work Order(s): 14060601
Report Prepared For: UMM Shore Regional Health at Chestertown,
Project Name: Chester River Hospital Center
Project Manager: Ken Hannon

Method	Client Sample Id	Analysis Type	Lab Sample Id	Analyst	Mtx	Prep Batch	Analytical Batch	Sampled	Prepared	Analyzed
SW-846 8015 C	MW-48	Initial	14060601-001	1040	W	50697	114521	06/04/2014	06/09/2014 07:10	06/09/2014 18:38
	MW-49	Initial	14060601-002	1040	W	50697	114521	06/04/2014	06/09/2014 07:10	06/09/2014 18:38
	MW-50	Initial	14060601-003	1040	W	50697	114521	06/04/2014	06/09/2014 07:10	06/09/2014 19:09
	50697-1-BKS	BKS	50697-1-BKS	1040	W	50697	114521	--------	06/09/2014 07:10	06/09/2014 16:02
	50697-1-BLK	BLK	50697-1-BLK	1040	W	50697	114521	--------	06/09/2014 07:10	06/09/2014 17:04
	50697-1-BSD	BSD	50697-1-BSD	1040	W	50697	114521	--------	06/09/2014 07:10	06/09/2014 16:33

PHASE SEPARATION SCIENCE, INC.

QC Summary 14060601

UMM Shore Regional Health at Chestertown
Chester River Hospital

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 114521 Matrix: Ground Water Date Prep: 06/09/2014
PSS Sample ID: 14060601-001

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	78		37-136	%	06/09/14 18:38

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 114521 Matrix: Ground Water Date Prep: 06/09/2014
PSS Sample ID: 14060601-002

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	84		37-136	%	06/09/14 18:38

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 114521 Matrix: Ground Water Date Prep: 06/09/2014
PSS Sample ID: 14060601-003

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	95		37-136	%	06/09/14 19:09

F = RPD exceeded the laboratory control limits
X = Recovery of MS, MSD or both outside of QC Criteria
H= Recovery of BS,BSD or both exceeded the laboratory control limits
L = Recovery of BS,BSD or both below the laboratory control limits

PHASE SEPARATION SCIENCE, INC.

QC Summary 14060601

UMM Shore Regional Health at Chestertown
Chester River Hospital

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 114521 Matrix: Water Date Prep: 06/09/14
MB Sample Id: 50697-1-BLK LCS Sample Id: 50697-1-BKS LCSD Sample Id: 50697-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
TPH-DRO (Diesel Range Organics)	<0.1000	1.000	0.9547	95	0.9100	91	61-119	5	20	mg/L	06/09/14 16:02	

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	LCSD Result	LCSD Flag	Limits	Units	Analysis Date
o-Terphenyl	78		77		79		37-136	%	06/09/14 16:02

F = RPD exceeded the laboratory control limits
X = Recovery of MS, MSD or both outside of QC Criteria
H= Recovery of BS,BSD or both exceeded the laboratory control limits
L = Recovery of BS,BSD or both below the laboratory control limits

SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

PHASE SEPARATION SCIENCE, INC.

www.phaseonline.com
email: info@phaseonline.com

(1)
*CLIENT: Brightfield Inc. *OFFICE LOC. Wilmington, DE
*PROJECT MGR: Ken Hannon *PHONE NO.: (302) 656-9600
EMAIL: khannon@brightfieldsinc.com FAX NO.: (302) 656-9700
*PROJECT NAME: Chester River Hospital PROJECT NO. 311.01.02
SITE LOCATION Chestertown MD. P.O. NO.:
SAMPLER(S): M. Creskey DW CERT NO.:

PSS Work Order #: 1406060l PAGE 1 OF 1

Matrix Codes: **SW**=Surface Wtr **DW**=Drinking Wtr **GW**=Ground Wtr **WW**=Waste Wtr **O**=Oil **S**=Soil **L**=Liquid **SOL**=Solid **A**=Air **WI**=Wipe

(2)

LAB NO.	*SAMPLE IDENTIFICATION	*DATE (SAMPLED)	*TIME (SAMPLED)	MATRIX (See Codes)	No. CONTAINERS	SAMPLE TYPE C = COMP G = GRAB	Preservatives Used: None	Analysis/ Method Required (3) * TPH-DRO	REMARKS
	MW-48	6/4/14	0930	GW	1	G		X	
	MW-49	6/4/14	0955	GW	1	G		X	
	MW-50	6/4/14	1020	GW	1	G		X	

