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July 25, 2016

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

Subject: Chester River Hospital Center – 2016 Second Quarter Monitoring Report

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 second quarter monitoring report for period of April 1st through June 30th. Monitoring activities were performed in accordance with MDE's "Approval for Revised 2015 Action Plan" letter dated July 22, 2015.

EBA has reviewed the site data collected by BrightFields, Inc. and laboratory results performed by Phase Separation Science Inc. (PSS). A summary of these activities are presented below.

- April Monthly Monitoring
  - Gauging of all monitoring and recovery wells.
  - Sampling of all monitoring and recovery wells for the presence of Total Petroleum Hydrocarbons - Diesel Range Organics (TPH-DRO) using EPA Method 8015, Volatile Organic Compounds (VOCs), including oxygenates, using EPA Method 8260B, and Surfactants using EPA Method 5540D.

- May Monthly Monitoring
  - 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 using EPA Method 8015.
  - Sampling of monitoring wells MW-1, MW-2, MW-4, MW-9, MW-10R, MW-11, MW-41, MW-42, MW-43, MW-45, and MW-47 for the presence of Total Petroleum Hydrocarbons - Diesel Range Organics using EPA Method 8015 and Nonionic Surfactant using EPA SM5540D.

- June Monthly Monitoring
    - 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 using EPA Method 8015.
    - Sampling of monitoring wells MW-5, MW-13, MW-32, and MW-46 for the presence of Total Petroleum Hydrocarbons - Diesel Range Organics using EPA Method 8015 and Nonionic Surfactant using EPA SM5540D.

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 Maps for April, May, and June
- Figure 2 – Water Quality Maps of TPH-DRO for April, May, and June
- Figure 3 – Water Quality Map of Benzene, Tolulene, Ethylbenzene, Xylenes (BTEX), and Naphthalene for April
- Figure 4 – Water Surfactant Map for April, May, and June
- Appendix A – Laboratory Analytical Reports for April, May, and June
- Appendix B – Well Gauging & Field Reports for April, May, and June

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 map, **Figure 1**, shows a depression in the upper parking lot (source area) created by groundwater recovery/containment system. However, May's contour map does not show this depression. Further investigation of the O&M logs showed no issues with the groundwater recovery/containment system. In reviewing the gauging data, groundwater elevation rose more than 0.5' between April and May's gauging event. Based upon the sudden increase in groundwater elevation and its associated increased water volume, the absence of the depression was temporary. June's water contour map shows the presence of the depression and similar groundwater elevation in comparison to May's. The system has remained in service throughout the second quarter.

With respect to the eleven 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), the results of laboratory analyses for TPH-DRO, the primary constituent of concern, was present at MW-20 during April, May, and June's monthly monitoring event at 7.0 mg/L, 6.5 mg/L, and 1.7 mg/L respectively. In addition, TPH-DRO was present at or near laboratory reporting limits for MW-24 at 0.13 mg/L, MW-35 at 0.10 mg/L, MW-49 at 0.10, and MW-50 at 0.12 mg/L during May's monthly monitoring event. The remaining seven targeted wells were

below laboratory detection limits during all three monthly monitoring events. Site maps showing concentrations of TPH-DRO is included in **Figure 2**. Laboratory results are included in **Appendix A.**

With respect to the eleven targeted monitoring wells, the results of laboratory analysis for Benzene, Toluene, Ethylbenzene, Xylenes, and Naphthalene were below laboratory detection limits. Site maps showing concentrations of Benzene, Toluene, Ethylbenzene, Xylenes, and Naphthalene is included in **Figure 3**. Laboratory results are included in **Appendix A.**

In reviewing all monitoring and recovery wells, the results of laboratory analysis shows detectable levels of TPH-DRO are present at the site. The locations of monitoring wells with detectable levels of TPH-DRO, with the exception of MW-20, MW-24, MW-35, MW-49, and MW-50 are north of Brown Street. MW-20 showed concentrations of TPH-DRO at 7.0 mg/L, 6.5 mg/L, and 1.7 mg/L during April's, May's, and June's monitoring event respectively. MW-20 is located south of Brown Street but still within the area of hydraulic control imposed by the pump and treat system. MW-24 showed concentrations of TPH-DRO at 0.13 mg/L during May's monitoring event. Since March 2015, MW-24 results were <0.1 mg/L. MW-35 showed concentrations of TPH-DRO at 0.10 mg/L during May's monitoring event. Since June 2013, MW-35 results were <0.1 mg/L. MW-49 showed concentrations of TPH-DRO at 0.10 mg/L during May's monitoring event. Since August 2013, MW-49 results were <0.1 mg/L. MW-50 showed concentrations of TPH-DRO at 0.12 mg/L during May's monitoring event. Since January 2016, MW-50 results were <0.1 mg/L. These low level concentrations and isolated detections do not support the ongoing presence of TPH-DRO in MW-24, MW-35, MW-49, and MW-50. Site maps showing concentrations of TPH-DRO is included in **Figure 2**. Laboratory results are included in **Appendix A.**

In reviewing all monitoring and recovery wells, the results of laboratory analysis shows the detectable levels of Benzene, Ethylbenzene, Xylenes present at the site are below MDE's Groundwater Cleanup Standards. In addition, the results show detectable levels of Naphthalene. Monitoring wells with detectable levels of Benzene, Ethylbenzene, Xylene, and Naphthalene, are north of Brown Street. Site maps showing concentrations of Benzene, Toluene, Ethylbenzene, Xylenes, and Naphthalene is included in **Figure 3**. Laboratory results are included in **Appendix A.**

Gauging of monitoring and recovery wells was performed on multiple occasions from April through June. None of the monitoring and recovery wells showed a measurable thickness (>0.01') of liquid phase hydrocarbons during gauging activities. Well gauging and field reports are included in **Appendix B**.

Residual surfactant remains at MW-2, MW-4, MW-9, MW-11, MW-13, MW-20, MW-41, MW-43, MW-45, MW-46, and MW-47. These wells are located north of Brown Street with the exception of MW-20. These wells will continue to be sampled for the presence of surfactant until surfactant results are below laboratory detection limits. Site map

showing concentrations of surfactant is included in **Figure 4**. Laboratory results are included in **Appendix A.**

In reviewing the laboratory results and gauging data from the second quarter of 2016, the following generalizations can be made:

1) The groundwater recovery/containment system has maintained hydraulic control within the upper parking lot (source area) and portions of the lower parking lot.
2) The presence of TPH-DRO, Benzene, Ethylbenzene, Xylene, and Naphthalene detected within monitoring wells are located within the limits of Chester River Hospital Center.
3) All of the detectable levels for Benzene, Ethylbenzene, and Xylenes were below MDE's Groundwater Cleanup Standard.
4) Seven of the eleven targeted monitoring wells sampled on a monthly basis were below laboratory detection limits for TPH-DRO.
5) The presence of residual surfactant continues to decrease.

Implementation of the 2016 Subsurface Investigation Work Plan occurred during the second quarter which included the installation of MW-51, MW-52, MW-53, MW-54, MW-55, and MW-56. The results of the 2016 Subsurface Investigation Work Plan is currently being drafted and will be provided under separate cover. CHRC has continued operating the pump and treat system and monitoring activities in accordance with MDE's directive.

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
Department Manager

Amar Sokhey, P.E., F.ASCE
Associate

Attachments:

cc: Mr. Ken Kozel (Shore Regional Health)
Mr. Dane Bauer (H&B 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)	Surfactant (mg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-1	5-Jun-12	57.05	47.38	9.67	<1	<1	<1	<2	<2	<1	**3.1**	NS	<1	NS
	6-Sep-12	57.05	46.01	11.04	<1	<1	<1	<2	<2	<1	**16**	NS	<1	NS
	4-Dec-12	57.05	46.12	10.93	<1	<1	<1	<2	<2	<1	**11**	<0.1	<1	NS
	4-Mar-13	57.05	45.95	11.10	<1	<1	<1	<2	<2	<1	**1.5**	<0.1	<1	NS
	4-Jun-13	57.05	45.70	11.35	<1	<1	<1	<2	<2	<1	**3.0**	<0.1	<1	NS
	30-Jan-14	57.05	47.96	9.09	<1	<1	<1	<2	<2	<1	**62**	NS	<1	NS
	28-Apr-14	57.05	47.60	9.45	<1	<1	<1	<2	<2	<1	**5.4**	NS	<1	NS
	24-Oct-14	57.05	46.39	10.66	<1	<1	<1	<2	<2	<1	**1.2**	NS	<1	NS
	23-Jan-15	57.05	45.42	11.63	<1	<1	<1	<2	<2	<1	**10**	<0.1	<1	NS
	24-Apr-15	57.05	45.85	11.20	<1	<1	<1	<2	<2	<1	**2.7**	<0.1	<1	NS
	30-Jul-15	57.05	45.41	11.64	<1	<1	<1	<2	<2	<1	**2.0**	<0.1	<1	NS
	21-Sep-15	57.05	46.08	10.97	NS	NS	NS	NS	NS	NS	**1.7**	NS	NS	NS
	5-Oct-15	57.05	46.21	10.84	NS	NS	NS	NS	NS	NS	**0.62**	NS	NS	NS
	19-Oct-15	57.05	46.38	10.67	<5	<5	<5	<10	<10	<5	**0.51**	NS	<5	NS
	7-Jan-16	57.05	46.57	10.48	<1	<1	<1	<2	<2	<1	**2.1**	NS	<1	NS
	23-Feb-16	57.05	46.98	10.07	NS	NS	NS	NS	NS	NS	**1.0**	NS	NS	NS
	22-Apr-16	57.05	46.46	10.59	<1	<1	<1	<2	<2	<1	**3.6**	NS	<1	7.6
	24-May-16	57.05	46.03	11.02	NS	NS	NS	NS	NS	NS	**2.3**	NS	NS	<1.4

NS - Not Sampled

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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)	Surfactant (mg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-2	12-Jun-12	56.37	46.94	9.43	<1	<1	<1	<2	<2	<1	**6.6**	NS	**1.2**	NS
	6-Sep-12	56.37	45.45	10.92	<1	<1	<1	<2	<2	<1	**7.7**	NS	<1	NS
	4-Dec-12	56.37	45.55	10.82	<1	<1	<1	<2	<2	<1	**20**	<0.1	**8**	NS
	4-Mar-13	56.37	45.36	11.01	<1	<1	<1	<2	<2	<1	**28**	**0.44**	**5.9**	NS
	4-Jun-13	56.37	45.12	11.25	<1	<1	<1	<2	<2	<1	**15**	<0.1	<1	NS
	30-Jan-14	56.37	47.47	8.90	<1	<1	<1	<2	<2	<1	**21**	NS	**4.6**	NS
	28-Apr-14	56.37	47.15	9.22	<1	<1	<1	<2	<2	<1	**12**	NS	**2.2**	NS
	23-Jul-14	56.37	44.93	11.44	<1	<1	<1	<2	<2	<1	**3.3**	NS	<1	NS
	24-Oct-14	56.37	45.88	10.49	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	23-Jan-15	56.37	44.90	11.47	<1	<1	<1	<2	<2	<1	**13**	<0.1	<1	NS
	24-Apr-15	56.37	45.36	11.01	<1	<1	<1	<2	<2	<1	**12**	<0.1	<1	NS
	30-Jul-15	56.37	44.88	11.49	<1	<1	<1	<2	<2	<1	**1.4**	<0.1	<1	NS
	21-Sep-15	56.37	45.61	10.76	NS	NS	NS	NS	NS	NS	**1.9**	NS	NS	NS
	5-Oct-15	56.37	45.75	10.62	NS	NS	NS	NS	NS	NS	**5.6**	NS	NS	NS
	19-Oct-15	56.37	45.91	10.46	<5	<5	<5	<10	<10	<5	**0.63**	NS	<5	NS
	7-Jan-16	56.37	46.08	10.29	<1	<1	<1	<2	<2	<1	**3.1**	NS	<1	NS
	23-Feb-16	56.37	46.51	9.86	NS	NS	NS	NS	NS	NS	**0.94**	NS	NS	NS
	22-Apr-16	56.37	45.94	10.43	<1	<1	<1	<2	<2	<1	**3.8**	NS	<1	9.65
	24-May-16	56.37	45.47	10.90	NS	NS	NS	NS	NS	NS	**3.5**	NS	NS	7.20

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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)	Surfactant (mg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-3	5-Jun-12	50.55	41.82	8.73	<1	<1	<1	<2	<2	<1	**100**	NS	**4.1**	NS
	6-Sep-12	50.55	39.87	10.68	<1	<1	<1	<2	<2	<1	**0.61**	NS	**2.7**	NS
	4-Dec-12	50.55	39.92	10.63	<1	<1	<1	<1	<1	<1	**2.6**	<0.1	**2.8**	NS
	4-Mar-13	50.55	39.75	10.80	<1	<1	<1	<1	<1	<1	**0.48**	<0.1	**2.5**	NS
	4-Jun-13	50.55	39.50	11.05	<1	<1	<1	<2	<2	<1	**0.34**	<0.1	<1	NS
	30-Jan-14	50.55	42.00	8.55	<1	<1	<1	<2	<2	<1	**12**	NS	**2.3**	NS
	28-Apr-14	50.55	41.90	8.65	<1	<1	<1	<2	<2	<1	**2.2**	NS	**1.4**	NS
	23-Jul-14	50.55	39.33	11.22	<1	<1	<1	<2	<2	<1	**0.27**	NS	<1	NS
	24-Oct-14	50.55	40.63	9.92	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	23-Jan-15	50.55	39.42	11.13	<1	<1	<1	<2	<2	<1	**1.3**	<0.1	<1	NS
	24-Apr-15	50.55	40.09	10.46	<1	<1	<1	<2	<2	<1	**0.26**	<0.1	<1	NS
	30-Jul-15	50.55	39.55	11.00	<1	<1	<1	<2	<2	<1	**0.1**	<0.1	<1	NS
	21-Sep-15	50.55	40.20	10.35	NS	NS	NS	NS	NS	NS	**0.81**	NS	NS	NS
	5-Oct-15	50.55	40.47	10.08	NS	NS	NS	NS	NS	NS	**2.0**	NS	NS	NS
	19-Oct-15	50.55	40.63	9.92	<5	<5	<5	<10	<10	<5	**0.77**	NS	<5	NS
	7-Jan-16	50.55	40.72	9.83	<1	<1	<1	<2	<2	<1	**2.3**	NS	<1	NS
	23-Feb-16	50.55	41.18	9.37	NS	NS	NS	NS	NS	NS	**0.48**	NS	NS	NS
	22-Apr-16	50.55	40.79	9.76	<1	<1	<1	<2	<2	<1	**3.8**	NS	<1	<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)	Surfactant (mg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-4	5-Jun-12	53.40	44.10	9.30	<1	<1	<1	<2	<2	<1	0.1	NS	<1	NS
	5-Sep-12	53.40	42.55	10.85	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	4-Dec-12	53.40	42.64	10.76	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	4-Mar-13	53.40	42.47	10.93	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	4-Jun-13	53.40	42.22	11.18	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	30-Jan-14	53.40	44.51	8.89	<1	<1	<1	<2	<2	<1	**11**	NS	<1	NS
	28-Apr-14	53.40	44.23	9.17	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	23-Jul-14	53.40	41.98	11.42	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	24-Oct-14	53.40	42.98	10.42	<1	<1	<1	<2	<2	<1	**0.15**	NS	<1	NS
	23-Jan-15	53.40	41.92	11.48	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	24-Apr-15	53.40	42.51	10.89	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	30-Jul-15	53.40	42.01	11.39	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	21-Sep-15	53.40	42.69	10.71	NS	NS	NS	NS	NS	NS	**1.0**	NS	NS	NS
	5-Oct-15	53.40	42.88	10.52	NS	NS	NS	NS	NS	NS	**0.85**	NS	NS	NS
	19-Oct-15	53.40	43.05	10.35	<5	<5	<5	<10	<10	<5	**0.53**	NS	<5	NS
	7-Jan-16	53.40	43.15	10.25	<1	<1	<1	<2	<2	<1	**0.85**	NS	<1	NS
	23-Feb-16	53.40	43.58	9.82	NS	NS	NS	NS	NS	NS	**1.2**	NS	NS	NS
	22-Apr-16	53.40	43.02	10.38	<1	<1	<1	<2	<2	<1	**5.4**	NS	<1	15.2
	24-May-16	53.40	42.59	10.81	NS	NS	NS	NS	NS	NS	**9.5**	NS	NS	11.1

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)	Surfactant (mg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-5	5-Jun-12	61.08	51.42	9.66	<1	<1	<1	<2	<2	<1	**1.2**	NS	<1	NS
	6-Sep-12	61.08	50.01	11.07	<1	<1	<1	<2	<2	<1	**1.9**	NS	<1	NS
	4-Dec-12	61.08	50.12	10.96	<1	<1	<1	<2	<2	<1	**0.38**	<0.1	<1	NS
	4-Mar-13	61.08	49.93	11.15	<1	<1	<1	<2	<2	<1	**1.5**	<0.1	<1	NS
	4-Jun-13	61.08	49.68	11.40	<1	<1	<1	<2	<2	<1	**1.6**	<01	<1	NS
	30-Jan-14	61.08	51.93	9.15	<1	<1	<1	<2	<2	<1	**36**	NS	<1	NS
	28-Apr-14	61.08	51.62	9.46	<1	<1	<1	<2	<2	<1	**3.2**	NS	<1	NS
	24-Jul-14	61.08	49.46	11.62	<1	<1	<1	<2	<2	<1	**0.34**	NS	<1	NS
	24-Oct-14	61.08	50.41	10.67	<1	<1	<1	<2	<2	<1	**2.7**	NS	<1	NS
	23-Jan-15	61.08	49.42	11.66	<1	<1	<1	<2	<2	<1	**1.4**	<0.1	<1	NS
	24-Apr-15	61.08	49.89	11.19	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	30-Jul-15	61.08	49.40	11.68	<1	<1	<1	<2	<2	<1	**0.32**	<0.1	<1	NS
	21-Sep-15	61.08	50.05	11.03	NS	NS	NS	NS	NS	NS	**0.65**	NS	NS	NS
	5-Oct-15	61.08	50.23	10.85	NS	NS	NS	NS	NS	NS	**1.6**	NS	NS	NS
	19-Oct-15	61.08	50.41	10.67	<5	<5	<5	<10	<10	<5	**0.53**	NS	<5	NS
	7-Jan-16	61.08	50.60	10.48	<1	<1	<1	<2	<2	<1	**2.8**	NS	<1	NS
	23-Feb-16	61.08	51.04	10.04	NS	NS	NS	NS	NS	NS	**0.90**	NS	NS	NS
	22-Apr-16	61.08	50.51	10.57	<1	<1	<1	<2	<2	<1	**3.2**	NS	<1	2.16
	22-Jun-16	61.08	50.11	10.97	NS	NS	NS	NS	NS	NS	**0.62**	NS	NS	<1.4

NS - Not Sampled

Table 1 - Groundwater Monitoring Wells - Historic Data Summary
Chester River Hospital Center
100 Brown Street
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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)	Surfactant (mg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**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**	NS
	6-Sep-12	46.95	36.99	9.96	<1	<1	<1	<2	<2	<1	**1.1**	NS	<1	NS
	4-Dec-12	46.10	36.18	9.92	<1	<1	<1	<2	<2	<1	**0.64**	<0.1	<1	NS
	4-Mar-13	46.10	35.98	10.12	<1	<1	<1	<2	<2	<1	**0.47**	<0.1	<1	NS
	4-Jun-13	46.10	35.72	10.38	<1	<1	<1	<2	<2	<1	**0.6**	<0.1	<1	NS
	30-Jan-14	46.10	39.47	6.63	<1	<1	<1	<2	<2	<1	**5.9**	NS	**1.5**	NS
	28-Apr-14	46.10	39.55	6.55	1.7	<1	1.7	<2	1.7	<1	**0.89**	NS	**3.2**	NS
	24-Jul-14	46.10	35.73	10.37	<1	<1	<1	<2	<2	<1	**1.4**	NS	**4.5**	NS
	24-Oct-14	46.60	38.60	8.00	<1	<1	<1	<2	<2	<1	**1.2**	NS	**1.5**	NS
	22-Jan-15	46.60	37.04	9.56	<1	<1	<1	<2	<2	<1	**2.3**	<0.1	**2.4**	NS
	24-Apr-15	46.60	37.31	9.29	<1	<1	<1	<2	<2	<1	**3.1**	<0.1	**3.2**	NS
	30-Jul-15	46.60	37.41	9.19	<1	<1	<1	<2	<2	<1	**0.26**	<0.1	**5.1**	NS
	21-Oct-15	46.60	38.60	8.00	<1	<1	<1	<2	<2	<1	**2.3**	NS	**2.8**	NS
	5-Jan-16	46.60	38.16	8.44	<1	<1	<1	<2	<2	<1	**7.4**	NS	**5.6**	NS
	23-Feb-16	-	-	-	NS	NS	NS	NS	NS	NS	**0.45**	NS	NS	NS
	22-Apr-16	46.60	38.56	8.04	<1	<1	<1	<2	<2	<1	**4.0**	NS	**1.9**	13.4
	25-May-16	46.60	37.03	9.57	NS	NS	NS	NS	NS	NS	**4.8**	NS	NS	11.0

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Table 1 - Groundwater Monitoring Wells - Historic Data Summary
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100 Brown Street
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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)	Surfactant (mg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-10R	4-Dec-12	48.81	36.90	11.91	<1	<1	<1	<2	<2	<1	**0.15**	<0.1	<1	NS
	4-Mar-13	48.81	38.62	10.19	<1	<1	<1	<2	<2	<1	**0.15**	<0.1	<1	NS
	3-Jun-13	48.70	38.23	10.47	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	30-Jan-14	48.70	41.86	6.84	<1	<1	<1	<2	<2	<1	**11**	NS	<1	NS
	28-Apr-14	48.70	41.49	7.21	<1	<1	<1	<2	<2	<1	<0.1	NS	**1.3**	NS
	29-Jul-14	48.70	38.16	10.54	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	1.57
	15-Aug-14	48.70	38.88	9.82	<1	<1	<1	<2	<2	<1	**0.87**	<0.1	**1.2**	<1.4
	19-Sep-14	48.70	38.93	9.77	<1	<1	<1	<2	<2	<1	**0.88**	<0.1	**2.3**	<1.4
	24-Oct-14	48.70	40.09	8.61	<1	<1	<1	<2	<2	<1	**0.2**	<0.1	<1	<1.4
	20-Nov-14	48.70	39.30	9.40	<1	<1	<1	<2	<2	<1	**0.35**	<0.1	<1	<1.4
	23-Jan-15	48.70	38.71	9.99	<1	<1	<1	<2	<2	<1	**0.37**	<0.1	**1.9**	NS
	24-Apr-15	48.70	39.50	9.20	<1	<1	<1	<2	<2	<1	**0.12**	<0.1	<1	NS
	30-Jul-15	48.70	38.99	9.71	<1	<1	<1	<2	<2	<1	**2.5**	<0.1	**1.7**	NS
	21-Oct-15	48.70	40.25	8.45	<1	<1	<1	<2	<2	<1	**0.16**	NS	<1	NS
	7-Jan-16	48.70	40.61	8.09	<1	<1	<1	<2	<2	<1	**1.2**	NS	<1	NS
	23-Feb-16	48.70	41.36	7.34	NS	NS	NS	NS	NS	NS	**1.9**	NS	NS	NS
	22-Apr-16	48.70	40.65	8.05	<1	<1	<1	<2	<2	<1	**5.1**	NS	<1	8.52
	25-May-16	48.70	39.11	9.59	NS	NS	NS	NS	NS	NS	**2.0**	NS	NS	<1.4