(5)

Relinquished By: (1)	Date	Time	Received By:
M Creskey	6/4/14	1645	FedEx
Relinquished By: (2)	Date	Time	Received By:
FedEx 8027-0669-11	6/6/14	9:35	[illegible]
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

(4)
*Requested TAT (One TAT per COC): ☐ 5-Day ☐ 3-Day ☐ 2-Day ☐ Next Day ☐ Emergency ☐ Other

Data Deliverables Required: COA ☐ QC SUMM ☐ CLP LIKE ☐ OTHER ____

Special Instructions:

DW COMPLIANCE? YES ☐ EDD FORMAT TYPE ____ STATE RESULTS REPORTED TO: MD ☐ DE ☐ PA ☐ VA ☐ WV ☐ OTHER ____

# of Coolers: 1
Custody Seal: ABS
Ice Present: Melt Temp: 18°C
Shipping Carrier: FedEx

6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723

The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary. * = REQUIRED

Phase Separation Science, Inc

Sample Receipt Checklist

Work Order #	14060601	**Received By**	Jacob Prucnal
Client Name	UMM Shore Regional Health at Ches	**Date Received**	06/06/2014 09:35:00 AM
Project Name	Chester River Hospital	**Delivered By**	Federal Express
Project Number	314.01.52	**Tracking No**	8027-0669-1139
Disposal Date	07/11/2014	**Logged In By**	Jacob Prucnal

Shipping Container(s)

No. of Coolers 1

		Ice	Melted
Custody Seal(s) Intact?	N/A	Temp (deg C)	18
Seal(s) Signed / Dated?	N/A	Temp Blank Present	No

Documentation

		Sampler Name	M. Creskey
COC agrees with sample labels?	Yes	MD DW Cert. No.	N/A
Chain of Custody	Yes		

Sample Container

		Custody Seal(s) Intact?	Not Applicable
Appropriate for Specified Analysis?	Yes	Seal(s) Signed / Dated	Not Applicable
Intact?	Yes		
Labeled and Labels Legible?	Yes		

Total No. of Samples Received 3

Total No. of Containers Received 3

Preservation

Metals	(pH<2)	N/A
Cyanides	(pH>12)	N/A
Sulfide	(pH>9)	N/A
TOC, COD, Phenols	(pH<2)	N/A
TOX, TKN, NH3, Total Phos	(pH<2)	N/A
VOC, BTEX (VOA Vials Rcvd Preserved)	(pH<2)	N/A
Do VOA vials have zero headspace?		N/A
624 VOC (Rcvd at least one unpreserved VOA vial)		N/A

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling. Samples which require thermal preservation shall be considered acceptable when received at a temperature above freezing to 6°C. Samples that are hand delivered on the day that they are collected may not meet these criteria but shall be considered acceptable if there is evidence that the chilling process has begun such as arrival on ice.

Sample(s) received at a temperature greater than 6 degrees C and ice was melted.

Samples Inspected/Checklist Completed By: Jacob Prucnal — Date: 06/06/2014

PM Review and Approval: Lynn Jackson — Date: 06/06/2014

APPENDIX B

WELL GAUGING & FIELD REPORTS

PETROLEUM PRODUCT / WATER - LEVEL DATA SHEET

Project #: 3111.01.52

PROJECT: **Chester River Hospital Center**
LOCATION: **Chestertown, Maryland**

DATE: May 20, 2014
WEATHER: Sunny 75F
COLLECTED BY: Ron Mortel
ENTERED BY: James Sines