NS - Not Sampled

Table 1 - Groundwater Monitoring Wells - Historic Data Summary
Chester River Hospital Center
100 Brown Street
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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)	Surfactant (mg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-11	5-Jun-12	41.49	33.85	7.64	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	5-Sep-12	41.49	31.97	9.52	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	4-Dec-12	41.49	31.98	9.51	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	4-Mar-13	41.49	31.76	9.73	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	4-Jun-13	41.49	31.52	9.97	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	30-Jan-14	41.49	34.86	6.63	<1	<1	<1	<2	<2	<1	**12**	NS	<1	NS
	28-Apr-14	41.49	34.28	7.21	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	24-Jul-14	41.49	31.38	10.11	<1	<1	<1	<2	<2	<1	**0.38**	NS	<1	NS
	24-Oct-14	41.49	32.81	8.68	<1	<1	<1	<2	<2	<1	**0.15**	NS	<1	NS
	23-Jan-15	41.49	31.53	9.96	<1	<1	<1	<2	<2	<1	**0.13**	<0.1	<1	NS
	23-Apr-15	41.49	32.41	9.08	<1	<1	<1	<2	<2	<1	**0.12**	<0.1	<1	NS
	30-Jul-15	41.49	31.92	9.57	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	21-Oct-15	41.49	33.07	8.42	<1	<1	<1	<2	<2	<1	<0.11	NS	<1	NS
	7-Jan-16	41.49	33.11	8.38	<1	<1	<1	<2	<2	<1	**3.0**	NS	<1	NS
	23-Feb-16	41.49	33.80	7.69	NS	NS	NS	NS	NS	NS	**2.0**	NS	NS	NS
	22-Apr-16	41.49	33.10	8.39	<1	<1	<1	<2	<2	<1	**3.8**	NS	<1	28.4
	25-May-16	41.49	32.18	9.31	NS	NS	NS	NS	NS	NS	**5.0**	NS	NS	26.8

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Table 1 - Groundwater Monitoring Wells - Historic Data Summary
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100 Brown Street
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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)	Surfactant (mg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-12	5-Jun-12	44.46	36.85	7.61	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	5-Sep-12	44.46	34.52	9.94	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	4-Dec-12	44.46	34.53	9.93	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	4-Mar-13	44.46	34.35	10.11	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	4-Jun-13	44.46	34.08	10.38	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	1-Feb-14	44.46	37.00	7.46	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	28-Apr-14	44.46	36.68	7.78	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	23-Jul-14	44.46	33.98	10.48	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	24-Oct-14	44.46	35.62	8.84	<1	<1	<1	<2	<2	<1	**0.38**	NS	<1	NS
	23-Jan-15	44.46	34.20	10.26	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	23-Apr-15	44.46	35.13	9.33	<1	<1	<1	<2	<2	<1	**0.17**	<0.1	<1	NS
	30-Jul-15	44.46	34.55	9.91	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	20-Oct-15	44.46	35.70	8.76	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	7-Jan-16	44.46	35.61	8.85	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	21-Apr-16	44.46	35.54	8.92	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	<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)	Surfactant (mg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-13	6-Jun-12	41.70	34.94	6.76	<1	<1	<1	<2	<2	<1	**3.8**	NS	**1.2**	NS
	6-Sep-12	41.70	32.43	9.27	<1	<1	<1	<2	<2	<1	**0.86**	NS	**1.1**	NS
	4-Dec-12	41.70	32.41	9.29	<1	<1	<1	<2	<2	<1	**1**	<0.1	<1	NS
	4-Mar-13	41.70	32.21	9.49	<1	<1	<1	<2	<2	<1	**9.5**	<0.1	<1	NS
	4-Jun-13	41.70	31.92	9.78	<1	<1	<1	<2	<2	<1	**33**	<0.1	<1	NS
	30-Jan-14	41.70	36.15	5.55	<1	<1	<1	<2	<2	<1	**7.7**	NS	<1	NS
	28-Apr-14	41.70	35.67	6.03	<1	<1	<1	<2	<2	<1	**0.35**	NS	<1	NS
	29-Jul-14	41.70	31.82	9.88	<1	<1	<1	<2	<2	<1	**0.46**	<0.1	<1	<1.4
	14-Aug-14	41.70	32.77	8.93	<1	<1	<1	<2	<2	<1	**0.54**	<0.1	<1	<1.4
	19-Sep-14	41.70	32.90	8.80	<1	<1	<1	<2	<2	<1	**2.1**	<0.1	<1	<1.4
	19-Nov-14	41.70	33.16	8.54	<1	<1	<1	<2	<2	<1	**0.42**	<0.1	<1	<1.4
	23-Apr-15	41.70	33.78	7.92	<1	<1	<1	<2	<2	<1	**0.63**	<0.1	<1	NS
	30-Jul-15	41.70	33.23	8.47	<1	<1	<1	<2	<2	<1	**0.22**	<0.1	<1	NS
	21-Oct-15	41.70	34.45	7.25	<1	<1	<1	<2	<2	<1	**0.13**	NS	<1	NS
	7-Jan-16	41.70	34.31	7.39	<1	<1	<1	<2	<2	<1	**1.4**	NS	**1.1**	NS
	23-Feb-16	41.70	35.13	6.57	NS	NS	NS	NS	NS	NS	**1.2**	NS	NS	NS
	22-Apr-16	41.70	34.34	7.36	<1	<1	<1	<2	<2	<1	**4.7**	NS	<1	53.8
	22-Jun-16	41.70	33.89	7.81	NS	NS	NS	NS	NS	NS	**4.2**	NS	NS	28.9

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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)	Surfactant (mg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-14	6-Jun-12	41.38	35.44	5.94	1.2	<1	19	3.1	24.3	<1	**17**	NS	**210**	NS
	6-Sep-12	41.38	32.04	9.34	<1	<1	<1	<2	<2	<1	**180**	NS	**6.3**	NS
	4-Dec-12	41.38	32.04	9.34	**6.2**	<1	31	104	141.2	<1	**9700**	**4.7**	**250**	NS
	4-Mar-13	41.38	31.81	9.57	<1	<1	5.2	<2	5.2	<1	**92**	**0.24**	**40**	NS
	4-Jun-13	41.38	31.32	10.06	<1	<1	<1	<2	<2	<1	**410**	<0.1	**3.6**	NS
	30-Jan-14	41.38	36.74	4.64	2.9	<1	40	8	<2	<1	**21**	NS	**110**	NS
	28-Apr-14	41.38	36.33	5.05	2.5	<1	39	9.3	50.8	<1	**1.5**	NS	**110**	NS
	29-Jul-14	41.38	31.52	9.86	<1	<1	<1	<2	<2	<1	**9.8**	<0.1	**8.8**	<1.4
	14-Aug-14	41.38	33.12	8.26	<1	<1	9.0	<2	9	<1	**23**	**0.17**	**81**	<1.4
	19-Sep-14	41.38	34.06	7.32	1.3	<1	22	3.1	26.4	<1	**210**	**0.39**	**140**	<1.4
	24-Oct-14				<1	<1	3.0	<2	3	<1	**38**	**0.13**	**24**	<1.4
	19-Nov-14	41.38	32.04	9.34	<1	<1	<1	<2	<2	<1	**42**	**0.2**	**13**	<1.4
	23-Jan-15	41.38	33.60	7.78	<1	<1	<1	<2	<2	<1	**130**	<0.1	**12**	NS
	23-Apr-15	41.38	34.30	7.08	<1	<1	10	<2	10	<1	**19**	**0.26**	**59**	NS
	30-Jul-15	41.38	33.75	7.63	<1	<1	6.6	<2	6.6	<1	**89**	**0.19**	**54**	NS
	21-Sep-15	41.38	34.91	6.47	NS	NS	NS	NS	NS	NS	**2.3**	NS	NS	NS
	5-Oct-15	41.38	34.93	6.45	NS	NS	NS	NS	NS	NS	**22**	NS	NS	NS
	19-Oct-15	41.38	35.04	6.34	<5	<5	26	<10	26	<5	**3.3**	NS	**170**	NS
	5-Jan-16	41.38	34.79	6.59	1.2	<1.0	30	7.0	38.2	<1.0	**2.8**	NS	**170**	NS
	23-Feb-16	41.38	35.33	6.05	NS	NS	NS	NS	NS	NS	**0.91**	NS	NS	NS
	22-Apr-16	41.38	34.84	6.54	<1	<1	1.3	<2	1.3	<1	**0.97**	NS	**10**	<1.4

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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)	Surfactant (mg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-15	5-Jun-12	35.01	27.73	7.28	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	5-Sep-12	35.01	26.70	8.31	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	1-Oct-12	35.01	26.79	8.22	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	5-Nov-12	35.01	26.82	8.19	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	4-Dec-12	35.01	26.63	8.38	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	4-Mar-13	35.01	26.35	8.66	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	6-May-13	35.01	26.20	8.81	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	4-Jun-13	35.01	26.14	8.87	<1	<1	<1	<2	<2	<1	**1.5**	<0.1	<1	NS
	17-Jun-13	35.01	26.70	8.31	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	24-Jul-13	35.01	27.97	7.04	NS	NS	NS	NS	NS	NS	**0.11**	NS	NS	NS
	21-Aug-13	35.01	28.22	6.79	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	24-Sep-13	35.01	28.45	6.56	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	21-Oct-13	35.01	28.28	6.73	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	22-Nov-13	35.01	28.27	6.74	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	18-Dec-13	35.01	28.42	6.59	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	30-Jan-14	35.01	28.78	6.23	<1	<1	<1	<2	<2	<1	**0.2**	NS	**67**	NS
	24-Feb-14	35.01	28.50	6.51	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	24-Mar-14	35.01	28.21	6.80	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	28-Apr-14	35.01	27.83	7.18	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	20-May-14	35.01	27.56	7.45	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	24-Jun-14	35.01	26.32	8.69	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	14-Aug-14	35.01	26.25	8.76	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	19-Sep-14	35.01	25.90	9.11	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	20-Nov-14	35.01	26.32	8.69	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	22-Jan-15	35.01	25.53	9.48	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	18-Feb-15	35.01	26.24	8.77	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	26-Mar-15	35.01	26.10	8.91	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	23-Apr-15	35.01	25.97	9.04	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	28-May-15	35.01	25.87	9.14	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	29-Jul-15	35.01	25.78	9.23	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	20-Aug-15	35.01	25.57	9.44	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	22-Sep-15	35.01	26.55	8.46	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	20-Oct-15	35.01	26.85	8.16	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	19-Nov-15	35.01	26.96	8.05	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	17-Dec-15	35.01	27.03	7.98	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	22-Feb-16	35.01	27.14	7.87	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	16-Mar-16	35.01	26.76	8.25	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	22-Apr-16	-	-	-	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	<1.4
	24-May-16	35.01	26.27	8.74	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	22-Jun-16	35.01	26.19	8.82	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS

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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)	Surfactant (mg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-16	5-Jun-12	35.55	28.70	6.85	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	5-Sep-12	35.55	27.27	8.28	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	1-Oct-12	35.55	27.35	8.20	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	5-Nov-12	35.55	27.40	8.15	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	4-Dec-12	35.55	27.19	8.36	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	7-Jan-13	35.55	27.10	8.45	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	5-Feb-13	35.55	26.95	8.60	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	4-Mar-13	35.55	26.92	8.63	<1	<1	<1	<2	<2	<1	**0.18**	<0.1	<1	NS
	8-Apr-13	35.55	26.84	8.71	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	6-May-13	35.55	26.77	8.78	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	4-Jun-13	35.55	26.71	8.84	<1	<1	<1	<2	<2	<1	**0.13**	<0.1	<1	NS
	17-Jun-13	35.55	27.48	8.07	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	24-Jul-13	35.55	28.99	6.56	NS	NS	NS	NS	NS	NS	**0.21**	NS	NS	NS
	21-Aug-13	35.55	29.27	6.28	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	24-Sep-13	35.55	29.50	6.05	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	21-Oct-13	35.55	29.17	6.38	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	18-Nov-13	35.55	29.16	6.39	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	18-Dec-13	35.55	29.37	6.18	NS	NS	NS	NS	NS	NS	**0.19**	NS	NS	NS
	30-Jan-14	35.55	29.62	5.93	<1	<1	<1	<2	<2	<1	**0.24**	NS	<1	NS
	24-Feb-14	35.55	29.35	6.20	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	24-Mar-14	35.55	29.24	6.31	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	28-Apr-14	35.55	28.79	6.76	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	20-May-14	35.55	28.53	7.02	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	24-Jun-14	35.55	27.03	8.52	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	23-Jul-14	35.55	26.47	9.08	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	14-Aug-14	35.55	27.07	8.48	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	19-Sep-14	35.55	26.63	8.92	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	20-Nov-14	35.55	27.40	8.15	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	17-Dec-14	35.55	27.40	8.15	<1	<1	<1	<2	<2	<1	**0.10**	<0.1	<2	NS
	22-Jan-15	35.55	26.24	9.31	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	18-Feb-15	35.55	27.18	8.37	<1	<1	<1	<2	<2	<1	**0.10**	<0.1	<1	NS
	25-Mar-15	35.55	27.02	8.53	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	23-Apr-15	35.55	27.10	8.45	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	28-May-15	35.55	26.78	8.77	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	23-Jun-15	35.55	26.61	8.94	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS

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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)	Surfactant (mg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-16	29-Jul-15	35.55	26.65	8.90	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	20-Aug-15	35.55	26.36	9.19	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	22-Sep-15	35.55	27.45	8.10	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	20-Oct-15	35.55	27.79	7.76	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	19-Nov-15	35.55	27.85	7.70	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	17-Dec-15	35.55	27.93	7.62	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	5-Jan-16	35.55	27.71	7.84	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	22-Feb-16	35.55	28.10	7.45	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	16-Mar-16	35.55	27.67	7.88	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	21-Apr-16	35.55	27.47	8.08	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	<1.4
	24-May-16	35.55	26.97	8.58	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	22-Jun-16	35.55	27.08	8.47	NS	NS	NS	NS	NS	NS	**0.11**	NS	NS	NS

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MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-17	5-Jun-12	35.49	27.72	7.77	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	5-Sep-12	35.49	27.16	8.33	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	4-Dec-12	35.49	27.10	8.39	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	4-Mar-13	35.49	26.81	8.68	<1	<1	<1	<2	<2	<1	**1.0**	<0.1	<1	NS
	4-Jun-13	35.49	26.59	8.90	<1	<1	<1	<2	<2	1.1	<0.1	<0.1	<1	NS
	1-Feb-14	35.49	28.95	6.54	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	28-Apr-14	35.49	27.95	7.54	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	23-Jul-14	35.49	26.23	9.26	<1	<1	<1	<2	<2	<1	**0.13**	NS	<1	NS
	14-Aug-14	35.49	26.51	8.98	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	19-Sep-14	35.49	28.22	7.27	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	20-Nov-14	35.49	26.87	8.62	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	22-Jan-15	35.49	25.91	9.58	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	23-Apr-15	35.49	26.35	9.14	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	29-Jul-15	35.49	25.98	9.51	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	20-Oct-15	35.49	27.03	8.46	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	22-Apr-16	35.49	26.75	8.74	<1	<1	<1	<2	<2	<1	**0.14**	NS	<1	<1.4

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MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-18	5-Jun-12	35.82	28.73	7.09	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	5-Sep-12	35.82	28.34	7.48	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	4-Dec-12	35.82	28.30	7.52	<1	<1	<1	<2	<2	<1	**0.23**	<0.1	<1	NS
	4-Mar-13	35.82	27.98	7.84	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	4-Jun-13	35.82	27.79	8.03	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	30-Jan-14	35.82	30.05	5.77	<1	<1	<1	<2	<2	<1	**0.13**	NS	<1	NS
	28-Apr-14	35.82	28.83	6.99	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	23-Jul-14	35.82	27.34	8.48	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	14-Aug-14	35.82	27.56	8.26	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	19-Sep-14	35.82	27.36	8.46	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	23-Oct-14	35.82	27.83	7.99	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	20-Nov-14	35.82	27.91	7.91	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	21-Jan-15	35.82	27.01	8.81	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	22-Apr-15	35.82	27.32	8.50	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	28-Jul-15	35.82	27.08	8.74	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	19-Oct-15	35.82	28.03	7.79	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	5-Jan-16	35.82	27.98	7.84	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	21-Apr-16	35.82	27.65	8.17	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	<1.4

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MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-19	5-Jun-12	38.85	32.60	6.25	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	5-Sep-12	38.85	29.91	8.94	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	1-Oct-12	38.85	30.00	8.85	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	5-Nov-12	38.85	30.07	8.78	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	4-Dec-12	38.85	29.89	8.96	<1	<1	<1	<2	<2	<1	**0.86**	<0.1	<1	NS
	7-Jan-13	38.85	29.82	9.03	<1	<1	<1	<2	<2	<1	<0.1	<0.1	**5.1**	NS
	5-Feb-13	38.85	29.67	9.18	<1	<1	<1	<2	<2	<1	**0.17**	<0.1	<1	NS
	4-Mar-13	38.85	29.65	9.20	<1	<1	<1	<2	<2	<1	**0.13**	<0.1	**1**	NS
	8-Apr-13	38.85	29.55	9.30	<1	<1	<1	<2	<2	<1	**1.3**	<0.1	<1	NS
	6-May-13	38.85	29.47	9.38	<1	<1	<1	<2	<2	<1	**0.13**	<0.1	<1	NS
	4-Jun-13	38.85	29.41	9.44	<1	<1	<1	<2	<2	<1	**0.36**	<0.1	<1	NS
	17-Jun-13	38.85	30.97	7.88	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	24-Jul-13	38.85	32.96	5.89	NS	NS	NS	NS	NS	NS	**0.14**	NS	NS	NS
	21-Aug-13	38.85	33.33	5.52	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	24-Sep-13	38.85	33.51	5.34	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	21-Oct-13	38.85	32.85	6.00	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	18-Nov-13	38.85	32.99	5.86	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	18-Dec-13	38.85	33.23	5.62	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	30-Jan-14	38.85	33.23	5.62	<1	<1	<1	<2	<2	<1	**0.12**	NS	<1	NS
	24-Feb-14	38.85	32.97	5.88	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	24-Mar-14	38.85	33.06	5.79	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	28-Apr-14	38.85	32.65	6.20	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	20-May-14	38.85	32.33	6.52	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	24-Jun-14	38.85	29.95	8.90	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	29-Jul-14	38.85	29.33	9.52	<1	<1	<1	<2	<2	<1	**0.14**	<0.1	<1	<1.4
	14-Aug-14	38.85	30.24	8.61	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	19-Sep-14	38.85	29.98	8.87	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	23-Oct-14	38.85	31.32	7.53	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	21-Nov-14	38.85	30.58	8.27	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	17-Dec-14	38.85	31.13	7.72	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	22-Jan-15	38.85	29.66	9.19	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	19-Feb-15	38.85	30.98	7.87	<1	<1	<1	<2	<2	<1	**0.10**	<0.1	<1	NS
	26-Mar-15	38.85	30.75	8.10	<1	<1	<1	<2	<2	<1	**0.10**	<0.1	<1	NS
	23-Apr-15	38.85	30.90	7.95	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	28-May-15	38.85	30.46	8.39	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	23-Jun-15	38.85	30.03	8.82	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS

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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)	Surfactant (mg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-19	29-Jul-15	38.85	30.30	8.55	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	20-Aug-15	38.85	29.65	9.20	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	22-Sep-15	38.85	31.23	7.62	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	20-Oct-15	38.85	31.54	7.31	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	19-Nov-15	38.85	31.32	7.53	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	17-Dec-15	38.85	31.62	7.23	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	5-Jan-16	38.85	31.33	7.52	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	22-Feb-16	38.85	31.97	6.88	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	16-Mar-16	38.85	31.54	7.31	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	21-Apr-16	38.85	31.29	7.56	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	<1.4
	24-May-16	38.85	30.21	8.64	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	22-Jun-16	38.85	30.78	8.07	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS

NS - Not Sampled

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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)	Surfactant (mg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-20	5-Jun-12	38.72	32.63	6.09	<1	<1	<1	<2	<2	<1	**1.3**	NS	<1	NS
	27-Jul-12	38.72	30.11	8.61	<1	<1	<1	<2	<2	<1	**1.9**	NS	<1	NS
	5-Sep-12	38.72	29.74	8.98	<1	<1	<1	<2	<2	<1	**1.8**	NS	<1	NS
	1-Oct-12	38.72	29.84	8.88	<1	<1	<1	<2	<2	<1	**4**	<0.1	<1	NS
	5-Nov-12	38.72	29.92	8.80	<1	<1	<1	<2	<2	<1	**2.5**	<0.1	<1	NS
	4-Dec-12	38.72	29.72	9.00	<1	<1	<1	<2	<2	<1	**1.9**	<0.1	<1	NS
	7-Jan-13	38.72	29.68	9.04	<1	<1	<1	<2	<2	<1	**0.68**	<0.1	**2.2**	NS
	5-Feb-13	38.72	29.57	9.15	<1	<1	<1	<2	<2	<1	**0.95**	<0.1	<1	NS
	4-Mar-13	38.72	29.49	9.23	<1	<1	<1	<2	<2	<1	**2.2**	<0.1	<1	NS
	8-Apr-13	38.72	29.40	9.32	<1	<1	<1	<2	<2	<1	**1**	<0.1	<1	NS
	6-May-13	38.72	29.31	9.41	<1	<1	<1	<2	<2	<1	**1.8**	<0.1	<1	NS
	4-Jun-13	38.72	29.24	9.48	<1	<1	<1	<2	<2	<1	**1.6**	<0.1	<1	NS
	17-Jun-13	38.72	31.08	7.64	NS	NS	NS	NS	NS	NS	**1.9**	NS	NS	NS
	24-Jul-13	38.72	32.96	5.76	NS	NS	NS	NS	NS	NS	**2.2**	NS	NS	NS
	21-Aug-13	38.72	33.33	5.39	NS	NS	NS	NS	NS	NS	**2**	NS	NS	NS
	24-Sep-13	38.72	33.51	5.21	NS	NS	NS	NS	NS	NS	**1.1**	NS	NS	NS
	21-Oct-13	38.72	32.91	5.81	NS	NS	NS	NS	NS	NS	**2.4**	NS	NS	NS
	18-Nov-13	38.72	33.00	5.72	NS	NS	NS	NS	NS	NS	**2.8**	NS	NS	NS
	18-Dec-13	38.72	33.26	5.46	NS	NS	NS	NS	NS	NS	**2.4**	NS	NS	NS
	30-Jan-14	38.72	33.29	5.43	<1	<1	<1	<2	<2	<1	**5.7**	NS	<1	NS
	24-Feb-14	38.72	33.06	5.66	NS	NS	NS	NS	NS	NS	**0.58**	NS	NS	NS
	24-Mar-14	38.72	33.13	5.59	NS	NS	NS	NS	NS	NS	**4.4**	NS	NS	NS
	28-Apr-14	38.72	32.71	6.01	<1	<1	<1	<2	<2	<1	**0.70**	NS	<1	NS
	20-May-14	38.72	32.42	6.30	NS	NS	NS	NS	NS	NS	**0.74**	NS	NS	NS
	24-Jun-14	38.72	29.78	8.94	NS	NS	NS	NS	NS	NS	**0.12**	NS	NS	NS
	29-Jul-14	38.72	29.17	9.55	<1	<1	<1	<2	<2	<1	**0.33**	<0.1	<1	<1.4
	14-Aug-14	38.72	30.08	8.64	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	19-Sep-14	38.72	29.95	8.77	<1	<1	<1	<2	<2	<1	**0.94**	<0.1	<1	<1.4
	24-Oct-14	38.72	31.32	7.40	<1	<1	<1	<2	<2	<1	**0.22**	<0.1	<1	<1.4
	21-Nov-14	38.72	30.43	8.29	<1	<1	<1	<2	<2	<1	**0.3**	<0.1	<1	<1.4
	17-Dec-14	38.72	31.13	7.59	<1	<1	<1	<2	<2	<1	**0.24**	<0.1	<1	NS
	22-Jan-15	38.72	29.68	9.04	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	18-Feb-15	38.72	30.98	7.74	<1	<1	<1	<2	<2	<1	**0.47**	<0.1	<1	NS
	26-Mar-15	38.72	30.77	7.95	<1	<1	<1	<2	<2	<1	**0.37**	<0.1	<1	NS
	23-Apr-15	38.72	30.91	7.81	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	28-May-15	38.72	30.47	8.25	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS

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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)	Surfactant (mg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-20	23-Jun-15	38.72	30.03	8.69	<1	<1	<1	<2	<2	<1	**0.15**	<0.1	<1	NS
	29-Jul-15	38.72	30.29	8.43	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	20-Aug-15	38.72	29.61	9.11	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	22-Sep-15	38.72	31.29	7.43	NS	NS	NS	NS	NS	NS	**0.16**	NS	NS	NS
	20-Oct-15	38.72	31.56	7.16	<1	<1	<1	<2	<2	<1	**0.24**	NS	<1	NS
	19-Nov-15	38.72	31.32	7.40	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	17-Dec-15	38.72	31.65	7.07	NS	NS	NS	NS	NS	NS	**0.16**	NS	NS	NS
	5-Jan-16	38.72	31.29	7.43	<1	<1	<1	<2	<2	<1	**0.23**	NS	<1	NS
	22-Feb-16	38.72	32.08	6.64	NS	NS	NS	NS	NS	NS	**1.2**	NS	NS	NS
	16-Mar-16	38.72	31.62	7.10	NS	NS	NS	NS	NS	NS	**1.8**	NS	NS	NS
	21-Apr-16	38.72	31.33	7.39	<1	<1	<1	<2	<2	<1	**7.0**	NS	<1	142
	24-May-16	38.72	30.10	8.62	NS	NS	NS	NS	NS	NS	**6.5**	NS	NS	NS
	22-Jun-16	38.72	30.82	7.90	NS	NS	NS	NS	NS	NS	**1.7**	NS	NS	NS

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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)	Surfactant (mg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-21	5-Jun-12	38.55	31.26	7.29	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	5-Sep-12	38.55	29.61	8.94	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	4-Dec-12	38.55	29.56	8.99	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	4-Mar-13	38.55	29.33	9.22	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	4-Jun-13	38.55	29.09	9.46	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	1-Feb-14	38.55	31.22	7.33	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	28-Apr-14	38.55	31.63	6.92	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	23-Jul-14	38.55	28.97	9.58	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	23-Oct-14	38.55	30.37	8.18	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	22-Jan-15	38.55	28.92	9.63	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	23-Apr-15	38.55	29.92	8.63	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	29-Jul-15	38.55	29.41	9.14	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	20-Oct-15	38.55	30.56	7.99	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	5-Jan-16	38.55	30.42	8.13	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	21-Apr-16	38.55	30.28	8.27	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	<1.4

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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)	Surfactant (mg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-22	5-Sep-12	45.75	35.84	9.91	<1	<1	<1	<2	<2	<1	**41**	NS	**1.7**	NS
	5-Dec-12	45.75	35.88	9.87	<1	<1	<1	<2	<2	<1	**200**	**0.45**	<1	NS
	4-Mar-13	47.04	36.95	10.09	<1	<1	<1	<2	<2	<1	**4.5**	**0.26**	**1.3**	NS
	4-Jun-13	47.04	36.77	10.27	<1	<1	<1	<2	<2	<1	**44**	<0.1	<1	NS
	30-Jan-14	47.04	44.14	2.90	<1	<1	<1	<2	<2	<1	**0.16**	NS	**1.3**	NS
	28-Apr-14	47.04	43.72	3.32	<1	<1	<1	<2	<2	<1	**0.19**	NS	<1	NS
	25-Jul-14	47.04	36.59	10.45	<1	<1	<1	<2	<2	<1	**0.25**	<0.1	**1.1**	<1.4
	15-Aug-14	47.04	37.54	9.50	<1	<1	<1	<2	<2	<1	**0.41**	<0.1	**2.0**	<1.4
	19-Sep-14	47.04	42.72	4.32	<1	<1	<1	<2	<2	<1	**0.35**	<0.1	**2.0**	<2.34
	24-Oct-14	47.04	43.68	3.36	<1	<1	<1	<2	<2	<1	<0.1	<0.1	**2.4**	<1.4
	21-Nov-14	47.04	36.15	10.89	<1	<1	<1	<2	<2	<1	**0.62**	<0.1	**2.8**	<1.4
	23-Jan-15	47.04	40.55	6.49	<1	<1	<1	<2	<2	<1	**0.19**	<0.1	**3.1**	NS
	24-Apr-15	47.04	39.91	7.13	<1	<1	<1	<2	<2	<1	**0.21**	<0.1	**2.1**	NS
	30-Jul-15	47.04	39.98	7.06	<1	<1	<1	<2	<2	<1	**0.14**	<0.1	**2.3**	NS
	21-Oct-15	47.04	39.91	7.13	<1	<1	<1	<2	<2	<1	**0.13**	NS	**1.5**	NS
	7-Jan-16	47.04	39.28	7.76	<1	<1	<1	<2	<2	<1	**0.11**	NS	<1	NS
	21-Apr-16	-	-	-	<1	<1	<1	<2	<2	<1	**0.23**	NS	**1.3**	NS

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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)	Surfactant (mg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-23	5-Jun-12	35.95	28.98	6.97	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	5-Sep-12	35.95	28.55	7.40	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	4-Dec-12	35.95	28.40	7.55	<1	<1	<1	<2	<2	<1	**11**	<0.1	<1	NS
	4-Mar-13	35.95	28.10	7.85	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	4-Jun-13	35.95	27.92	8.03	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	30-Jan-14	35.95	30.23	5.72	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	28-Apr-14	35.95	29.10	6.85	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	23-Jul-14	35.95	27.53	8.42	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	14-Aug-14	35.95	27.78	8.17	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	19-Sep-14	35.95	27.66	8.29	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	23-Oct-14	35.95	28.06	7.89	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	20-Nov-14	35.95	28.10	7.85	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	21-Jan-15	35.95	27.19	8.76	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	22-Apr-15	35.95	27.60	8.35	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	28-Jul-15	35.95	27.32	8.63	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	19-Oct-15	35.95	28.28	7.67	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	5-Jan-16	35.95	28.21	7.74	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	21-Apr-16	35.95	27.87	8.08	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	<1.4

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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)	Surfactant (mg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-24	5-Jun-12	36.56	29.65	6.91	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	5-Sep-12	36.56	28.35	8.21	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	1-Oct-12	36.56	28.41	8.15	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	5-Nov-12	36.56	28.48	8.08	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	4-Dec-12	36.56	28.28	8.28	<1	<1	<1	<2	<2	<1	**0.25**	<0.1	<1	NS
	7-Jan-13	36.56	28.16	8.40	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	5-Feb-13	36.56	28.03	8.53	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	4-Mar-13	36.56	27.99	8.57	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	8-Apr-13	36.56	27.91	8.65	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	6-May-13	36.56	27.86	8.70	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	4-Jun-13	36.56	27.80	8.76	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	17-Jun-13	36.56	28.48	8.08	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	24-Jul-13	36.56	29.96	6.60	NS	NS	NS	NS	NS	NS	**0.11**	NS	NS	NS
	21-Aug-13	36.56	30.24	6.32	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	24-Sep-13	36.56	30.46	6.10	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	21-Oct-13	36.56	30.14	6.42	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	18-Nov-13	36.56	30.12	6.44	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	18-Dec-13	36.56	30.30	6.26	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	30-Jan-14	36.56	30.57	5.99	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	24-Feb-14	36.56	30.29	6.27	NS	NS	NS	NS	NS	NS	**0.17**	NS	NS	NS
	24-Mar-14	36.56	30.19	6.37	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	28-Apr-14	36.56	29.73	6.83	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	20-May-14	36.56	29.47	7.09	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	24-Jun-14	36.56	28.10	8.46	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	23-Jul-14	36.56	27.57	8.99	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	14-Aug-14	36.56	28.12	8.44	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	19-Sep-14	36.56	27.67	8.89	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	23-Oct-14	36.56	28.51	8.05	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	20-Nov-14	36.56	28.43	8.13	<1	<1	<1	<2	<2	<1	**0.47**	<0.1	<1	<1.4
	17-Dec-14	36.56	28.38	8.18	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	21-Jan-15	36.56	27.27	9.29	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	19-Feb-15	36.56	28.18	8.38	<1	<1	<1	<2	<2	<1	**0.12**	<0.1	<1	NS
	25-Mar-15	36.56	28.00	8.56	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	22-Apr-15	36.56	28.10	8.46	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	28-May-15	36.56	27.28	9.28	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	23-Jun-15	36.56	27.60	8.96	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS

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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)	Surfactant (mg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-24	28-Jul-15	36.56	27.65	8.91	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	20-Aug-15	36.56	27.39	9.17	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	22-Sep-15	36.56	28.40	8.16	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	19-Oct-15	36.56	28.75	7.81	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	19-Nov-15	36.56	28.80	7.76	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	17-Dec-15	36.56	28.90	7.66	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	5-Jan-16	36.56	28.65	7.91	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	22-Feb-16	36.56	28.98	7.58	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	16-Mar-16	36.56	28.64	7.92	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	21-Apr-16	36.56	28.44	8.12	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	<1.4
	24-May-16	36.56	27.97	8.59	NS	NS	NS	NS	NS	NS	**0.13**	NS	NS	NS
	22-Jun-16	36.56	28.06	8.50	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS

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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)	Surfactant (mg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-25	5-Jun-12	36.10	28.76	7.34	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	5-Sep-12	36.10	28.18	7.92	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	4-Dec-12	36.10	28.08	8.02	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	4-Mar-13	36.10	27.78	8.32	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	4-Jun-13	36.10	27.57	8.53	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	30-Jan-14	36.10	30.04	6.06	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	28-Apr-14	36.10	28.94	7.16	<1	<1	<1	<2	<2	<1	**0.33**	NS	<1	NS
	23-Jul-14	36.10	27.20	8.90	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	14-Aug-14	36.10	27.54	8.56	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	19-Sep-14	36.10	27.23	8.87	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	23-Oct-14	36.10	27.95	8.15	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	21-Nov-14	36.10	27.88	8.22	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	21-Jan-15	36.10	26.90	9.20	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	22-Apr-15	36.10	27.37	8.73	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	29-Jul-15	36.10	27.05	9.05	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	19-Oct-15	36.10	28.09	8.01	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	5-Jan-16	36.10	28.03	8.07	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	21-Apr-16	36.10	27.73	8.37	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	<1.4

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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)	Surfactant (mg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-28	5-Jun-12	35.90	28.28	7.62	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	5-Sep-12	35.90	28.20	7.70	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	4-Dec-12	35.90	28.02	7.88	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	4-Mar-13	35.90	27.73	8.17	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	4-Jun-13	35.90	27.52	8.38	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	30-Jan-14	35.90	29.64	6.26	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	28-Apr-14	35.90	28.32	7.58	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	23-Jul-14	35.90	26.98	8.92	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	14-Aug-14	35.90	27.43	8.47	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	19-Sep-14	35.90	27.01	8.89	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	23-Oct-14	35.90	27.39	8.51	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	20-Nov-14	35.90	27.46	8.44	<1	<1	<1	<2	<2	<1	**0.11**	<0.1	<1	<1.4
	21-Jan-15	35.90	26.67	9.23	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	22-Apr-15	35.90	26.85	9.05	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	28-Jul-15	35.90	26.65	9.25	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	19-Oct-15	35.90	27.57	8.33	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	5-Jan-16	35.90	27.56	8.34	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	21-Apr-16	35.90	27.19	8.71	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	<1.4

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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)	Surfactant (mg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-29	5-Jun-12	35.15	28.18	6.97	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	5-Sep-12	35.15	28.16	6.99	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	4-Dec-12	35.15	27.96	7.19	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	4-Mar-13	35.15	27.68	7.47	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	4-Jun-13	35.15	27.46	7.69	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	30-Jan-14	35.15	29.57	5.58	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	28-Apr-14	35.15	28.20	6.95	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	22-Jul-14	35.15	26.92	8.23	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	14-Aug-14	35.15	27.04	8.11	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	19-Sep-14	35.15	26.93	8.22	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<3.5
	23-Oct-14	35.15	27.29	7.86	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	20-Nov-14	35.15	27.35	7.80	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	21-Jan-15	35.15	26.59	8.56	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	22-Apr-15	35.15	26.75	8.40	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	28-Jul-15	35.15	26.58	8.57	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	19-Oct-15	35.15	27.49	7.66	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	5-Jan-16	35.15	27.43	7.72	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	21-Apr-16	35.15	27.06	8.09	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	<1.4

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MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-31R	4-Dec-12	47.40	36.19	11.21	<1	<1	<1	<2	<2	<1	**0.45**	<0.1	<1	NS
	4-Mar-13	47.40	37.16	10.24	<1	<1	<1	<2	<2	1.1	<0.1	<0.1	<1	NS
	3-Jun-13	47.40	36.92	10.48	<1	<1	<1	<2	<2	4.1	<0.1	<0.1	<1	NS
	30-Jan-14	47.40	39.89	7.51	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	28-Apr-14	47.40	39.40	8.00	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	24-Jul-14	47.40	36.74	10.66	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	24-Oct-14	47.40	38.07	9.33	<1	<1	<1	<2	<2	1.3	<0.1	NS	<1	NS
	23-Jan-15	47.40	36.83	10.57	<1	<1	<1	<2	<2	1.8	**0.68**	<0.1	<1	NS
	24-Apr-15	47.40	37.56	9.84	<1	<1	<1	<2	<2	2.4	<0.1	<0.1	<1	NS
	30-Jul-15	47.40	37.05	10.35	<1	<1	<1	<2	<2	<1	**0.25**	<0.1	**1.7**	NS
	21-Oct-15	47.40	38.17	9.23	<1	<1	<1	<2	<2	2.4	<0.1	NS	<1	NS
	7-Jan-16	47.40	38.36	9.04	<1	<1	<1	<2	<2	1.1	<0.1	NS	<1	NS
	22-Apr-16	47.40	38.30	9.10	<1	<1	<1	<2	<2	1.5	<0.1	NS	<1	<1.4

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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)	Surfactant (mg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-32	5-Jun-12	44.60	37.08	7.52	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	5-Sep-12	44.60	34.84	9.76	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	4-Dec-12	44.60	34.89	9.71	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	4-Mar-13	47.41	37.39	10.02	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	4-Jun-13	47.41	37.15	10.26	<1	<1	<1	<2	<2	1.1	<0.1	<0.1	<1	NS
	30-Jan-14	47.41	40.65	6.76	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	28-Apr-14	47.41	41.60	5.81	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	24-Jul-14	47.41	37.02	10.39	<1	<1	<1	<2	<2	<1	**0.13**	NS	<1	NS
	23-Jan-15	47.41	37.45	9.96	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	23-Apr-15	47.41	38.25	9.16	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	30-Jul-15	47.41	37.72	9.69	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	21-Oct-15	47.41	38.92	8.49	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	7-Jan-16	47.41	39.10	8.31	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	22-Apr-16	47.41	39.14	8.27	<1	<1	<1	<2	<2	<1	**0.12**	NS	<1	1.51
	22-Jun-16	47.41	38.57	8.84	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	<1.4

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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)	Surfactant (mg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-33	5-Jun-12	36.52	29.89	6.63	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	5-Sep-12	36.52	27.85	8.67	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	1-Oct-12	36.52	27.94	8.58	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	5-Nov-12	36.52	27.99	8.53	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	4-Dec-12	36.52	27.80	8.72	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	7-Jan-13	36.52	27.73	8.79	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	5-Feb-13	36.52	27.56	8.96	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	4-Mar-13	36.52	27.54	8.98	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	8-Apr-13	36.52	27.46	9.06	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	4-Jun-13	36.52	27.32	9.20	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	17-Jun-13	36.52	28.47	8.05	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	24-Jul-13	36.52	30.24	6.28	NS	NS	NS	NS	NS	NS	**0.31**	NS	NS	NS
	21-Aug-13	36.52	30.55	5.97	NS	NS	NS	NS	NS	NS	**0.25**	NS	NS	NS
	24-Sep-13	36.52	30.76	5.76	NS	NS	NS	NS	NS	NS	**0.17**	NS	NS	NS
	21-Oct-13	36.52	30.28	6.24	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	18-Nov-13	36.52	30.33	6.19	NS	NS	NS	NS	NS	NS	**0.24**	NS	NS	NS
	18-Dec-13	36.52	30.54	5.98	NS	NS	NS	NS	NS	NS	**0.3**	NS	NS	NS
	30-Jan-14	36.52	30.69	5.83	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	24-Feb-14	36.52	30.41	6.11	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	24-Mar-14	36.52	30.42	6.10	NS	NS	NS	NS	NS	NS	**0.13**	NS	NS	NS
	28-Apr-14	36.52	29.98	6.54	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	20-May-14	36.52	29.69	6.84	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	24-Jun-14	36.52	27.76	8.76	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	29-Jul-14	36.52	27.17	9.35	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	<1.4
	14-Aug-14	36.52	27.96	8.56	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	19-Sep-14	36.52	27.49	9.03	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	23-Oct-14	36.52	28.68	7.84	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	21-Nov-14	36.52	28.27	8.25	<1	<1	<1	<2	<2	<1	**0.11**	<0.1	<1	<1.4
	17-Dec-14	36.52	28.51	8.01	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	22-Jan-15	36.52	27.13	9.39	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	18-Feb-15	36.52	28.32	8.20	<1	<1	<1	<2	<2	<1	**0.13**	<0.1	<1	NS
	26-Mar-15	36.52	28.10	8.42	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	23-Apr-15	36.52	28.26	8.26	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	28-May-15	36.52	27.85	8.67	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	23-Jun-15	36.52	27.54	8.98	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS

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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)	Surfactant (mg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-33	29-Jul-15	36.52	27.70	8.82	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	20-Aug-15	36.52	27.26	9.26	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	22-Sep-15	36.52	28.60	7.92	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	20-Oct-15	36.52	28.91	7.61	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	19-Nov-15	36.52	28.92	7.60	<1	<1	<1	<2	<2	<1	**0.35**	NS	<1	NS
	17-Dec-15	36.52	29.03	7.49	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	5-Jan-16	36.52	28.71	7.81	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	22-Feb-16	36.52	29.31	7.21	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	16-Mar-16	36.52	28.87	7.65	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	21-Apr-16	36.52	28.60	7.92	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	<1.4
	24-May-16	36.52	27.88	8.64	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	22-Jun-16	36.52	28.18	8.34	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS

NS - Not Sampled

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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)	Surfactant (mg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-34	5-Jun-12	36.64	29.99	6.65	<1	<1	<1	<2	<2	<1	**0.14**	NS	<1	NS
	27-Jul-12	36.64	28.32	8.32	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	5-Sep-12	36.64	27.99	8.65	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	1-Oct-12	36.64	28.08	8.56	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	5-Nov-12	36.64	28.14	8.50	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	4-Dec-12	36.64	27.95	8.69	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	7-Jan-13	36.64	27.86	8.78	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	5-Feb-13	36.64	27.71	8.93	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	4-Mar-13	36.64	27.68	8.96	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	8-Apr-13	36.64	27.61	9.03	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	6-May-13	36.64	27.53	9.11	<1	<1	<1	<2	<2	<1	**0.11**	<0.1	<1	NS
	4-Jun-13	36.64	27.46	9.18	<1	<1	<1	<2	<2	<1	**0.25**	<0.1	<1	NS
	17-Jun-13	36.64	28.62	8.02	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	24-Jul-13	36.64	30.30	6.34	NS	NS	NS	NS	NS	NS	**0.13**	NS	NS	NS
	21-Aug-13	36.64	30.60	6.04	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	24-Sep-13	36.64	30.81	5.83	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	21-Oct-13	36.64	30.40	6.24	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	18-Nov-13	36.64	30.42	6.22	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	18-Dec-13	36.64	30.64	6.00	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	30-Jan-14	36.64	30.82	5.82	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	24-Feb-14	36.64	30.55	6.09	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	24-Mar-14	36.64	30.51	6.13	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	28-Apr-14	36.64	30.05	6.59	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	20-May-14	36.64	29.81	6.83	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	24-Jun-14	36.64	27.90	8.74	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	29-Jul-14	36.64	27.33	9.31	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	14-Aug-14	36.64	28.06	8.58	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	19-Sep-14	36.64	27.76	8.88	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	23-Oct-14	36.64	28.76	7.88	<1	<1	<1	<2	<2	<1	**0.11**	<0.1	<1	<1.4
	21-Nov-14	36.64	28.41	8.23	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	17-Dec-14	36.64	28.66	7.98	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	22-Jan-15	36.64	27.31	9.33	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	18-Feb-15	36.64	28.43	8.21	<1	<1	<1	<2	<2	<1	**0.13**	<0.1	<1	NS
	26-Mar-15	36.64	28.23	8.41	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	23-Apr-15	36.64	28.38	8.26	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	28-May-15	36.64	27.97	8.67	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS

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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)	Surfactant (mg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-34	23-Jun-15	36.64	27.67	8.97	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	29-Jul-15	36.64	27.85	8.79	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	20-Aug-15	36.64	27.39	9.25	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	22-Sep-15	36.64	28.70	7.94	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	20-Oct-15	36.64	29.03	7.61	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	19-Nov-15	36.64	29.11	7.53	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	17-Dec-15	36.64	29.16	7.48	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	5-Jan-16	36.64	28.87	7.77	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	22-Feb-16	36.64	29.44	7.20	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	16-Mar-16	36.64	28.98	7.66	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	21-Apr-16	36.64	28.77	7.87	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	<1.4
	24-May-16	36.64	28.03	8.61	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	22-Jun-16	36.64	28.31	8.33	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS

NS - Not Sampled

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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)	Surfactant (mg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-35	5-Jun-12	38.62	31.79	6.83	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	5-Sep-12	38.62	29.63	8.99	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	1-Oct-12	38.62	29.70	8.92	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	5-Nov-12	38.62	29.72	8.90	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	4-Dec-12	38.62	29.60	9.02	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	7-Jan-13	38.62	29.55	9.07	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	5-Feb-13	38.62	29.38	9.24	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	4-Mar-13	38.62	29.33	9.29	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	8-Apr-13	38.62	29.28	9.34	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	6-May-13	38.62	29.22	9.40	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	4-Jun-13	38.62	29.15	9.47	<1	<1	<1	<2	<2	<1	**0.16**	<0.1	<1	NS
	17-Jun-13	38.62	30.35	8.27	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	24-Jul-13	38.62	32.11	6.51	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	21-Aug-13	38.62	32.42	6.20	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	24-Sep-13	38.62	32.62	6.00	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	21-Oct-13	38.62	32.23	6.39	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	18-Nov-13	38.62	32.24	6.38	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	18-Dec-13	38.62	32.48	6.14	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	30-Jan-14	38.62	32.61	6.01	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	24-Feb-14	38.62	32.38	6.24	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	24-Mar-14	38.62	32.35	6.27	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	28-Apr-14	38.62	31.93	6.69	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	20-May-14	38.62	31.67	6.95	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	24-Jun-14	38.62	29.58	9.04	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	29-Jul-14	38.62	28.98	9.64	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	14-Aug-14	38.62	29.77	8.85	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	19-Sep-14	38.62	29.38	9.24	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<2.34
	24-Oct-14	38.62	30.57	8.05	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	21-Nov-14	38.62	30.11	8.51	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	17-Dec-14	38.62	30.45	8.17	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	22-Jan-15	38.62	29.11	9.51	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	18-Feb-15	38.62	30.26	8.36	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	26-Mar-15	38.62	30.03	8.59	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	23-Apr-15	38.62	30.15	8.47	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	28-May-15	38.62	29.75	8.87	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS

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MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-35	23-Jun-15	38.62	29.41	9.21	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	29-Jul-15	38.62	29.62	9.00	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	20-Aug-15	38.62	29.07	9.55	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	22-Sep-15	38.62	30.51	8.11	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	20-Oct-15	38.62	30.81	7.81	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	19-Nov-15	38.62	30.80	7.82	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	17-Dec-15	38.62	30.98	7.64	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	5-Jan-16	38.62	30.70	7.92	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	22-Feb-16	38.62	31.32	7.30	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	16-Mar-16	38.62	30.89	7.73	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	21-Apr-16	38.62	30.62	8.00	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	<1.4
	24-May-16	38.62	29.80	8.82	NS	NS	NS	NS	NS	NS	**0.10**	NS	NS	NS
	22-Jun-16	38.62	30.15	8.47	NS	NS	NS	NS	NS	NS	<0.1	NS	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)	Surfactant (mg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-37	5-Jun-12	50.54	41.64	8.90	<1	<1	<1	<2	<2	<1	**22**	NS	**3.9**	NS
	6-Sep-12	50.54	39.81	10.73	<1	2.9	1.7	<2	4.6	<1	**100**	NS	**17**	NS
	4-Dec-12	50.54	39.89	10.65	<1	<1	<1	<2	<2	<1	**27**	<0.1	**6.1**	NS
	4-Mar-13	50.54	39.70	10.84	<1	<1	<1	<2	<2	<1	**67**	**0.47**	**7.4**	NS
	4-Jun-13	50.54	39.45	11.09	<1	<1	<1	<2	<2	<1	**12**	<0.1	**3.9**	NS
	30-Jan-14	50.54	41.97	8.57	<1	<1	<1	<2	<2	<1	**46**	NS	**2.1**	NS
	28-Apr-14	50.54	41.79	8.75	<1	<1	<1	<2	<2	<1	**8.8**	NS	**5.8**	NS
	24-Jul-14	50.54	39.27	11.27	<1	<1	<1	<2	<2	<1	**23**	NS	**5.3**	NS
	24-Oct-14	50.54	40.56	9.98	<1	<1	<1	<2	<2	<1	**0.13**	NS	<1	NS
	23-Jan-15	50.54	39.41	11.13	<1	<1	<1	<2	<2	<1	**28**	<0.1	**4.4**	NS
	24-Apr-15	50.54	39.99	10.55	<1	<1	<1	<2	<2	<1	**7.1**	<0.1	**1.4**	NS
	30-Jul-15	50.54	39.50	11.04	<1	<1	<1	<2	<2	<1	**0.35**	<0.1	**1.4**	NS
	21-Sep-15	50.54	40.21	10.33	NS	NS	NS	NS	NS	NS	**2.3**	NS	NS	NS
	5-Oct-15	50.54	40.35	10.19	NS	NS	NS	NS	NS	NS	**1.3**	NS	NS	NS
	19-Oct-15	50.54	40.52	10.02	<5	<5	<5	<10	<10	<5	**0.76**	NS	<5	NS
	7-Jan-16	50.54	40.85	9.69	<1	<1	<1	<2	<2	<1	**5.2**	NS	<1	NS
	23-Feb-16	50.54	41.18	9.36	NS	NS	NS	NS	NS	NS	**1.4**	NS	NS	NS
	22-Apr-16	50.54	40.58	9.96	<1	<1	<1	<2	<2	1.4	**5.2**	NS	<1	<1.4

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Table 1 - Groundwater Monitoring Wells - Historic Data Summary
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100 Brown Street
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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)	Surfactant (mg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-40	6-Jun-12	46.85	39.96	6.89	<1	<1	<1	<2	<2	<1	**12**	NS	<1	NS
	6-Sep-12	46.85	36.79	10.06	<1	<1	<1	1.1e	1.1e	<1	**26**	NS	**1.5**	NS
	4-Dec-12	46.85	36.84	10.01	<1	<1	<1	1.2e	1.2e	<1	**190**	<0.1	**2.1**	NS
	4-Mar-13	48.98	38.66	10.32	<1	<1	<1	<2	<2	<1	**21**	<0.1	**1.5**	NS
	4-Jun-13	48.69	38.22	10.47	<1	<1	<1	1.9e	1.9e	<1	**76**	**0.19**	**3.3**	NS
	30-Jan-14	48.69	42.48	6.21	<1	<1	<1	<2	<2	<1	**5.9**	NS	<1	NS
	28-Apr-14	48.69	42.00	6.69	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	29-Jul-14	48.69	38.11	10.58	<1	<1	<1	<2	<2	<1	**15**	<0.1	<1	<1.4
	15-Aug-14	48.69	38.99	9.70	<100	<100	<100	<200	<200	<100	**9.1**	<0.1	<100	28.3
	19-Sep-14	48.88	39.61	9.27	<1	<1	<1	<2	<2	<1	**3.6**	<0.1	**1.7**	2.38
	24-Oct-14	48.88	40.80	8.08	<1	<1	<1	<2	<2	<1	**7.6**	<0.1	**2.5**	<1.4
	19-Nov-14	48.88	39.78	9.10	<1	<1	<1	<2	<2	<1	**2.1**	<0.1	<1	<1.4
	23-Jan-15	48.88	39.13	9.75	<1	<1	<1	<2	<2	<1	**6.5**	<0.1	<1	NS
	23-Apr-15	48.88	40.08	8.80	<1	<1	<1	<2	<2	<1	**1.9**	<0.1	<1	NS
	30-Jul-15	48.88	39.61	9.27	<1	<1	<1	<2	<2	<1	**0.47**	<0.1	<1	NS
	21-Oct-15	48.88	40.82	8.06	<1	<1	<1	<2	<2	<1	**2.2**	NS	<1	NS
	7-Jan-16	48.88	41.20	7.68	<1	<1	<1	<2	<2	<1	**0.69**	NS	<1	NS
	23-Feb-16	48.88	42.28	6.60	NS	NS	NS	NS	NS	NS	**0.25**	NS	NS	NS
	22-Apr-16	48.88	41.42	7.46	<1	<1	<1	<2	<2	<1	**0.61**	NS	<1	<1.4

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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)	Surfactant (mg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-41	6-Jun-12	42.92	36.62	6.30	<1	<1	3.4	12	15.4	<1	**92**	NS	**46**	NS
	6-Sep-12	42.92	33.31	9.61	<1	<1	1.2	5.1	7.2	<1	**23**	NS	**24**	NS
	4-Dec-12	42.92	33.29	9.63	<1	<1	9	20	29	<1	**190**	**1.7**	**82**	NS
	4-Mar-13	42.92	33.06	9.86	<1	<1	2.5	5.6	8.1	<1	**63**	**0.15**	**23**	NS
	4-Jun-13	42.92	32.81	10.11	<1	<1	1.7	6.9	8.6	<1	**410**	**0.35**	**14**	NS
	30-Jan-14	42.92	37.41	5.51	<1	<1	3.6	6.2	<2	<1	**76**	NS	**30**	NS
	28-Apr-14	42.92	37.18	5.74	<1	<1	<1	<2	<2	<1	**0.53**	NS	**5.2**	NS
	29-Jul-14	42.92	32.85	10.07	<1	<1	<1	<2	<2	<1	**9.5**	<0.1	**5.7**	2.8
	15-Aug-14	42.92	34.00	8.92	<100	<100	<100	<200	<200	<100	**28**	**0.12**	<100	36.2
	19-Sep-14	43.15	34.84	8.31	<1	<1	<1	1.3	1.3	<1	**3.9**	<0.1	**11**	9.56
	24-Oct-14	43.15	36.03	7.12	<1	<1	<1	<2	<2	<1	**1.6**	<0.1	<1	<1.4
	19-Nov-14	43.15	34.60	8.55	<1	<1	<1	<2	<2	<1	**3.1**	<0.1	**4**	2.77
	23-Jan-15	43.15	34.47	8.68	<1	<1	<1	<2	<2	<1	**2.2**	<0.1	**1.8**	NS
	23-Apr-15	43.15	35.57	7.58	<1	<1	<1	<2	<2	<1	**3.7**	<0.1	<1	NS
	30-Jul-15	43.15	34.87	8.28	<1	<1	<1	<2	<2	<1	**1.2**	<0.1	**2.9**	NS
	21-Oct-15	43.15	36.20	6.95	<1	<1	<1	<2	<2	<1	**1.9**	NS	<1	NS
	5-Jan-16	43.15	35.76	7.39	<1	<1	<1	<2	<2	<1	**3.7**	NS	**5.4**	NS
	23-Feb-16	43.15	36.94	6.21	NS	NS	NS	NS	NS	NS	**0.98**	NS	NS	NS
	22-Apr-16	43.15	36.96	6.19	<1	<1	1.6	<2	1.6	<1	**3.6**	NS	**13**	44.4
	25-May-16	43.15	33.97	9.18	NS	NS	NS	NS	NS	NS	**4.8**	NS	NS	7.80

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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)	Surfactant (mg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-42	6-Jun-12	47.04	40.48	6.56	<1	<1	1.2	<2	1.2e	<1	**110**	NS	**16**	NS
	6-Sep-12	47.04	37.06	9.98	<1	<1	<1	<2	<2	<1	**98**	NS	**6.5**	NS
	4-Dec-12	46.15	36.17	9.98	<1	<1	<1	<2	<2	<1	**160**	<0.1	**2.6**	NS
	4-Mar-13	46.15	36.00	10.15	<1	<1	<1	<2	<2	<1	**87**	<0.1	**2.8**	NS
	4-Jun-13	46.15	35.72	10.43	<1	<1	<1	<2	<2	<1	**55**	<0.1	**6.1**	NS
	30-Jan-14	46.15	39.32	6.83	<1	<1	<1	<2	<2	<1	**0.47**	NS	**1.3**	NS
	28-Apr-14	46.15	39.43	6.72	<1	<1	<1	<2	<2	<1	**0.30**	NS	**4.1**	NS
	29-Jul-14	46.15	35.68	10.47	<1	<1	<1	<2	<2	<1	**96**	NS	**2.3**	<1.4
	15-Aug-14	46.15	36.67	9.48	<1	<1	<1	<2	<2	<1	**9.1**	<0.1	**2.7**	20.2
	19-Sep-14	47.11	37.83	9.28	<1	<1	<1	<2	<2	<1	**1.0**	<0.1	<1	4.8
	24-Oct-14	47.11	39.14	7.97	<1	<1	<1	<2	<2	<1	**1.4**	<0.1	<1	2.62
	20-Nov-14	47.11	37.81	9.30	<1	<1	<1	<2	<2	<1	**1.2**	<0.1	**1.1**	<1.4
	22-Jan-15	47.11	37.57	9.54	<1	<1	<1	<2	<2	<1	**1.2**	<0.1	<1	NS
	24-Apr-15	47.11	38.06	9.05	<1	<1	<1	<2	<2	<1	**0.23**	<0.1	<1	NS
	30-Jul-15	47.11	37.40	9.71	<1	<1	<1	<2	<2	<1	**0.74**	<0.1	**1.1**	NS
	21-Oct-15	47.11	38.81	8.30	<1	<1	<1	<2	<2	<1	**0.23**	NS	<1	NS
	5-Jan-16	47.11	38.63	8.48	<1	<1	<1	<2	<2	<1	**2.5**	NS	**1.3**	NS
	23-Feb-16	47.11	39.81	7.30	NS	NS	NS	NS	NS	NS	**1.7**	NS	NS	NS
	22-Apr-16	47.11	39.02	8.09	<1	<1	<1	<2	<2	<1	**4.2**	NS	<1	14.4
	25-May-16	47.11	37.55	9.56	NS	NS	NS	NS	NS	NS	**4.0**	NS	NS	<1.4

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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)	Surfactant (mg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-43	6-Jun-12	46.55	39.73	6.82	<1	<1	<1	<2	<2	<1	**0.21**	NS	<1	NS
	6-Sep-12	46.55	36.62	9.93	<1	<1	<1	<2	<2	<1	**0.21**	NS	<1	NS
	4-Dec-12	46.55	36.61	9.94	<1	<1	<1	<2	<2	<1	**0.22**	<0.1	<1	NS
	4-Mar-13	48.03	37.92	10.11	<1	<1	<1	<2	<2	<1	**0.1**	<0.1	<1	NS
	4-Jun-13	47.90	37.55	10.35	<1	<1	<1	<2	<2	<1	**0.23**	<0.1	**1.4**	NS
	30-Jan-14	47.90	41.75	6.15	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	28-Apr-14	47.90	41.50	6.40	<1	<1	<1	<2	<2	<1	<0.1	NS	**1.5**	NS
	29-Jul-14	47.90	37.44	10.46	<1	<1	<1	<2	<2	<1	**14**	<0.1	<1	<1.4
	15-Aug-14	47.90	38.28	9.62	<1	<1	<1	<2	<2	<1	**0.23**	<0.1	<1	<1.4
	19-Sep-14	47.90	39.09	8.81	<1	<1	<1	<2	<2	<1	**0.21**	<0.1	<1	<2.69
	24-Oct-14	47.90	40.24	7.66	<1	<1	<1	<2	<2	<1	**0.32**	<0.1	<1	<1.4
	19-Nov-14	47.90	38.68	9.22	<1	<1	<1	<2	<2	<1	**0.33**	<0.1	<1	<1.4
	22-Jan-15	47.90	38.70	9.20	<1	<1	<1	<2	<2	<1	**2.2**	<0.1	<1	NS
	24-Apr-15	47.90	39.36	8.54	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	30-Jul-15	47.90	38.91	8.99	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	21-Oct-15	47.90	40.07	7.83	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	7-Jan-16	47.90	40.18	7.72	<1	<1	<1	<2	<2	<1	**0.67**	NS	<1	NS
	23-Feb-16	47.90	41.54	6.36	NS	NS	NS	NS	NS	NS	**0.56**	NS	NS	NS
	22-Apr-16	47.90	40.71	7.19	<1	<1	<1	<2	<2	<1	**8.2**	NS	<1	7.96
	25-May-16	47.90	38.74	9.16	NS	NS	NS	NS	NS	NS	**9.5**	NS	NS	5.00

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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)	Surfactant (mg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-44	5-Jun-12	46.66	38.80	7.86	<1	<1	<1	<2	<2	<1	**0.46**	NS	<1	NS
	5-Sep-12	46.66	36.77	9.89	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	4-Dec-12	46.66	36.79	9.87	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	4-Mar-13	47.46	37.26	10.20	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	3-Jun-13	47.20	36.90	10.30	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	30-Jan-14	47.20	40.20	7.00	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	28-Apr-14	47.20	39.74	7.46	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	24-Jul-14	47.20	36.77	10.43	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	24-Oct-14	47.20	38.35	8.85	<1	<1	<1	<2	<2	<1	**0.11**	NS	<1	NS
	23-Jan-15	47.20	36.79	10.41	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	24-Apr-15	47.20	37.56	9.64	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	30-Jul-15	47.20	37.32	9.88	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	21-Oct-15	47.20	38.42	8.78	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	7-Jan-16	47.20	38.60	8.60	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	22-Apr-16	47.20	38.67	8.53	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	<1.4

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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)	Surfactant (mg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-45	5-Jun-12	40.91	33.67	7.24	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	5-Sep-12	40.91	31.59	9.32	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	4-Dec-12	40.91	31.60	9.31	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	3-Jun-13	40.91	31.11	9.80	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	30-Jan-14	40.91	34.76	6.15	<1	<1	<1	<2	<2	<1	<0.1	NS	**1.8**	NS
	28-Apr-14	40.91	34.22	6.69	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	29-Jul-14	40.70	30.79	9.91	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	15-Aug-14	40.70	31.56	9.14	<1	<1	<1	<2	<2	<1	**0.24**	<0.1	<1	<1.4
	19-Sep-14	40.70	31.41	9.29	<1	<1	<1	<2	<2	<1	**1.8**	<0.1	<1	<1.4
	19-Nov-14	40.70	31.47	9.23	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	23-Jan-15	40.70	30.66	10.04	<1	<1	<1	<2	<2	<1	**0.21**	<0.1	<1	NS
	23-Apr-15	40.70	31.81	8.89	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	30-Jul-15	40.70	31.61	9.09	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	7-Jan-16	40.70	32.38	8.32	<1	<1	<1	<2	<2	<1	**3.2**	NS	<1	NS
	23-Feb-16	40.70	33.51	7.19	NS	NS	NS	NS	NS	NS	**3.1**	NS	NS	NS
	22-Apr-16	40.70	32.95	7.75	<1	<1	<1	<2	<2	<1	**5.9**	NS	<1	15.7
	25-May-16	40.70	31.68	9.02	NS	NS	NS	NS	NS	NS	**8.2**	NS	NS	35.5

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100 Brown Street
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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)	Surfactant (mg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-46	6-Jun-12	41.08	34.67	6.41	<1	<1	1.5	6.9	8.4	<1	**130**	NS	**28**	NS
	6-Sep-12	41.08	31.78	9.30	<1	<1	1.5	12	13.5	<1	**9.4**	NS	**28**	NS
	4-Dec-12	41.08	31.42	9.66	<1	<1	<1	2.3	2.3	<1	**170**	<0.1	**6.5**	NS
	4-Mar-13	41.08	31.53	9.55	<1	<1	<1	3.6	3.6	<1	**100**	<0.1	**6.5**	NS
	4-Jun-13	41.08	31.30	9.78	<1	<1	<1	1.8	1.8e	<1	**14**	<0.1	**3.4**	NS
	30-Jan-14	41.08	36.20	4.88	<1	<1	<1	1.3	<2	<1	**1.5**	NS	**3.3**	NS
	28-Apr-14	41.08	35.58	5.50	<1	<1	1.0	4.6	5.6	<1	**1.1**	NS	**7.2**	NS
	29-Jul-14	40.89	31.04	9.85	<1	<1	<1	1.7	<2	<1	**5.6**	<0.1	**9.0**	<1.4
	15-Aug-14	40.89	32.14	8.75	<1	<1	<1	3.5	3.5	<1	**29**	**0.13**	**16**	<1.4
	19-Sep-14	40.89	32.41	8.48	<1	<1	<1	5.2	5.2	<1	**36**	**0.14**	**21**	<1.4
	19-Nov-14	40.89	32.56	8.33	<1	<1	<1	<2	<2	<1	**28**	**0.2**	**34**	<1.4
	23-Jan-15	40.89	32.23	8.66	<1	<1	<1	4.2	4.2	<1	**18**	**0.27**	**17**	NS
	24-Apr-15	40.89	33.40	7.49	<1	<1	1.2	5.0	6.0	<1	**37**	**0.22**	**24**	NS
	30-Jul-15	40.89	32.82	8.07	<1	<1	1.2	2.1	2.1	<1	**15**	**0.16**	**31**	NS
	7-Jan-16	40.89	34.08	6.81	<1	<1	<1	4.9	4.9	<1	**1.6**	NS	**13**	NS
	23-Feb-16	40.89	35.34	5.55	NS	NS	NS	NS	NS	NS	**1.4**	NS	NS	NS
	22-Apr-16	40.89	34.30	6.59	<1	<1	<1	1.5	1.5	<1	**5.7**	NS	**3.7**	23.4
	22-Jun-16	40.89	33.60	7.29	NS	NS	NS	NS	NS	NS	**0.84**	NS	NS	6.64

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MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-47	6-Jun-12	40.74	34.59	6.15	<1	<1	<1	2.2	2.2	<1	**99**	NS	**8.5**	NS
	4-Dec-12	40.74	31.42	9.32	<1	<1	<1	<2	<2	<1	**180**	**0.11**	**1.7**	NS
	4-Mar-13	40.74	31.17	9.57	1.9	<1	17	78.3	97.2	<1	**6500**	**14**	**180**	NS
	29-Jul-14	40.74	30.92	9.82	2.3	<1	11	23.3	36.6	<1	**530**	**1.2**	**110**	<1.4
	15-Aug-14	40.74	31.95	8.79	3.7	<1	7.2	15.4	26.3	<1	**260**	**0.43**	**74**	<1.4
	19-Sep-14	40.74	33.10	7.64	3.6	<1	8.3	19.4	31.3	<1	**210**	**0.39**	**76**	<1.4
	19-Nov-14	40.74	32.21	8.53	**6.5**	<1	14	<2	20.5	<1	**260**	**2.4**	**160**	<1.4
	23-Jan-15	40.74	32.55	8.19	<5	<5	14	28	42.0	<5	**98**	**15**	**130**	NS
	24-Apr-15	40.74	33.51	7.23	4.2	<1	2.8	5.0	12.0	<1	**21**	**0.22**	**29**	NS
	30-Jul-15	40.74	33.04	7.70	3.1	<1	5.9	15.5	24.5	<1	**220**	**0.87**	**86**	NS
	21-Sep-15	40.74	34.18	6.56	NS	NS	NS	NS	NS	NS	**1.8**	NS	NS	NS
	5-Oct-15	40.74	34.27	6.47	NS	NS	NS	NS	NS	NS	**1.3**	NS	NS	NS
	19-Oct-15	40.74	34.42	6.32	<5	<5	5.6	13.0	18.6	<5	**0.92**	NS	**53**	NS
	5-Jan-16	40.74	34.06	6.68	<1	<1	<1	2.2	2.2	<1	**1.9**	NS	**8.8**	NS
	23-Feb-16	40.74	35.02	5.72	NS	NS	NS	NS	NS	NS	**1.4**	NS	NS	NS
	22-Apr-16	40.74	34.18	6.56	3.5	<1	2.4	2.4	7.9	<1	**7.2**	NS	**6.9**	9.19
	25-May-16	40.74	32.22	8.52	NS	NS	NS	NS	NS	NS	**9.7**	NS	NS	5.08

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MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-48	8-Apr-13	36.22	27.26	8.96	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	6-May-13	36.22	27.20	9.02	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	3-Jun-13	36.22	27.13	9.09	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	17-Jun-13	36.22	28.02	8.20	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	24-Jul-13	36.22	29.53	6.69	NS	NS	NS	NS	NS	NS	**0.11**	NS	NS	NS
	21-Aug-13	36.22	29.77	6.45	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	24-Sep-13	36.22	30.00	6.22	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	21-Oct-13	36.22	29.71	6.51	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	18-Nov-13	36.22	29.68	6.54	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	18-Dec-13	36.22	29.90	6.32	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	30-Jan-14	36.22	30.15	6.07	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	24-Feb-14	36.22	29.91	6.31	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	24-Mar-14	36.22	29.75	6.47	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	28-Apr-14	36.22	29.34	6.88	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	20-May-14	36.22	29.07	7.15	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	24-Jun-14	36.22	28.46	7.76	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	24-Jul-14	36.22	26.87	9.35	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	14-Aug-14	36.22	27.48	8.74	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	19-Sep-14	36.22	27.11	9.11	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	20-Nov-14	36.22	27.76	8.46	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	17-Dec-14	36.22	27.89	8.33	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	25-Mar-15	36.22	27.51	8.71	<1	<1	<1	<2	<2	<1	**0.15**	<0.1	<1	NS
	24-Apr-15	36.22	28.62	7.60	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	28-May-15	36.22	27.28	8.94	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	23-Jun-15	36.22	27.07	9.15	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	30-Jul-15	36.22	27.15	9.07	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	20-Aug-15	36.22	26.80	9.42	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	22-Sep-15	36.22	27.95	8.27	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	20-Oct-15	36.22	28.31	7.91	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	19-Nov-15	36.22	28.38	7.84	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	17-Dec-15	36.22	28.45	7.77	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	16-Mar-16	36.22	28.24	7.98	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	22-Apr-16	36.22	28.02	8.20	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	<1.4
	24-May-16	36.22	27.50	8.72	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	22-Jun-16	36.22	27.59	8.63	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS

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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)	Surfactant (mg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-49	8-Apr-13	35.49	26.80	8.69	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	6-May-13	35.49	26.75	8.74	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	3-Jun-13	35.49	26.68	8.81	<1	<1	<1	<2	<2	<1	**0.32**	<0.1	<1	NS
	17-Jun-13	35.49	27.37	8.12	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	24-Jul-13	35.49	28.72	6.77	NS	NS	NS	NS	NS	NS	**0.11**	NS	NS	NS
	21-Aug-13	35.49	28.98	6.51	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	24-Sep-13	35.49	29.22	6.27	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	21-Oct-13	35.49	28.97	6.52	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	18-Nov-13	35.49	28.95	6.54	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	18-Dec-13	35.49	29.15	6.34	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	30-Jan-14	35.49	29.48	6.01	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	24-Feb-14	35.49	29.20	6.29	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	24-Mar-14	35.49	28.97	6.52	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	28-Apr-14	35.49	28.56	6.93	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	20-May-14	35.49	28.29	7.20	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	24-Jun-14	35.49	26.92	8.57	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	24-Jul-14	35.49	27.40	8.09	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	14-Aug-14	35.49	26.90	8.59	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	19-Sep-14	35.49	26.53	8.96	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	20-Nov-14	35.49	27.22	8.27	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	17-Dec-14	35.49	27.22	8.27	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	22-Jan-15	35.49	26.19	9.30	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	26-Mar-15	35.49	26.82	8.67	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	24-Apr-15	35.49	26.92	8.57	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	28-May-15	35.49	26.60	8.89	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	23-Jun-15	35.49	26.40	9.09	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	30-Jul-15	35.49	26.49	9.00	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	20-Aug-15	35.49	26.23	9.26	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	22-Sep-15	35.49	27.24	8.25	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	20-Oct-15	35.49	27.57	7.92	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	19-Nov-15	35.49	27.65	7.84	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	17-Dec-15	35.49	27.75	7.74	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	22-Feb-16	35.49	27.86	7.63	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	16-Mar-16	35.49	27.48	8.01	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	22-Apr-16	35.49	27.27	8.22	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	<1.4
	24-May-16	35.49	26.88	8.61	NS	NS	NS	NS	NS	NS	**0.10**	NS	NS	NS
	22-Jun-16	35.49	26.90	8.59	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS

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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)	Surfactant (mg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
MW-50	8-Apr-13	35.64	26.86	8.78	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	6-May-13	35.64	26.81	8.83	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	3-Jun-13	35.64	26.74	8.90	<1	<1	<1	<2	<2	<1	**0.35**	<0.1	<1	NS
	17-Jun-13	35.64	27.57	8.07	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	24-Jul-13	35.64	29.07	6.57	NS	NS	NS	NS	NS	NS	**0.14**	NS	NS	NS
	21-Aug-13	35.64	29.33	6.31	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	24-Sep-13	35.64	29.55	6.09	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	21-Oct-13	35.64	29.25	6.39	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	18-Nov-13	35.64	29.25	6.39	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	18-Dec-13	35.64	29.43	6.21	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	30-Jan-14	35.64	29.70	5.94	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	24-Feb-14	35.64	29.43	6.21	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	24-Mar-14	35.64	29.25	6.39	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	28-Apr-14	35.64	28.87	6.77	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	20-May-14	35.64	28.59	7.05	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	24-Jun-14	35.64	27.04	8.60	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	24-Jul-14	35.64	26.51	9.13	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	14-Aug-14	35.64	27.07	8.57	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	19-Sep-14	35.64	26.69	8.95	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	24-Oct-14	35.64	27.62	8.02	<1	<1	<1	<2	<2	<1	**0.58**	<0.1	<1	<1.4
	21-Nov-14	35.64	27.39	8.25	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	<1.4
	17-Dec-14	35.64	27.46	8.18	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	23-Jan-15	35.64	26.16	9.48	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	18-Feb-15	35.64	27.26	8.38	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	25-Mar-15	35.64	27.08	8.56	<1	<1	<1	<2	<2	<1	**0.11**	<0.1	<1	NS
	24-Apr-15	35.64	26.90	8.74	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	28-May-15	35.64	26.85	8.79	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	23-Jun-15	35.64	26.66	8.98	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	30-Jul-15	35.64	26.71	8.93	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	20-Aug-15	35.64	26.39	9.25	<1	<1	<1	<2	<2	<1	<0.1	<0.1	<1	NS
	22-Sep-15	35.64	27.50	8.14	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	20-Oct-15	35.64	27.84	7.80	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	19-Nov-15	35.64	27.92	7.72	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	17-Dec-15	35.64	27.98	7.66	NS	NS	NS	NS	NS	NS	**0.16**	NS	NS	NS
	5-Jan-16	35.64	27.67	7.97	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	22-Feb-16	35.64	28.16	7.48	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	16-Mar-16	35.64	27.76	7.88	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS
	22-Apr-16	35.64	27.54	8.10	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	<1.4
	24-May-16	35.64	27.06	8.58	NS	NS	NS	NS	NS	NS	**0.12**	NS	NS	NS
	22-Jun-16	35.64	27.07	8.57	NS	NS	NS	NS	NS	NS	<0.1	NS	NS	NS

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

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)	Surfactant (mg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
RW-2D	4-Mar-13	40.54	30.95	9.59	<1	<1	<1	<2	<2	<1	**100**	<0.1	<1	NS
	4-Jun-13	40.54	30.72	9.82	<1	<1	<1	<2	<2	<1	**23**	<0.1	<1	NS
	30-Jan-14	40.54	43.23	-2.69	<1	<1	<1	<2	<2	<1	**17**	NS	<1	NS
	28-Apr-14	40.54	43.70	-3.16	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	25-Jul-14	40.54	29.66	10.88	<1	<1	<1	<2	<2	<1	**0.33**	NS	**1.2**	NS
	24-Oct-14	40.54	31.57	8.97	<1	<1	<1	<2	<2	<1	**0.18**	NS	**3.6**	NS
	23-Jan-15	40.54	40.58	-0.04	<1	<1	<1	<2	<2	<1	**0.12**	<0.1	**2.8**	NS
	24-Apr-15	40.54	40.90	-0.36	<1	<1	<1	<2	<2	<1	**0.20**	<0.1	**2.1**	NS
	30-Jul-15	40.54	40.41	0.13	<1	<1	<1	<2	<2	<1	<0.1	<0.1	**2.2**	NS
	21-Oct-15	40.54	40.82	-0.28	<1	<1	<1	<2	<2	<1	**0.20**	NS	**2.4**	NS
	7-Jan-16	40.54	40.75	-0.21	<1	<1	<1	<2	<2	<1	**0.11**	NS	**2.6**	NS
	21-Apr-16	40.54	40.91	-0.37	<1	<1	<1	<2	<2	<1	<0.1	NS	**1.6**	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)	Surfactant (mg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
RW-3B	5-Sep-12	39.45	30.15	9.30	<1	<1	<1	<2	<2	<1	**280**	NS	**4.1**	NS
	5-Dec-12	39.45	31.14	8.31	<1	<1	9.7	29.6	39.3	<1	**3000**	**0.66**	**120**	NS
	4-Mar-13	39.45	29.94	9.53	<1	<1	7.6	26.9	34.5	<1	**1100**	**24**	**110**	NS
	30-Jan-14	39.45	40.72	-1.24	<1	<1	<1	<2	<2	<1	**0.12**	NS	<1	NS
	28-Apr-14	39.45	40.92	-1.45	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	25-Jul-14	39.45	29.49	9.96	<1	<1	<1	<2	<2	<1	**0.22**	NS	<1	NS
	24-Oct-14	39.45	42.19	-2.74	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	23-Jan-15	39.45	40.75	-1.30	<1	<1	<1	<2	<2	<1	**0.18**	<0.1	**1.8**	NS
	24-Apr-15	39.45	40.98	-1.53	<1	<1	<1	<2	<2	<1	**0.17**	<0.1	<1	NS
	30-Jul-15	39.45	41.02	-1.57	<1	<1	<1	<2	<2	<1	**0.15**	<0.1	<1	NS
	21-Oct-15	39.45	40.12	-0.67	<1	<1	<1	<2	<2	<1	**0.15**	NS	**1.2**	NS
	7-Jan-16	39.45	40.52	-1.07	<1	<1	<1	<2	<2	<1	**0.14**	NS	**1.1**	NS
	21-Apr-16	39.45	47.01	-7.56	<1	<1	<1	<2	<2	<1	**0.19**	NS	<1	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)	Surfactant (mg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
RW-4	5-Sep-12	45.69	35.65	10.04	<1	<1	<1	<2	<2	<1	**4.7**	NS	<1	NS
	5-Dec-12	45.69	35.68	10.01	<1	<1	<1	2	2	<1	**3.5**	<0.1	**35**	NS
	4-Mar-13	48.18	38.02	10.16	<1	<1	<1	<2	<2	<1	**1.7**	<0.1	<1	NS
	4-Jun-13	48.18	37.77	10.41	<1	<1	<1	<2	<2	<1	**0.54**	<0.1	<1	NS
	30-Jan-14	48.18	44.90	3.28	<1	<1	<1	<2	<2	<1	**0.14**	NS	**1.1**	NS
	28-Apr-14	NS	NS	NS	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	25-Jul-14	48.15	38.82	9.33	<1	<1	<1	<2	<2	<1	**0.16**	NS	**1.0**	NS
	24-Oct-14	48.15	42.65	5.50	<1	<1	<1	<2	<2	<1	<0.1	NS	**1.6**	NS
	23-Jan-15	48.15	41.08	7.07	<1	<1	<1	<2	<2	<1	**0.16**	<0.1	**1.7**	NS
	24-Apr-15	48.15	41.79	6.36	<1	<1	<1	<2	<2	<1	**0.16**	<0.1	**1.2**	NS
	30-Jul-15	48.15	41.25	6.90	<1	<1	<1	<2	<2	<1	<0.1	<0.1	**1.9**	NS
	21-Oct-15	48.15	43.33	4.82	<1	<1	<1	<2	<2	<1	<0.1	NS	**1.9**	NS
	7-Jan-16	48.15	47.62	0.53	<1	<1	<1	<2	<2	<1	**0.14**	NS	**1.4**	NS
	21-Apr-16	48.15	47.44	0.71	<1	<1	<1	<2	<2	<1	**0.18**	NS	**1.3**	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)	Surfactant (mg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
RW-5	5-Sep-12	43.34	33.50	9.84	<1	<1	<1	<2	<2	<1	**26**	NS	<1	NS
	5-Dec-12	43.34	33.52	9.82	<1	<1	<1	<2	<2	<1	**52a**	1.5	**1.6**	NS
	4-Mar-13	43.34	33.30	10.04	<1	<1	<1	<2	<2	<1	**9.9**	<0.1	<1	NS
	4-Jun-13	43.34	33.05	10.29	<1	<1	<1	<2	<2	<1	**40**	<0.1	<1	NS
	30-Jan-14	43.34	41.75	1.59	<1	<1	<1	<2	<2	<1	**0.17**	NS	**1**	NS
	28-Apr-14	43.34	42.33	1.01	<1	<1	<1	<2	<2	<1	<0.1	NS	<1	NS
	25-Jul-14	43.34	33.97	9.37	<1	<1	<1	<2	<2	<1	**0.30**	NS	<1	NS
	24-Oct-14	43.34	41.22	2.12	<1	<1	<1	<2	<2	<1	**0.13**	NS	<1	NS
	23-Jan-15	43.34	39.81	3.53	<1	<1	<1	<2	<2	<1	**0.12**	<0.1	**1.1**	NS
	24-Apr-15	43.34	38.91	4.43	<1	<1	<1	<2	<2	<1	**0.20**	<0.1	<1	NS
	30-Jul-15	43.34	39.91	3.43	<1	<1	<1	<2	<2	<1	**0.18**	<0.1	<1	NS
	21-Oct-15	43.34	41.21	2.13	<1	<1	<1	<2	<2	<1	**0.13**	NS	<1	NS
	7-Jan-16	43.34	40.79	2.55	<1	<1	<1	<2	<2	<1	**0.11**	NS	<1	NS
	21-Apr-16	43.34	42.43	0.91	<1	<1	<1	<2	<2	<1	**0.21**	NS	<1	NS

NS - Not Sampled

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

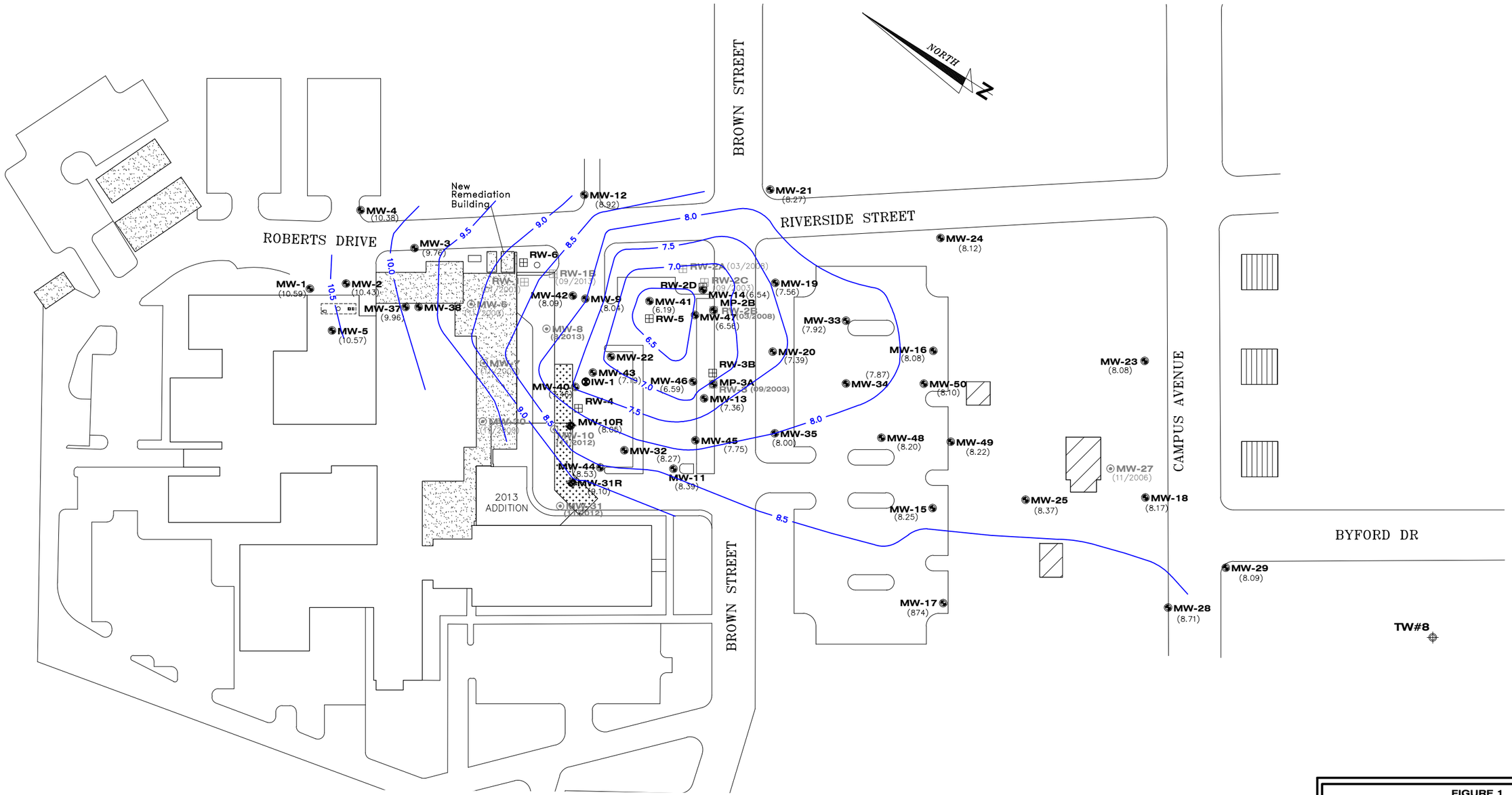
Well No.	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)	Naphthalene (µg/L)	Surfactant (mg/L)
MDE GW Cleanup Standards for Type I and II Aquifers					**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**0.047**	**0.047**	**0.65**	**NA**
RW-6	5-Jun-12	47.22	47.48	-0.26	<1	<1	2.4	4.1	6.5	<1	**16**	NS	**33**	NS
	5-Sep-12	47.22	36.95	10.27	<1	<1	<1	<2	<2	<1	**22**	NS	<1	NS
	5-Dec-12	47.22	37.01	10.21	<1	<1	<1	<2	<2	<1	**1.4**	<0.1	<1	NS
	4-Mar-13	47.22	36.81	10.41	<1	<1	<1	<2	<2	<1	**0.53**	<0.1	**1.1**	NS
	4-Jun-13	47.22	36.55	10.67	<1	<1	<1	<2	<2	<1	**0.65**	<0.1	<1	NS
	28-Apr-14	47.22	46.78	0.44	<1	<1	<1	<2	<2	<1	<0.1	NS	**1.3**	NS
	25-Jul-14	47.22	36.57	10.65	<1	<1	<1	<2	<2	<1	**0.19**	NS	**1.1**	NS
	24-Oct-14	47.22	44.67	2.55	<1	<1	<1	<2	<2	<1	<0.1	NS	**3.3**	NS
	23-Jan-15	47.22	43.02	4.20	<1	<1	<1	<2	<2	<1	**0.12**	<0.1	**2.0**	NS
	24-Apr-15	47.22	43.35	3.87	<1	<1	<1	<2	<2	<1	<0.1	<0.1	**1.1**	NS
	30-Jul-15	47.22	42.20	5.02	<1	<1	<1	<2	<2	<1	**0.12**	<0.1	**1.4**	NS
	21-Oct-15	47.22	43.08	4.14	<1	<1	<1	<2	<2	<1	<0.1	NS	**1.7**	NS
	7-Jan-16	47.22	43.63	3.59	<1	<1	<1	<2	<2	<1	**0.12**	NS	**1.7**	NS
	21-Apr-16	47.22	41.54	5.68	<1	<1	<1	<2	<2	<1	<0.1	NS	**1.1**	NS

NS - Not Sampled

FIGURES

FIGURE 1

Water Table Contour Maps – April, May, June



LEGEND

MW-40	MONITORING WELL
RW-3B	RECOVERY WELL
IW-1	INJECTION WELL
MW-30 (09/2003)	ABANDONED MONITORING WELL DATE OF ABANDONMENT
RW-3 (09/2003)	ABANDONED RECOVERY WELL DATE OF ABANDONMENT
5.50	WATER TABLE CONTOUR (FT. MSL)
	10,000 UST
TW#8	TOWN WELL

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)

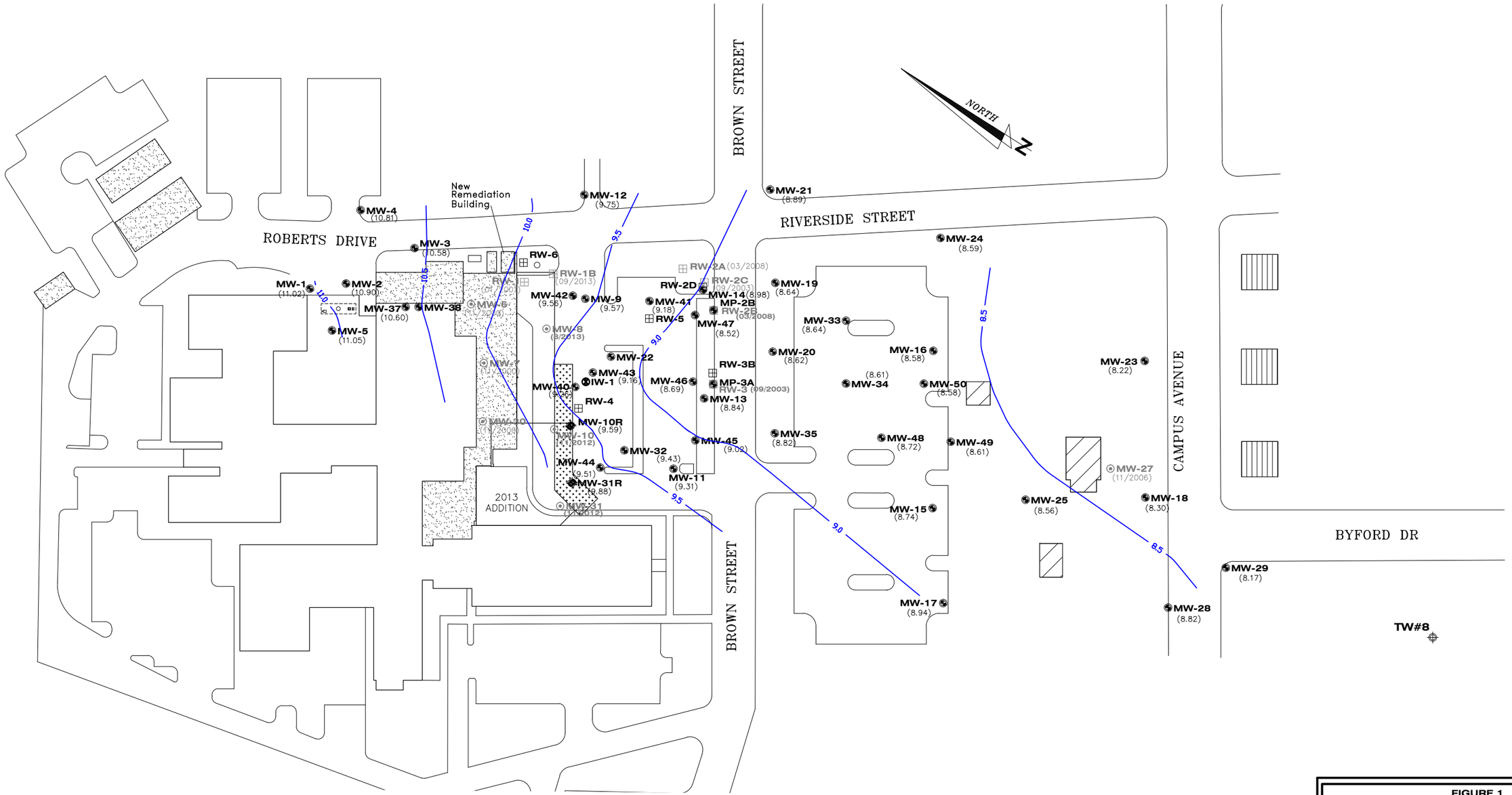
FIGURE 1
WATER TABLE CONTOUR MAP
FOR
CHESTER RIVER HOSPITAL CENTER
CHESTERTOWN, MARYLAND

PROJECT: 4070-00	SCALE: AS SHOWN
DRAWN BY: DK	DATE: 5/09/2016

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

X:\DAN-WORK FOR OTHERS\JAMES\4070-00-0012781-JAN 2014\2016\2781 APRIL.dwg

Figure 1 – Water table contour map April 20, 2016 – Chester River Hospital Center, Chestertown, Maryland.