Type product: Fuel oil
Petro correction factor: 0.80

Monitoring Point	Description of Measuring Point (ft msl)	Measuring Point Elevation (ft)	Product Depth (ft)	Water Depth (ft)	Product Thickness (ft)	Fluid Level Elevation (ft msl)	Corrected Water Elevation (ft msl)	Estimated Amount Product Recovered (gal) / NOTES:
MW-1	Lip of Casing	57.05		47.39		9.66	9.66	
MW-2	Lip of Casing	56.37		46.91		9.46	9.46	
MW-3	Lip of Casing	50.55		41.66		8.89	8.89	
MW-4	Lip of Casing	53.40		44.02		9.38	9.38	
MW-5	Lip of Casing	61.08		51.41		9.67	9.67	
MW-6	Lip of Casing	--------	--------	--------	--------	--------	--------	Well destroyed in building expansion Nov 2000
MW-7	Lip of Casing	--------	--------	--------	--------	--------	--------	Well destroyed in building expansion Nov 2000
MW-8	Lip of Casing	--------	--------	--------	--------	--------	--------	Well abandoned Aug. 2013
MW-9	Lip of Casing	46.10		39.23		6.87	6.87	
MW-10	Lip of Casing	--------	--------	--------	--------	--------	--------	Well abandoned Nov 2012
MW-10R	Lip of Casing	48.70		41.23		7.47	7.47	
MW-11	Lip of Casing	41.49		34.00		7.49	7.49	
MW-12	Lip of Casing	44.46		36.00		8.46	8.46	
MW-13	Lip of Casing	41.70		35.40		6.30	6.30	
MW-14	Lip of Casing	41.38		35.95		5.43	5.43	
MW-15	Lip of Casing	35.01		27.56		7.45	7.45	Sampled
MW-16	Lip of Casing	35.55		28.53		7.02	7.02	Sampled
MW-17	Lip of Casing	35.49		27.72		7.77	7.77	
MW-18	Lip of Casing	35.82		28.60		7.22	7.22	
MW-19	Lip of Casing	38.85		32.33		6.52	6.52	Sampled
MW-20	Lip of Casing	38.72		32.42		6.30	6.30	Sampled
MW-21	Lip of Casing	38.55		31.35		7.20	7.20	
MW-22	Lip of Casing	47.04	43.16	43.17	0.01	3.88	3.88	Sheen
MW-23	Lip of Casing	35.95		28.86		7.09	7.09	
MW-24	Lip of Casing	36.56		29.47		7.09	7.09	Sampled
MW-25	Lip of Casing	36.10	28.71	28.72	0.01	7.39	7.39	Sheen
MW-27	Lip of Casing	--------	--------	--------	--------	--------	--------	Well abandoned Nov 2006
MW-28	Lip of Casing	35.90		28.09		7.81	7.81	
MW-29	Lip of Casing	35.15		27.98		7.17	7.17	
MW-30	Lip of Casing	--------	--------	--------	--------	--------	--------	Well destroyed in building expansion Nov 2000
MW-31	Lip of Casing	--------	--------	--------	--------	--------	--------	Well abandoned Nov 2012
MW-31R	Lip of Casing	47.40		39.13		8.27	8.27	
MW-32	Lip of Casing	47.41		39.97		7.44	7.44	
MW-33	Lip of Casing	36.52	29.68	29.69	0.01	6.84	6.84	Sheen/Sampled
MW-34	Lip of Casing	36.64		29.81		6.83	6.83	Sampled
MW-35	Lip of Casing	38.62		31.67		6.95	6.95	Sampled
MW-37	Lip of Casing	50.54		41.54		9.00	9.00	
MW-38	Lip of Casing	--------	--------	--------	--------	--------	--------	pump stuck in well - not able to gauge
RW-1B	Lip of Casing	--------	--------	--------	--------	--------	--------	Well abandoned Sep. 2013
RW-2D	Lip of Casing	40.54		42.41		-1.87	-1.87	
RW-3B	Lip of Casing	39.45		40.47		-1.02	-1.02	
MW-40	Lip of Casing	48.69		41.68		7.01	7.01	
MW-41	Lip of Casing	42.92		36.84		6.08	6.08	
RW-4	Lip of Casing	48.15		44.10		4.05	4.05	
RW-5	Lip of Casing	43.34		42.25		1.09	1.09	
RW-6	Lip of Casing	47.22		46.34		0.88	0.88	
RW-2A	Lip of Casing	--------	--------	--------	--------	--------	--------	Well abandoned Mar 2008
RW-2B	Lip of Casing	--------	--------	--------	--------	--------	--------	Well abandoned Mar 2008
MP-2B	Lip of Casing			33.83				
RW-2C	Lip of Casing	--------	--------	--------	--------	--------	--------	Well abandoned Sep 2003
RW-3A	Lip of Casing	--------	--------	--------	--------	--------	--------	Well abandoned Sep 2003
MP-3A	Lip of Casing			33.94				
MW-42	Lip of Casing	46.15		39.14		7.01	7.01	
MW-43	Lip of Casing	47.90		41.19		6.71	6.71	
MW-44	Lip of Casing	47.20		39.43		7.77	7.77	
MW-45	Lip of Casing	40.91		33.93		6.98	6.98	
MW-46	Lip of Casing	41.08		35.25		5.83	5.83	
MW-47	Lip of Casing	40.74				--------	--------	under construction equipment - not gauged
MW-48	Lip of Casing	36.22		29.07		7.15	7.15	Sampled
MW-49	Lip of Casing	35.49		28.29		7.20	7.20	Sampled
MW-50	Lip of Casing	35.64		28.59		7.05	7.05	Sampled
IW-1	Lip of Casing	--------				--------	--------	not gauged no access