LEGEND

MW-40	MONITORING WELL
RW-3B	RECOVERY WELL
IW-1	INJECTION WELL
MW-30 (09/2003)	ABANDONED MONITORING WELL DATE OF ABANDONMENT
RW-3 (09/2003)	ABANDONED RECOVERY WELL DATE OF ABANDONMENT
5.50	WATER TABLE CONTOUR (FT. MSL)
	10,000 UST
TW#8	TOWN WELL

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: 4070-00	SCALE: AS SHOWN
DRAWN BY: DK	DATE: 6/23/2016

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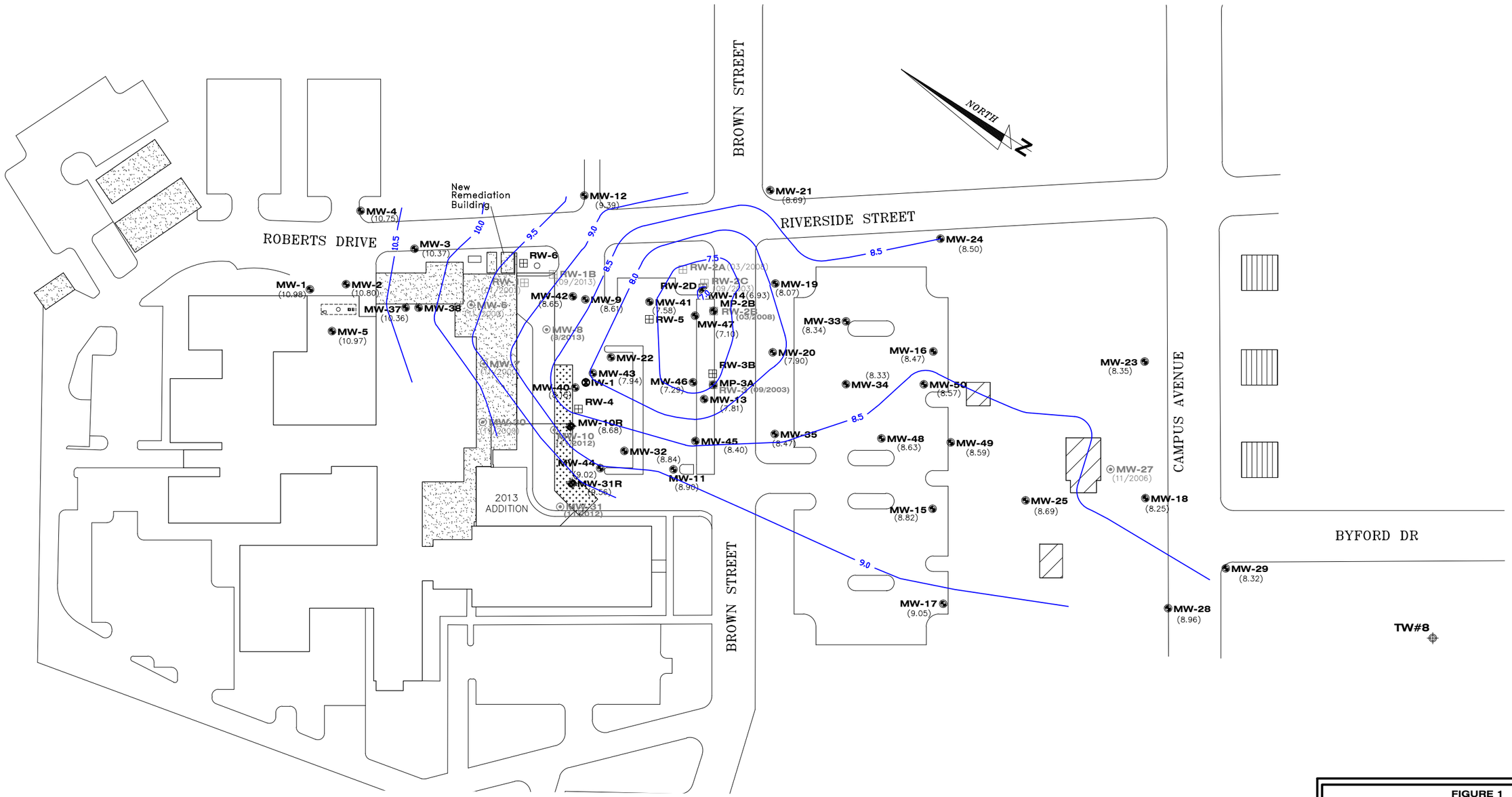
X:\DAN-WORK FOR OTHERS\JAMES\4070-00-00\2781-JAN 2014\2016\2781 MAY.dwg

Figure 1 – Water table contour map May 24–25, 2016 – Chester River Hospital Center, Chestertown, Maryland.



LEGEND

MW-40	MONITORING WELL
RW-3B	RECOVERY WELL
IW-1	INJECTION WELL
MW-30 (09/2003)	ABANDONED MONITORING WELL DATE OF ABANDONMENT
RW-3 (09/2003)	ABANDONED RECOVERY WELL DATE OF ABANDONMENT
5.50	WATER TABLE CONTOUR (FT. MSL)
	10,000 UST
TW#8	TOWN WELL

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: 4070-00	SCALE: AS SHOWN
DRAWN BY: DK	DATE: 6/23/2016

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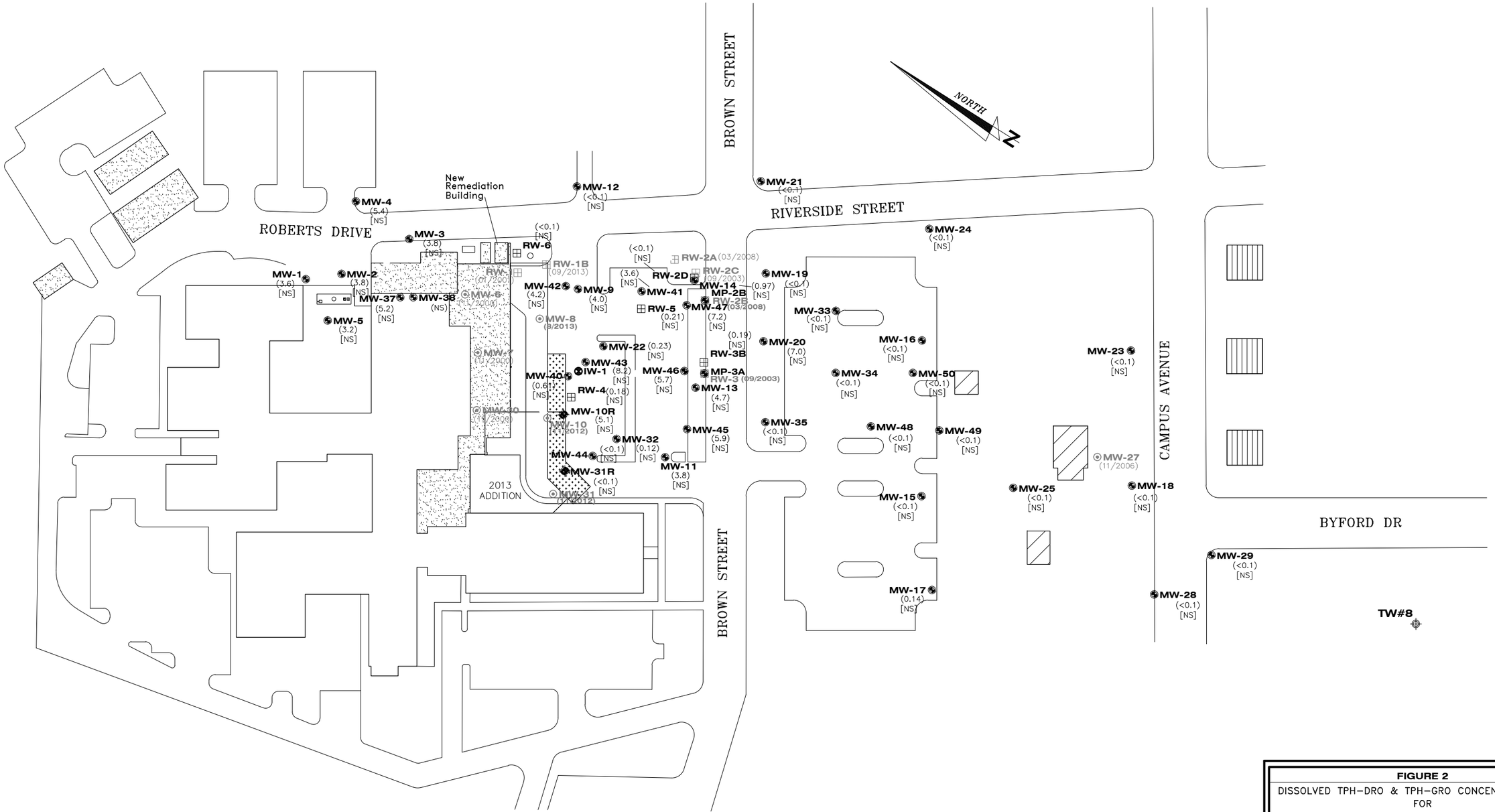
Figure 1 – Water table contour map June 21, 2016 – Chester River Hospital Center, Chestertown, Maryland.

FIGURE 2

Water Quality Maps of TPH-DRO -– April, May, June



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
(1234)	TPH-DRO (mg/L)
[1234]	TPH-GRO (mg/L)
BDL	BELOW DETECTION LIMIT
NS	NOT SAMPLED
[ ]	10,000 UST
TW#8	TOWN WELL

FIGURE 2

DISSOLVED TPH-DRO & TPH-GRO CONCENTRATION MAP FOR

CHESTER RIVER HOSPITAL CENTER

CHESTERTOWN, MARYLAND

PROJECT: 4070-00	SCALE: AS SHOWN
DRAWN BY: DK	DATE: 5/12/16

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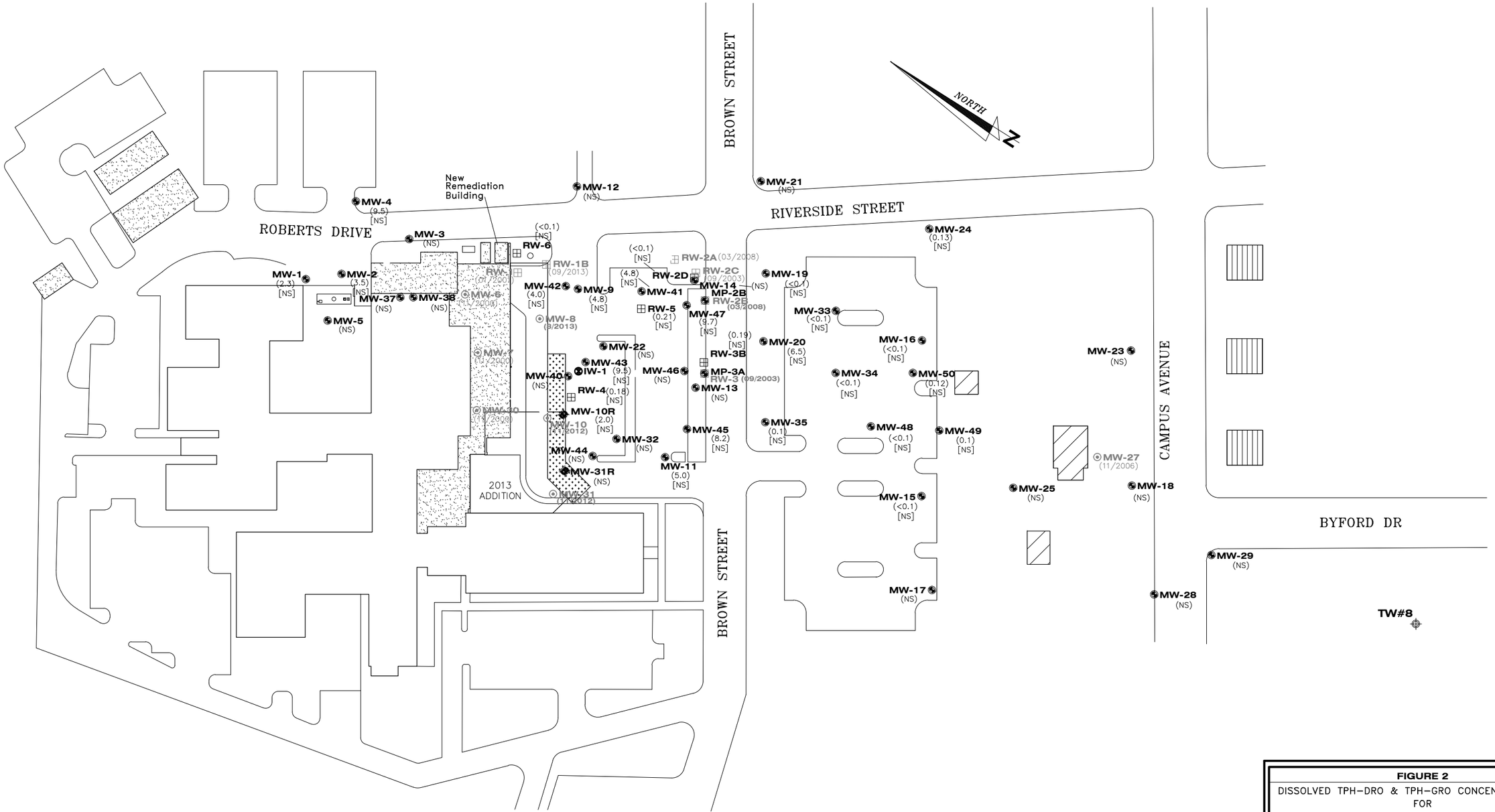
Figure 2- Site map showing total petroleum hydrocarbon (TPH) concentrations, April 22, 2016 Chester River Hospital Center, Chestertown, Maryland.



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
(1234)	TPH-DRO (mg/L)
[1234]	TPH-GRO (mg/L)
BDL	BELOW DETECTION LIMIT
NS	NOT SAMPLED
	10,000 UST
TW#8	TOWN WELL

FIGURE 2

DISSOLVED TPH-DRO & TPH-GRO CONCENTRATION MAP FOR

CHESTER RIVER HOSPITAL CENTER

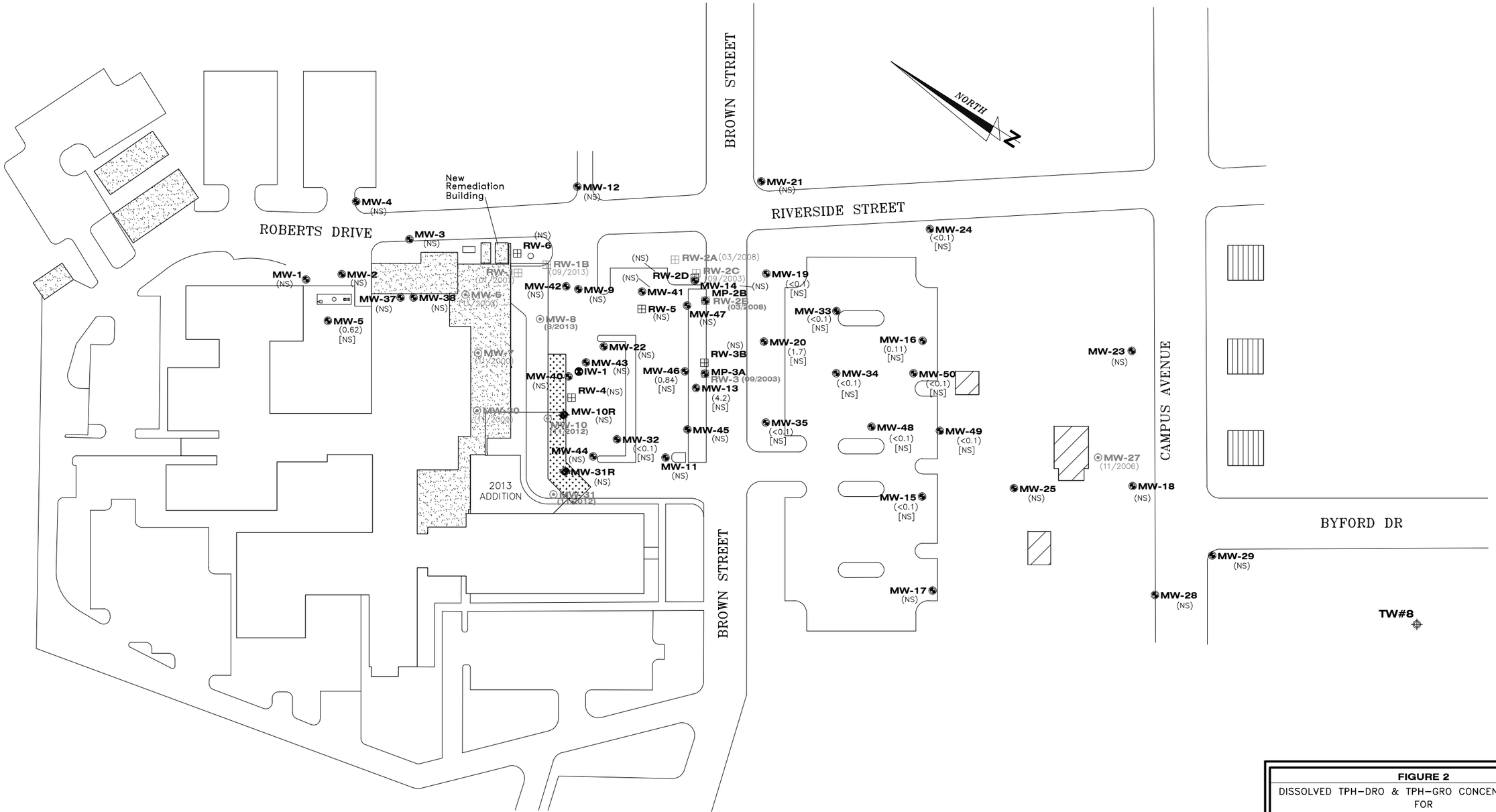
CHESTERTOWN, MARYLAND

PROJECT: 4070-00	SCALE: AS SHOWN
DRAWN BY: DK	DATE: 6/23/16

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

X:\DAN-WORK FOR OTHERS\JAMES\4070-00-00\2781-JAN 2014\2016\2781 MAY.dwg

Figure 2- Site map showing total petroleum hydrocarbon (TPH) concentrations, May 24-25, 2016 Chester River Hospital Center, Chestertown, Maryland.



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
(1234)	TPH-DRO (mg/L)
[1234]	TPH-GRO (mg/L)
BDL	BELOW DETECTION LIMIT
NS	NOT SAMPLED
[- - - - - -]	10,000 UST
TW#8	TOWN WELL

80 0 40 80

GRAPHIC SCALE (FEET)

FIGURE 2

DISSOLVED TPH-DRO & TPH-GRO CONCENTRATION MAP FOR

CHESTER RIVER HOSPITAL CENTER

CHESTERTOWN, MARYLAND

PROJECT: 4070-00	SCALE: AS SHOWN
DRAWN BY: DK	DATE: 7/13/16

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4813 SETON DRIVE
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Tel: (410) 358-7171 Fax: (410) 358-7213
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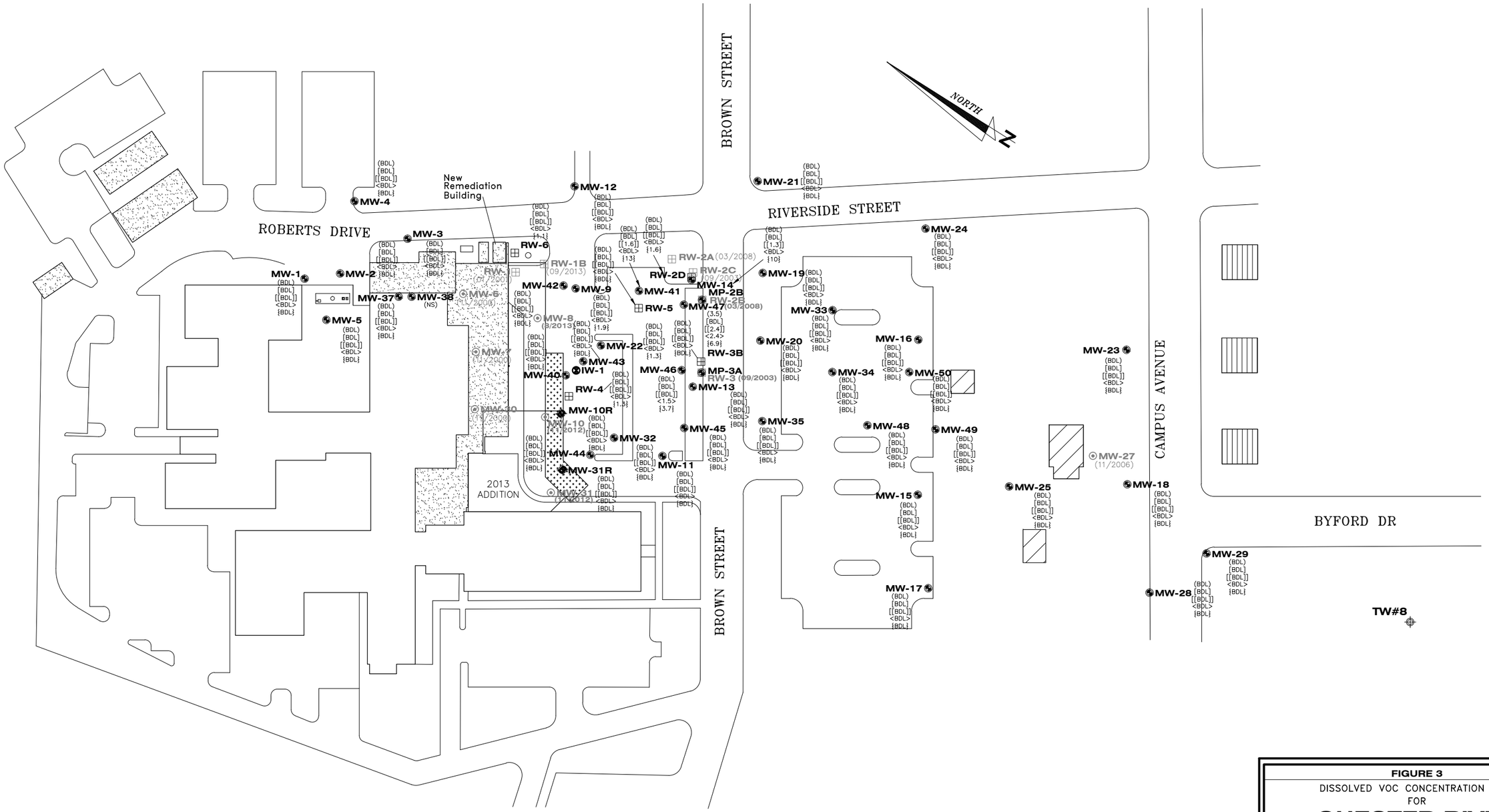
Figure 2- Site map showing total petroleum hydrocarbon (TPH) concentrations, June 22, 2016 Chester River Hospital Center, Chestertown, Maryland.

FIGURE 3

Water Quality Map of BTEX and Naphthalene - April



LEGEND

MW-40	MONITORING WELL	(1234)	BENZENE (ug/L)
RW-3B	RECOVERY WELL	[1234]	TOLULENE (ug/L)
IW-1	INJECTION WELL	[[1234]]	ETHYLBENZENE (ug/L)
MW-30	ABANDONED MONITORING WELL	<1234>	XYLENES (ug/L)
(09/2003)	DATE OF ABANDONMENT	{1234}	NAPHTHALENE (ug/L)
RW-3	ABANDONED RECOVERY WELL	BDL	BELOW DETECTION LIMIT
(09/2003)	DATE OF ABANDONMENT	NS	NOT SAMPLED

80 0 40 80

GRAPHIC SCALE (FEET)

FIGURE 3

DISSOLVED VOC CONCENTRATION MAP FOR

CHESTER RIVER HOSPITAL CENTER

CHESTERTOWN, MARYLAND

PROJECT: 4070-00	SCALE: AS SHOWN
DRAWN BY:	DATE: 5/12/16

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BALTIMORE, MD. 21215
Tel: (410) 358-7171 Fax: (410) 358-7213
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Figure 3– Site map showing volatile organic compounds (VOC) concentrations, April 16, 2016 Chester River Hospital Center, Chestertown, Maryland.

FIGURE 4

Water Quality Map of Surfactant – April, May, June

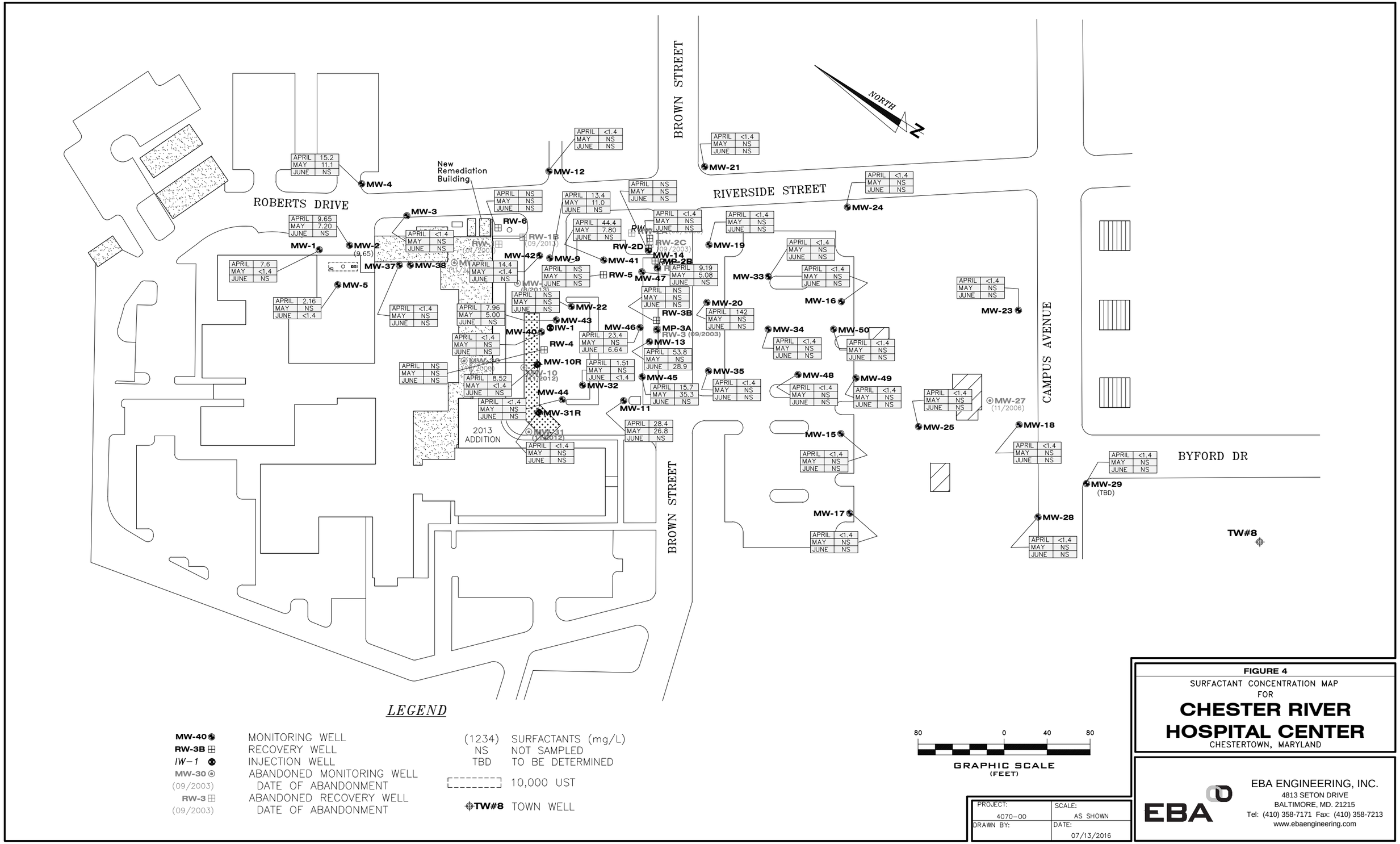

Figure 4– Site map showing surfactant concentrations, April, May, June 2016 Chester River Hospital Center, Chestertown, Maryland.

APPENDIX A

LABORATORY RESULTS

Analytical Report for

UMM Shore Regional Health Chestertown

Certificate of Analysis No.: 16042114

Project Manager: Ken Hannon

Project Name : CRHC

Project Location: Chestertown, MD

June 24, 2016

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 24, 2016

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

Reference: PSS Work Order(s) No: **16042114**
Project Name: CRHC
Project Location: Chestertown, MD

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 **16042114**.

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 May 26, 2016, with the exception of air canisters which are cleaned immediately following analysis. 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,

Cathy Thompson
QA Officer

Sample Summary

Client Name: UMM Shore Regional Health Chestertown

Project Name: CRHC

Work Order Number(s): 16042114

The following samples were received under chain of custody by Phase Separation Science (PSS) on 04/21/2016 at 02:20 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
16042114-001	MW 29	GROUND WATER	04/21/16 09:00
16042114-002	MW 28	GROUND WATER	04/21/16 09:20
16042114-003	MW 18	GROUND WATER	04/21/16 09:38
16042114-004	MW 25	GROUND WATER	04/21/16 09:48
16042114-005	MW 23	GROUND WATER	04/21/16 10:01
16042114-006	MW 24	GROUND WATER	04/21/16 10:14
16042114-007	MW 21	GROUND WATER	04/21/16 10:27
16042114-008	MW 16	GROUND WATER	04/21/16 10:42
16042114-009	MW 33	GROUND WATER	04/21/16 10:56
16042114-010	MW 34	GROUND WATER	04/21/16 11:07
16042114-011	MW 35	GROUND WATER	04/21/16 11:20
16042114-012	MW 20	GROUND WATER	04/21/16 11:34
16042114-013	MW 19	GROUND WATER	04/21/16 11:47
16042114-014	MW 12	GROUND WATER	04/21/16 12:00

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)].
7. Method 180.1, The Determination of Turbidity by Nephelometry, recommends samples over 40 NTU be diluted until the turbidity falls below 40 units. Routine samples over 40 NTU may not be diluted as long as the data quality objectives are not affected.
8. Alkalinity results analyzed by EPA 310.2 that are reported by dilution are estimated and are not in compliance with method requirements.

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 MDL.
MDL	This is the Laboratory Method Detection Limit which is equivalent to the Limit of Detection (LOD). The LOD is an estimate of the minimum amount of a substance that an analytical process can reliably detect. This value will remain constant across multiple similar instrumentation and among different analysts. An LOD is analyte and matrix specific.
ND	Not Detected at or above the reporting limit.
RL	PSS Reporting Limit.
U	Not detected.

Sample Summary

Client Name: UMM Shore Regional Health Chestertown
Project Name: CRHC

Work Order Number(s): 16042114

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

Rogers & Callcott ENVIRONMENTAL

Laboratory Services

Laboratory Report

Client	Phase Separation Science, Inc. Lynn Jackson 6630 Baltimore National Pike Baltimore, MD 21228	**Project:** **Work Order:** **Received:**	Routine 6041166 04/26/2016 09:30

Dear Client:

Rogers and Callcott appreciates the opportunity to be of service to you. The attached laboratory services report includes analytical results and chain of custody for samples that were received on April 26, 2016. Rogers and Callcott maintains a formal QA/QC program. Unless otherwise noted, all analyses performed under NELAP certification have complied with all the requirements for the TNI standard. The analyses met the QA/QC confidence interval for each test method unless otherwise qualified. Estimated uncertainty is available upon request.

Privileged / Confidential information may be contained in this report and is intended only for the use of the addressee. If you are not the addressee, or the person responsible for delivering to the person addressed, you may not copy or deliver this message to anyone else. If you receive this message by mistake, please notify Rogers and Callcott immediately.

We strive to provide excellent service to our clients. Please contact Melissa Riddle, your Project Manager, at melissa.riddle@rogersandcallcott.com or (864)-232-1556 if you have any questions about this report.

Report Approved By:

Melissa M Riddle

Melissa Riddle
Project Manager

PO Box 5655 | Greenville, SC 29606 | 426 Fairforest Way | Greenville, SC 29607 | main 864.232.1556 | fax 864.232.6140 rogersandcallcott.com
an employee-owned company

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Rogers & Callcott ENVIRONMENTAL

Certificate of Analysis

South Carolina Greenville Laboratory Identification 23105
South Carolina Columbia Laboratory Identification 40572
North Carolina Laboratory Certification Number 27
North Carolina Drinking Water Lab Number 45710
NELAP Utah Certificate Number SC000042014-1
Georgia Drinking Water Lab ID 880

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

Project: Routine
Work Order: 6041166
Received: 04/26/2016 09:30

Sample Number	Sample Description	Matrix	Sampled	Type
6041166-01	16042114-001 MW29	Ground Water	04/21/16 09:00	
6041166-02	16042114-002 MW28	Ground Water	04/21/16 09:20	
6041166-03	16042114-003 MW18	Ground Water	04/21/16 09:38	
6041166-04	16042114-004 MW25	Ground Water	04/21/16 09:48	
6041166-05	16042114-005 MW23	Ground Water	04/21/16 10:01	
6041166-06	16042114-006 MW24	Ground Water	04/21/16 10:14	
6041166-07	16042114-007 MW21	Ground Water	04/21/16 10:27	
6041166-08	16042114-008 MW16	Ground Water	04/21/16 10:42	
6041166-09	16042114-009 MW33	Ground Water	04/21/16 10:56	
6041166-10	16042114-010 MW34	Ground Water	04/21/16 11:07	
6041166-11	16042114-011 MW35	Ground Water	04/21/16 11:20	

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Rogers & Callcott ENVIRONMENTAL

Phase Separation Science, Inc.		Project:	Routine
6630 Baltimore National Pike		Work Order:	6041166
Baltimore, MD 21228		Reported:	06/15/16 08:02

Sample Data

Sample Number 6041166-01
Sample Description 16042114-001 MW29 collected on 04/21/16 09:00

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	ND	1.40	mg/L	1.00	06/02/16 15:22	SM 5540D-2011		SGM	B6F0571

Sample Number 6041166-02
Sample Description 16042114-002 MW28 collected on 04/21/16 09:20

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	ND	1.40	mg/L	1.00	06/02/16 14:41	SM 5540D-2011		SGM	B6F0571

Sample Number 6041166-03
Sample Description 16042114-003 MW18 collected on 04/21/16 09:38

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	ND	1.40	mg/L	1.00	06/02/16 13:58	SM 5540D-2011		SGM	B6F0571

Sample Number 6041166-04
Sample Description 16042114-004 MW25 collected on 04/21/16 09:48

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	ND	1.40	mg/L	1.00	06/02/16 11:20	SM 5540D-2011		SGM	B6F0571

Sample Number 6041166-05
Sample Description 16042114-005 MW23 collected on 04/21/16 10:01

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	ND	1.40	mg/L	1.00	06/02/16 10:33	SM 5540D-2011		SGM	B6F0571

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Rogers & Callcott ENVIRONMENTAL

Phase Separation Science, Inc.		Project:	Routine
6630 Baltimore National Pike		Work Order:	6041166
Baltimore, MD 21228		Reported:	06/15/16 08:02

Sample Number 6041166-06
Sample Description 16042114-006 MW24 collected on 04/21/16 10:14

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	ND	1.40	mg/L	1.00	06/02/16 09:30	SM 5540D-2011		SGM	B6F0571

Sample Number 6041166-07
Sample Description 16042114-007 MW21 collected on 04/21/16 10:27

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	ND	1.40	mg/L	1.00	06/02/16 08:40	SM 5540D-2011		SGM	B6F0571

Sample Number 6041166-08
Sample Description 16042114-008 MW16 collected on 04/21/16 10:42

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	ND	1.40	mg/L	1.00	05/31/16 15:20	SM 5540D-2011		SGM	B6F0571

Sample Number 6041166-09
Sample Description 16042114-009 MW33 collected on 04/21/16 10:56

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	ND	1.40	mg/L	1.00	06/07/16 13:40	SM 5540D-2011		SGM	B6F0571

Sample Number 6041166-10
Sample Description 16042114-010 MW34 collected on 04/21/16 11:07

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	ND	1.40	mg/L	1.00	06/07/16 09:30	SM 5540D-2011		SGM	B6F0571

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Rogers & Callcott ENVIRONMENTAL

Phase Separation Science, Inc.		Project:	Routine
6630 Baltimore National Pike		Work Order:	6041166
Baltimore, MD 21228		Reported:	06/15/16 08:02

Sample Number 6041166-11
Sample Description 16042114-011 MW35 collected on 04/21/16 11:20

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	ND	1.40	mg/L	1.00	06/09/16 16:15	SM 5540D-2011		SGM	B6F0571

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Data Qualifiers and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not reported

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604/166

Chain of Custody Form for Subcontracted Analyses

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

For Questions or issues please contact: Lynn Jackson

W.O. No. : **16042114**
P.O. No. :
Project Number : N/A
Report To LOD : No

Report Due On :04/28/16 05:00

Samples Transferred To:
Rogers & Callcott Environmental
PO Box 5655
Greenville, SC 29606

Shipping address is 426 Fairforest Way Greenville,
Phone : 1-866-805-9596

	Lab Sample ID	Field Sample ID	Date Sampled	Time Sampled	Matrix	Analyses Required	Method	Type of Container	Preservative
-01	16042114-001	MW 29	04/21/16	09:00	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
-02	16042114-002	MW 28	04/21/16	09:20	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
-03	16042114-003	MW 18	04/21/16	09:38	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
-04	16042114-004	MW 25	04/21/16	09:48	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
-05	16042114-005	MW 23	04/21/16	10:01	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
-06	16042114-006	MW 24	04/21/16	10:14	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
-07	16042114-007	MW 21	04/21/16	10:27	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
-08	16042114-008	MW 16	04/21/16	10:42	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
-09	16042114-009	MW 33	04/21/16	10:56	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
-10	16042114-010	MW 34	04/21/16	11:07	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
-11	16042114-011	MW 35	04/21/16	11:20	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
-12	16042114-012	MW 20	04/21/16	11:34	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
-13	16042114-013	MW 19	04/21/16	11:47	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
-14	16042114-014	MW 12	04/21/16	12:00	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL

Data Deliverables Required: COA

Perform Q.C. on Sample :

Send Report Attn : reporting@phaseonline.com

Send InvoiceAttn : invoicing@phaseonline.com

Airbill No.: Carrier : UPS

Condition Upon Receipt :

Comments :

Samples Relinquished By : UPS Date : 4/26/16 Time 0930 Samples Received By :

Samples Relinquished By: Date : Time : Samples Received By:

Samples Relinquished By: Date: Time: Samples Received By:

Coolers rec'd @ 1.0°C, 1.8°C, + 0.8°C

FOR LAB USE ONLY

Rogers & Callcott
ENVIRONMENTAL

Sample Receipt Verification

6041166

Client: Phase

Date Received: 4.26.16

Work Order: ~~6041165~~ 4/26/16

Carrier Name: Client FedEx UPS US Mail Courier Field Services Other:

Tracking Number: 1Z2313E40160199952 1.0 / 1Z2313E40158720338 1.8 / 1Z2313E40159745140 0.8

Receipt Criteria	Yes	No	NA	Comments
Shipping container / cooler intact?	X			Damaged Leaking Other:
Custody seals intact?			X	
COC included with samples?	X			
COC signed when relinquished and received?	X			
Sample bottles intact?	X			Damaged Leaking Other:
Sample ID on COC agree with label on bottle(s)?	X			
Date / time on COC agree with label on bottle(s)?	X			
Number of bottles on COC agrees with number of bottles received?	X			
Samples received within holding time?			X	no published holding time
Sample volume sufficient for analysis?	X			
VOA vials free of headspace (<6mm bubble)?			X	
Samples cooled? Temp at receipt recorded on COC; Temp measured with IR thermometer - SN: 97050067	X			Ice Cold Packs Dry Ice None
Samples requiring pH preservation at proper pH? Note: Samples for metals analysis may be preserved upon receipt in the lab.			X	
Samples dechlorinated for parameters requiring chlorine removal at the time of sample collection?			X	

If in-house preservation used – record Lot #			
HCL		H_3PO_4	
H_2SO_4		NaOH	
HNO_3		Other	

Comments:

Were non-conformance issues noted at sample receipt? Yes or No

Non-Conformance issue other than noted above:

Revised July 2014

Completed by: SP

Rogers & Callcott ENVIRONMENTAL

Laboratory Services

Laboratory Report

Client	Phase Separation Science, Inc. Lynn Jackson 6630 Baltimore National Pike Baltimore, MD 21228	**Project:** **Work Order:** **Received:**	Routine 6041166 04/26/2016 09:30

Dear Client:

Rogers and Callcott appreciates the opportunity to be of service to you. The attached laboratory services report includes analytical results and chain of custody for samples that were received on April 26, 2016. Rogers and Callcott maintains a formal QA/QC program. Unless otherwise noted, all analyses performed under NELAP certification have complied with all the requirements for the TNI standard. The analyses met the QA/QC confidence interval for each test method unless otherwise qualified. Estimated uncertainty is available upon request.

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We strive to provide excellent service to our clients. Please contact Melissa Riddle, your Project Manager, at melissa.riddle@rogersandcallcott.com or (864)-232-1556 if you have any questions about this report.

Report Approved By:

Melissa M Riddle

Melissa Riddle
Project Manager

PO Box 5655 | Greenville, SC 29606 | 426 Fairforest Way | Greenville, SC 29607 | main 864.232.1556 | fax 864.232.6140 rogersandcallcott.com
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Rogers & Callcott ENVIRONMENTAL

Certificate of Analysis

South Carolina Greenville Laboratory Identification 23105
South Carolina Columbia Laboratory Identification 40572
North Carolina Laboratory Certification Number 27
North Carolina Drinking Water Lab Number 45710
NELAP Utah Certificate Number SC000042014-1
Georgia Drinking Water Lab ID 880

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

Project: Routine
Work Order: 6041166
Received: 04/26/2016 09:30

Sample Number	Sample Description	Matrix	Sampled	Type
6041166-12	16042114-012 MW20	Ground Water	04/21/16 11:34	
6041166-13	16042114-013 MW19	Ground Water	04/21/16 11:47	
6041166-14	16042114-014 MW12	Ground Water	04/21/16 12:00	

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Rogers & Callcott ENVIRONMENTAL

Phase Separation Science, Inc.		Project:	Routine
6630 Baltimore National Pike		Work Order:	6041166
Baltimore, MD 21228		Reported:	06/24/16 07:43

Sample Data

Sample Number 6041166-12
Sample Description 16042114-012 MW20 collected on 04/21/16 11:34

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	**142**	35.0	mg/L	25.0	06/10/16 08:45	SM 5540D-2011		SGM	B6F0912

Sample Number 6041166-13
Sample Description 16042114-013 MW19 collected on 04/21/16 11:47

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	ND	1.40	mg/L	1.00	06/10/16 09:40	SM 5540D-2011		SGM	B6F0912

Sample Number 6041166-14
Sample Description 16042114-014 MW12 collected on 04/21/16 12:00

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	ND	1.40	mg/L	1.00	06/10/16 10:30	SM 5540D-2011		SGM	B6F0912

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Data Qualifiers and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not reported

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604/166

Chain of Custody Form for Subcontracted Analyses

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

For Questions or issues please contact: Lynn Jackson

W.O. No. : **16042114**
P.O. No. :
Project Number : N/A
Report To LOD : No

Report Due On :04/28/16 05:00

Samples Transferred To:
Rogers & Callcott Environmental
PO Box 5655
Greenville, SC 29606

Shipping address is 426 Fairforest Way Greenville,
Phone : 1-866-805-9596

	Lab Sample ID	Field Sample ID	Date Sampled	Time Sampled	Matrix	Analyses Required	Method	Type of Container	Preservative
-01	16042114-001	MW 29	04/21/16	09:00	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
-02	16042114-002	MW 28	04/21/16	09:20	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
-03	16042114-003	MW 18	04/21/16	09:38	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
-04	16042114-004	MW 25	04/21/16	09:48	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
-05	16042114-005	MW 23	04/21/16	10:01	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
-06	16042114-006	MW 24	04/21/16	10:14	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
-07	16042114-007	MW 21	04/21/16	10:27	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
-08	16042114-008	MW 16	04/21/16	10:42	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
-09	16042114-009	MW 33	04/21/16	10:56	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
-10	16042114-010	MW 34	04/21/16	11:07	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
-11	16042114-011	MW 35	04/21/16	11:20	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
-12	16042114-012	MW 20	04/21/16	11:34	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
-13	16042114-013	MW 19	04/21/16	11:47	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
-14	16042114-014	MW 12	04/21/16	12:00	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL

Data Deliverables Required: COA

Perform Q.C. on Sample :

Send Report Attn : reporting@phaseonline.com

Send InvoiceAttn : invoicing@phaseonline.com

Airbill No.: Carrier : UPS

Condition Upon Receipt :

Comments :

Samples Relinquished By : UPS Date : 4/26/16 Time 0930 Samples Received By :

Samples Relinquished By: Date : Time : Samples Received By:

Samples Relinquished By: Date: Time: Samples Received By:

Coolers rec'd @ 1.0°C, 1.8°C, + 0.8°C

FOR LAB USE ONLY

Rogers & Callcott
ENVIRONMENTAL

Sample Receipt Verification

Client: Phase

Date Received: 4.26.16

Work Order: ~~6041165~~ 6041166 8 4/26/16

Carrier Name: Client FedEx UPS US Mail Courier Field Services Other:

Tracking Number: 1Z2313E40160199952 1.0 / 1Z2313E40158720338 1.8 / 1Z2313E40159745140 0.8

Receipt Criteria	Yes	No	NA	Comments
Shipping container / cooler intact?	X			Damaged Leaking Other:
Custody seals intact?			X	
COC included with samples?	X			
COC signed when relinquished and received?	X			
Sample bottles intact?	X			Damaged Leaking Other:
Sample ID on COC agree with label on bottle(s)?	X			
Date / time on COC agree with label on bottle(s)?	X			
Number of bottles on COC agrees with number of bottles received?	X			
Samples received within holding time?			X	no published holding time
Sample volume sufficient for analysis?	X			
VOA vials free of headspace (<6mm bubble)?			X	
Samples cooled? Temp at receipt recorded on COC; Temp measured with IR thermometer - SN: 97050067	X			Ice Cold Packs Dry Ice None
Samples requiring pH preservation at proper pH? Note: Samples for metals analysis may be preserved upon receipt in the lab.			X	
Samples dechlorinated for parameters requiring chlorine removal at the time of sample collection?			X	

If in-house preservation used – record Lot #			
HCL		H_3PO_4	
H_2SO_4		NaOH	
HNO_3		Other	

Comments:

Were non-conformance issues noted at sample receipt? Yes or No

Non-Conformance issue other than noted above:

Revised July 2014

Completed by: SP

Case Narrative Summary

Client Name: UMM Shore Regional Health Chestertown

Project Name: CRHC

Work Order Number(s): 16042114

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.

Matrix spike and matrix spike duplicate analyses may not be performed due to insufficient sample quantity. In these instances, a laboratory control sample and laboratory control sample duplicate are analyzed unless otherwise noted or specified in the method.

Sample Receipt:

All sample receipt conditions were acceptable.

Analyses associated with analyst code 4056 were performed by Rogers & Callcott Environmental - UT SC00004

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

SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

PHASE SEPARATION SCIENCE, INC.