Project Name:	**Chester River Hospital Center**	Date:	Wednesday, May 21, 2014 Tuesday, May 20, 2014
Project #:		Time on - site:	8:30 AM
Location:	**Chestertown, Maryland**	Weather:	Light Rain, 60ºF, Light S/W Winds
Personnel present at site:	MC/RCM	Vehicle:	2

Reason for site visit:	yes	no
Surveying	☐	☑
Monitoring	☐	☑
Sampling	☑	☐
Other	☐	☑
Recovery system maintenance	☑	☐
Recovery system repair	☐	☑

Scheduled Activities	Checklist	yes	no	n/a	Exceptions (with explanation and comments)
Routine Monitoring	Measured water & petroleum levels	☑	☐	☐	
	Pumped petroleum from wells	☐	☑	☐	
	Emptied petro trap	☐	☑	☐	
	Installed, replaced, or inspected wics	☐	☑	☐	
	Measured and recorded system data	☑	☐	☐	
	Surveyed well elevations	☐	☑	☐	
	Inspected system discharge at storm drain	☑	☐	☐	
Sampling	Groundwater sampling(note which wells were sampled on petro form)	☑	☐	☐	
	Petroleum sampling(note which wells were sampled on petro form)	☐	☑	☐	
	Soil sampling	☐	☑	☐	
	Vapor system sampling	☐	☑	☐	
	Collected sample(s) in lab bottle(s) & chilled	☑	☐	☐	
	Filled out labels and chain-of-custody	☑	☐	☐	
Other Activities	Recorded amount recovered	☐	☑	☐	
	Completed site sketch	☐	☑	☐	
	Recovery system repair	☐	☑	☐	
	Completed materials and equipment form	☐	☑	☐	

Operation & Maintenance	Bag Filter Changed	yes	no	n/a	Before PSI	After PSI	Comments
Bag Filters	BF-1 (Secondary (25 micron bag)	☑	☐	☐	~12	6	Minor iron and biological fouling
	BF-2 (Primary - 50 micron bag)	☑	☐	☐	~13	6.5	Moderate iron and biological fouling
	BF-3 (Secondary (25 micron bag)	☑	☐	☐	~12	5.5	Minor iron and biological fouling
	BF-4 (Primary - 50 micron bag)	☑	☐	☐	~14	7	Moderate iron and biological fouling

Recovery Wells	Actively Pumping	yes	no	n/a	DTW	DTP	GPM	**Totalizer**	Comments
	RW-2D	☑	☐	☐	42.41	N/A	19.46	9540438	
	RW-3B	☑	☐	☐	40.47	N/A	20.95	9204670	
	RW-4	☑	☐	☐	44.1	N/A	7.02	61320072	
	RW-5	☑	☐	☐	42.25	N/A	5.93	6932813	
	RW-6	☑	☐	☐	46.34	N/A	25.55	22534738	
	MW-22	☑	☐	☐	43.16	N/A	9.32	1125506	

Site Visit Summary

Mycelx filters checked for oril and biological fouling. Three filters in housing M-1 were broken and were replaced with three used filters. The remaining filters in M-1 were iron moderately iron fouled and contained moderate biological material. The Mycelx filters in housing M-2 were also iron fouled and also contained biological material although not as bad as M-1.

All of the pressure guages found on bag filter housings 1, 2, 3, 4, as well as the Mycelx housings were rusted and two had water in the guage housing, the accuracy of the readings is suspect.

The Pressure on the Mycelx filter housings were both ~2.0 before and after the check and cartridge replacement in M-1.

The Bypass from the bag filters to the Mycelx filters was 50% open upon arrival. This valve is now closed to achieve true bag filter pressures.