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

(1)
*CLIENT: UMM *OFFICE LOC. Wilmington DE
*PROJECT MGR: Ken Hannon *PHONE NO.: (302) 656-9600
EMAIL: khannon@bricketfield.com FAX NO.: ( )
*PROJECT NAME: CRHC PROJECT NO.:
SITE LOCATION: Chestertown, MD P.O. NO.:
SAMPLER(S): M. Cracker N. Bradley DW CERT NO.:

PSS Work Order #: 16042114 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) * Sulfate SM 5540D	REMARKS
1	MW 29	4/21/16	0900	GW	1	G		X	
2	MW 28		0920	GW	1	G		X	
3	MW 18		0938	GW	1	G		X	
4	MW 25		0948	GW	1	G		X	
5	MW 23		1001	GW	1	G		X	
6	MW 24		1014	GW	1	G		X	
7	MW 21		1027	GW	1	G		X	
8	MW 16		1042	GW	1	G		X	
9	MW 33		1056	GW	1	G		X	
10	MW 34		1107	GW	1	G		X	

(5)

Relinquished By:	Date	Time	Received By:
(1)	4/21/16	1215	IVETAN PAVLOV
(2)	4/21	1420	
(3)			
(4)			

(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 ____

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: PRES Temp: 7°C
Shipping Carrier: TTE

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: UMM *OFFICE LOC. Wilmington, DE

*PROJECT MGR: Ken Hanson *PHONE NO.: (302) 656-9600

EMAIL: khanson@brightheirs.com FAX NO.: ( )

*PROJECT NAME: CPHC PROJECT NO.:

SITE LOCATION: Chestertown, MD P.O. NO.:

SAMPLER(S): M. Crosby, R. Barkla DW CERT NO.:

PSS Work Order #: 16042114 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	Preservatives Used: None	Analysis/ Method Required (3) * Sulfate EPA 300.0	Sulfate EPA 300.0										REMARKS
11	MW 35	4/21/16	1120	GW	1	G		X											
12	MW 20		1134	GW	1	G		X											
13	MW 19		1147	GW	1	G		X											
14	MW 12		1200	GW	1	G		X											

(5)

Relinquished By:	Date	Time	Received By:
(1)	4/21/16	1215	TSVETAN PAVLOV
(2)	4/21	1420	
(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: 1

Custody Seal: ABS

Ice Present: PRES Temp: 7°C

Shipping Carrier: TTE

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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 #	16042114	**Received By**	Rachel Davis
Client Name	UMM Shore Regional Health Chester	**Date Received**	04/21/2016 02:20:00 PM
Project Name	CRHC	**Delivered By**	Trans Time Express
Disposal Date	05/26/2016	**Tracking No**	Not Applicable
		Logged In By	Thomas Wingate

Shipping Container(s)

No. of Coolers 1

		Ice	Present
Custody Seal(s) Intact?	N/A	Temp (deg C)	7
Seal(s) Signed / Dated?	N/A	Temp Blank Present	No

Documentation

		Sampler Name	M. Craskay N. Bradl
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 14

Total No. of Containers Received 14

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.

Samples Inspected/Checklist Completed By: Thomas Wingate — Date: 04/21/2016

PM Review and Approval: Betsy Colson — Date: 06/24/2016

Analytical Report for

UMM Shore Regional Health Chestertown

Certificate of Analysis No.: 16042215

Project Manager: Ken Hannon

Project Name : CRHC

Project Location: Chestertown, MD

May 6, 2016

Phase Separation Science, Inc.

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Baltimore, MD 21228
Phone: (410) 747-8770
Fax: (410) 788-8723

OFFICES:
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FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.

May 6, 2016

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

Reference: PSS Work Order(s) No: **16042215**
Project Name: CRHC
Project Location: Chestertown, MD

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 **16042215**.

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 May 27, 2016, with the exception of air canisters which are cleaned immediately following analysis. 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 Chestertown

Project Name: CRHC

Work Order Number(s): 16042215

The following samples were received under chain of custody by Phase Separation Science (PSS) on 04/22/2016 at 02:45 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
16042215-001	RW 2D	GROUND WATER	04/21/16 12:35
16042215-002	RW 3B	GROUND WATER	04/21/16 12:40
16042215-003	RW 4	GROUND WATER	04/21/16 12:45
16042215-004	RW 5	GROUND WATER	04/21/16 12:50
16042215-005	RW 6	GROUND WATER	04/21/16 12:55
16042215-006	MW 22	GROUND WATER	04/21/16 13:00
16042215-007	MW 14	GROUND WATER	04/22/16 11:20
16042215-008	MW 9	GROUND WATER	04/22/16 11:10
16042215-009	MW 40	GROUND WATER	04/22/16 09:42
16042215-010	MW 11	GROUND WATER	04/22/16 10:00
16042215-011	MW 32	GROUND WATER	04/22/16 10:35
16042215-012	MW 15	GROUND WATER	04/22/16 09:10
16042215-013	Sys Eff	GROUND WATER	04/22/16 12:00
16042215-014	MW 41	GROUND WATER	04/22/16 10:02
16042215-015	MW 3	GROUND WATER	04/22/16 10:12
16042215-016	MW 4	GROUND WATER	04/22/16 10:15
16042215-017	MW 2	GROUND WATER	04/22/16 10:24
16042215-018	MW 1	GROUND WATER	04/22/16 10:26
16042215-019	MW 31R	GROUND WATER	04/22/16 11:50
16042215-020	MW 17	GROUND WATER	04/22/16 09:02
16042215-021	MW 47	GROUND WATER	04/22/16 11:35
16042215-022	MW 49	GROUND WATER	04/22/16 09:32
16042215-023	MW 48	GROUND WATER	04/22/16 09:29
16042215-024	MW 50	GROUND WATER	04/22/16 09:20
16042215-025	MW 10R	GROUND WATER	04/22/16 11:30
16042215-026	MW 43	GROUND WATER	04/22/16 10:37
16042215-027	MW 42	GROUND WATER	04/22/16 10:53
16042215-028	MW 45	GROUND WATER	04/22/16 11:40
16042215-029	MW 46	GROUND WATER	04/22/16 10:55
16042215-030	MW 5	GROUND WATER	04/22/16 11:05
16042215-031	MW 37	GROUND WATER	04/22/16 09:40
16042215-032	MW 44	GROUND WATER	04/22/16 11:03
16042215-033	MW 13	GROUND WATER	04/22/16 09:00

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.

Sample Summary

Client Name: UMM Shore Regional Health Chestertown

Project Name: CRHC

Work Order Number(s): 16042215

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)].
7. Method 180.1, The Determination of Turbidity by Nephelometry, recommends samples over 40 NTU be diluted until the turbidity falls below 40 units. Routine samples over 40 NTU may not be diluted as long as the data quality objectives are not affected.
8. Alkalinity results analyzed by EPA 310.2 that are reported by dilution are estimated and are not in compliance with method requirements.

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 MDL.
MDL	This is the Laboratory Method Detection Limit which is equivalent to the Limit of Detection (LOD). The LOD is an estimate of the minimum amount of a substance that an analytical process can reliably detect. This value will remain constant across multiple similar instrumentation and among different analysts. 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:
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ROUTE 40 WEST
BALTIMORE, MD 21228
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800-932-9047
FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: RW 2D **Date/Time Sampled: 04/21/2016 12:35** **PSS Sample ID: 16042215-001**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

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	04/25/16	04/26/16 17:00	1055

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: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: RW 2D **Date/Time Sampled: 04/21/2016 12:35** **PSS Sample ID: 16042215-001**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	10		1	04/25/16	04/25/16 13:31	1011
tert-Amyl alcohol	ND	ug/L	20		1	04/25/16	04/25/16 13:31	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	04/25/16	04/25/16 13:31	1011
tert-Amyl methyl ether	ND	ug/L	10		1	04/25/16	04/25/16 13:31	1011
Benzene	ND	ug/L	1.0		1	04/25/16	04/25/16 13:31	1011
Bromochloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 13:31	1011
Bromodichloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 13:31	1011
Bromoform	ND	ug/L	5.0		1	04/25/16	04/25/16 13:31	1011
Bromomethane	ND	ug/L	1.0		1	04/25/16	04/25/16 13:31	1011
tert-Butyl alcohol	ND	ug/L	20		1	04/25/16	04/25/16 13:31	1011
2-Butanone (MEK)	ND	ug/L	10		1	04/25/16	04/25/16 13:31	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	04/25/16	04/25/16 13:31	1011
Carbon Disulfide	ND	ug/L	10		1	04/25/16	04/25/16 13:31	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	04/25/16	04/25/16 13:31	1011
Chlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 13:31	1011
Chloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 13:31	1011
Chloroform	ND	ug/L	1.0		1	04/25/16	04/25/16 13:31	1011
Chloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 13:31	1011
Cyclohexane	ND	ug/L	10		1	04/25/16	04/25/16 13:31	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	04/25/16	04/25/16 13:31	1011
Dibromochloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 13:31	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	04/25/16	04/25/16 13:31	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 13:31	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 13:31	1011
Dichlorodifluoromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 13:31	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 13:31	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 13:31	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 13:31	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 13:31	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 13:31	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: RW 2D **Date/Time Sampled: 04/21/2016 12:35** **PSS Sample ID: 16042215-001**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,2-Dichloropropane	ND	ug/L	1.0		1	04/25/16	04/25/16 13:31	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	04/25/16	04/25/16 13:31	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	04/25/16	04/25/16 13:31	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 13:31	1011
Diisopropyl ether	ND	ug/L	10		1	04/25/16	04/25/16 13:31	1011
Ethylbenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 13:31	1011
2-Hexanone	ND	ug/L	10		1	04/25/16	04/25/16 13:31	1011
Isopropylbenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 13:31	1011
Methyl Acetate	ND	ug/L	10		1	04/25/16	04/25/16 13:31	1011
Methylcyclohexane	ND	ug/L	10		1	04/25/16	04/25/16 13:31	1011
Methylene Chloride	ND	ug/L	1.0		1	04/25/16	04/25/16 13:31	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	04/25/16	04/25/16 13:31	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	04/25/16	04/25/16 13:31	1011
Naphthalene	**1.6**	ug/L	1.0		1	04/25/16	04/25/16 13:31	1011
Styrene	ND	ug/L	1.0		1	04/25/16	04/25/16 13:31	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 13:31	1011
Tetrachloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 13:31	1011
Toluene	ND	ug/L	1.0		1	04/25/16	04/25/16 13:31	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 13:31	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 13:31	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 13:31	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 13:31	1011
Trichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 13:31	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	04/25/16	04/25/16 13:31	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 13:31	1011
Vinyl Chloride	ND	ug/L	1.0		1	04/25/16	04/25/16 13:31	1011
m,p-Xylenes	ND	ug/L	2.0		1	04/25/16	04/25/16 13:31	1011
o-Xylene	ND	ug/L	1.0		1	04/25/16	04/25/16 13:31	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: RW 3B **Date/Time Sampled: 04/21/2016 12:40** **PSS Sample ID: 16042215-002**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

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)	**0.19**	mg/L	0.10		1	04/25/16	04/26/16 17:25	1055

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: RW 3B **Date/Time Sampled: 04/21/2016 12:40** **PSS Sample ID: 16042215-002**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	10		1	04/25/16	04/25/16 14:51	1011
tert-Amyl alcohol	ND	ug/L	20		1	04/25/16	04/25/16 14:51	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	04/25/16	04/25/16 14:51	1011
tert-Amyl methyl ether	ND	ug/L	10		1	04/25/16	04/25/16 14:51	1011
Benzene	ND	ug/L	1.0		1	04/25/16	04/25/16 14:51	1011
Bromochloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 14:51	1011
Bromodichloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 14:51	1011
Bromoform	ND	ug/L	5.0		1	04/25/16	04/25/16 14:51	1011
Bromomethane	ND	ug/L	1.0		1	04/25/16	04/25/16 14:51	1011
tert-Butyl alcohol	ND	ug/L	20		1	04/25/16	04/25/16 14:51	1011
2-Butanone (MEK)	ND	ug/L	10		1	04/25/16	04/25/16 14:51	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	04/25/16	04/25/16 14:51	1011
Carbon Disulfide	ND	ug/L	10		1	04/25/16	04/25/16 14:51	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	04/25/16	04/25/16 14:51	1011
Chlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 14:51	1011
Chloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 14:51	1011
Chloroform	ND	ug/L	1.0		1	04/25/16	04/25/16 14:51	1011
Chloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 14:51	1011
Cyclohexane	ND	ug/L	10		1	04/25/16	04/25/16 14:51	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	04/25/16	04/25/16 14:51	1011
Dibromochloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 14:51	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	04/25/16	04/25/16 14:51	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 14:51	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 14:51	1011
Dichlorodifluoromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 14:51	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 14:51	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 14:51	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 14:51	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 14:51	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 14:51	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: RW 3B **Date/Time Sampled: 04/21/2016 12:40** **PSS Sample ID: 16042215-002**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,2-Dichloropropane	ND	ug/L	1.0		1	04/25/16	04/25/16 14:51	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	04/25/16	04/25/16 14:51	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	04/25/16	04/25/16 14:51	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 14:51	1011
Diisopropyl ether	ND	ug/L	10		1	04/25/16	04/25/16 14:51	1011
Ethylbenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 14:51	1011
2-Hexanone	ND	ug/L	10		1	04/25/16	04/25/16 14:51	1011
Isopropylbenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 14:51	1011
Methyl Acetate	ND	ug/L	10		1	04/25/16	04/25/16 14:51	1011
Methylcyclohexane	ND	ug/L	10		1	04/25/16	04/25/16 14:51	1011
Methylene Chloride	ND	ug/L	1.0		1	04/25/16	04/25/16 14:51	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	04/25/16	04/25/16 14:51	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	04/25/16	04/25/16 14:51	1011
Naphthalene	ND	ug/L	1.0		1	04/25/16	04/25/16 14:51	1011
Styrene	ND	ug/L	1.0		1	04/25/16	04/25/16 14:51	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 14:51	1011
Tetrachloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 14:51	1011
Toluene	ND	ug/L	1.0		1	04/25/16	04/25/16 14:51	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 14:51	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 14:51	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 14:51	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 14:51	1011
Trichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 14:51	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	04/25/16	04/25/16 14:51	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 14:51	1011
Vinyl Chloride	ND	ug/L	1.0		1	04/25/16	04/25/16 14:51	1011
m,p-Xylenes	ND	ug/L	2.0		1	04/25/16	04/25/16 14:51	1011
o-Xylene	ND	ug/L	1.0		1	04/25/16	04/25/16 14:51	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: RW 4 **Date/Time Sampled: 04/21/2016 12:45** **PSS Sample ID: 16042215-003**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

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)	**0.18**	mg/L	0.10		1	04/25/16	04/26/16 17:25	1055

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: RW 4 **Date/Time Sampled: 04/21/2016 12:45** **PSS Sample ID: 16042215-003**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	10		1	04/25/16	04/25/16 16:10	1011
tert-Amyl alcohol	ND	ug/L	20		1	04/25/16	04/25/16 16:10	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	04/25/16	04/25/16 16:10	1011
tert-Amyl methyl ether	ND	ug/L	10		1	04/25/16	04/25/16 16:10	1011
Benzene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:10	1011
Bromochloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:10	1011
Bromodichloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:10	1011
Bromoform	ND	ug/L	5.0		1	04/25/16	04/25/16 16:10	1011
Bromomethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:10	1011
tert-Butyl alcohol	ND	ug/L	20		1	04/25/16	04/25/16 16:10	1011
2-Butanone (MEK)	ND	ug/L	10		1	04/25/16	04/25/16 16:10	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	04/25/16	04/25/16 16:10	1011
Carbon Disulfide	ND	ug/L	10		1	04/25/16	04/25/16 16:10	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	04/25/16	04/25/16 16:10	1011
Chlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:10	1011
Chloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:10	1011
Chloroform	ND	ug/L	1.0		1	04/25/16	04/25/16 16:10	1011
Chloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:10	1011
Cyclohexane	ND	ug/L	10		1	04/25/16	04/25/16 16:10	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	04/25/16	04/25/16 16:10	1011
Dibromochloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:10	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	04/25/16	04/25/16 16:10	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:10	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:10	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:10	1011
Dichlorodifluoromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:10	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:10	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:10	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:10	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:10	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: RW 4 **Date/Time Sampled: 04/21/2016 12:45** **PSS Sample ID: 16042215-003**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,2-Dichloropropane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:10	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:10	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:10	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:10	1011
Diisopropyl ether	ND	ug/L	10		1	04/25/16	04/25/16 16:10	1011
Ethylbenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:10	1011
2-Hexanone	ND	ug/L	10		1	04/25/16	04/25/16 16:10	1011
Isopropylbenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:10	1011
Methyl Acetate	ND	ug/L	10		1	04/25/16	04/25/16 16:10	1011
Methylcyclohexane	ND	ug/L	10		1	04/25/16	04/25/16 16:10	1011
Methylene Chloride	ND	ug/L	1.0		1	04/25/16	04/25/16 16:10	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	04/25/16	04/25/16 16:10	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	04/25/16	04/25/16 16:10	1011
Naphthalene	**1.3**	ug/L	1.0		1	04/25/16	04/25/16 16:10	1011
Styrene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:10	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:10	1011
Tetrachloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:10	1011
Toluene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:10	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:10	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:10	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:10	1011
Trichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:10	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:10	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	04/25/16	04/25/16 16:10	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:10	1011
Vinyl Chloride	ND	ug/L	1.0		1	04/25/16	04/25/16 16:10	1011
m,p-Xylenes	ND	ug/L	2.0		1	04/25/16	04/25/16 16:10	1011
o-Xylene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:10	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: RW 5 **Date/Time Sampled: 04/21/2016 12:50** **PSS Sample ID: 16042215-004**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

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)	**0.21**	mg/L	0.10		1	04/25/16	04/26/16 17:51	1055

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: RW 5 **Date/Time Sampled: 04/21/2016 12:50** **PSS Sample ID: 16042215-004**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	10		1	04/25/16	04/25/16 16:50	1011
tert-Amyl alcohol	ND	ug/L	20		1	04/25/16	04/25/16 16:50	1011
tert-Amyl methyl ether	ND	ug/L	10		1	04/25/16	04/25/16 16:50	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	04/25/16	04/25/16 16:50	1011
Benzene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:50	1011
Bromochloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:50	1011
Bromodichloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:50	1011
Bromoform	ND	ug/L	5.0		1	04/25/16	04/25/16 16:50	1011
Bromomethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:50	1011
tert-Butyl alcohol	ND	ug/L	20		1	04/25/16	04/25/16 16:50	1011
2-Butanone (MEK)	ND	ug/L	10		1	04/25/16	04/25/16 16:50	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	04/25/16	04/25/16 16:50	1011
Carbon Disulfide	ND	ug/L	10		1	04/25/16	04/25/16 16:50	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	04/25/16	04/25/16 16:50	1011
Chlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:50	1011
Chloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:50	1011
Chloroform	ND	ug/L	1.0		1	04/25/16	04/25/16 16:50	1011
Chloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:50	1011
Cyclohexane	ND	ug/L	10		1	04/25/16	04/25/16 16:50	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	04/25/16	04/25/16 16:50	1011
Dibromochloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:50	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	04/25/16	04/25/16 16:50	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:50	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:50	1011
Dichlorodifluoromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:50	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:50	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:50	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:50	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:50	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:50	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: RW 5 **Date/Time Sampled: 04/21/2016 12:50** **PSS Sample ID: 16042215-004**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,2-Dichloropropane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:50	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:50	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:50	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:50	1011
Diisopropyl ether	ND	ug/L	10		1	04/25/16	04/25/16 16:50	1011
Ethylbenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:50	1011
2-Hexanone	ND	ug/L	10		1	04/25/16	04/25/16 16:50	1011
Isopropylbenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:50	1011
Methyl Acetate	ND	ug/L	10		1	04/25/16	04/25/16 16:50	1011
Methylcyclohexane	ND	ug/L	10		1	04/25/16	04/25/16 16:50	1011
Methylene Chloride	ND	ug/L	1.0		1	04/25/16	04/25/16 16:50	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	04/25/16	04/25/16 16:50	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	04/25/16	04/25/16 16:50	1011
Naphthalene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:50	1011
Styrene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:50	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:50	1011
Tetrachloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:50	1011
Toluene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:50	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:50	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:50	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:50	1011
Trichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:50	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:50	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	04/25/16	04/25/16 16:50	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:50	1011
Vinyl Chloride	ND	ug/L	1.0		1	04/25/16	04/25/16 16:50	1011
m,p-Xylenes	ND	ug/L	2.0		1	04/25/16	04/25/16 16:50	1011
o-Xylene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:50	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: RW 6 **Date/Time Sampled: 04/21/2016 12:55** **PSS Sample ID: 16042215-005**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

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	04/25/16	04/26/16 18:16	1055

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: RW 6 **Date/Time Sampled: 04/21/2016 12:55** **PSS Sample ID: 16042215-005**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	10		1	04/25/16	04/25/16 17:30	1011
tert-Amyl alcohol	ND	ug/L	20		1	04/25/16	04/25/16 17:30	1011
tert-Amyl methyl ether	ND	ug/L	10		1	04/25/16	04/25/16 17:30	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	04/25/16	04/25/16 17:30	1011
Benzene	ND	ug/L	1.0		1	04/25/16	04/25/16 17:30	1011
Bromochloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 17:30	1011
Bromodichloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 17:30	1011
Bromoform	ND	ug/L	5.0		1	04/25/16	04/25/16 17:30	1011
Bromomethane	ND	ug/L	1.0		1	04/25/16	04/25/16 17:30	1011
tert-Butyl alcohol	ND	ug/L	20		1	04/25/16	04/25/16 17:30	1011
2-Butanone (MEK)	ND	ug/L	10		1	04/25/16	04/25/16 17:30	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	04/25/16	04/25/16 17:30	1011
Carbon Disulfide	ND	ug/L	10		1	04/25/16	04/25/16 17:30	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	04/25/16	04/25/16 17:30	1011
Chlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 17:30	1011
Chloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 17:30	1011
Chloroform	ND	ug/L	1.0		1	04/25/16	04/25/16 17:30	1011
Chloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 17:30	1011
Cyclohexane	ND	ug/L	10		1	04/25/16	04/25/16 17:30	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	04/25/16	04/25/16 17:30	1011
Dibromochloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 17:30	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	04/25/16	04/25/16 17:30	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 17:30	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 17:30	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 17:30	1011
Dichlorodifluoromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 17:30	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 17:30	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 17:30	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 17:30	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 17:30	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: RW 6 **Date/Time Sampled: 04/21/2016 12:55** **PSS Sample ID: 16042215-005**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,2-Dichloropropane	ND	ug/L	1.0		1	04/25/16	04/25/16 17:30	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	04/25/16	04/25/16 17:30	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	04/25/16	04/25/16 17:30	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 17:30	1011
Diisopropyl ether	ND	ug/L	10		1	04/25/16	04/25/16 17:30	1011
Ethylbenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 17:30	1011
2-Hexanone	ND	ug/L	10		1	04/25/16	04/25/16 17:30	1011
Isopropylbenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 17:30	1011
Methyl Acetate	ND	ug/L	10		1	04/25/16	04/25/16 17:30	1011
Methylcyclohexane	ND	ug/L	10		1	04/25/16	04/25/16 17:30	1011
Methylene Chloride	ND	ug/L	1.0		1	04/25/16	04/25/16 17:30	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	04/25/16	04/25/16 17:30	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	04/25/16	04/25/16 17:30	1011
Naphthalene	**1.1**	ug/L	1.0		1	04/25/16	04/25/16 17:30	1011
Styrene	ND	ug/L	1.0		1	04/25/16	04/25/16 17:30	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 17:30	1011
Tetrachloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 17:30	1011
Toluene	ND	ug/L	1.0		1	04/25/16	04/25/16 17:30	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 17:30	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 17:30	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 17:30	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 17:30	1011
Trichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 17:30	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	04/25/16	04/25/16 17:30	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 17:30	1011
Vinyl Chloride	ND	ug/L	1.0		1	04/25/16	04/25/16 17:30	1011
m,p-Xylenes	ND	ug/L	2.0		1	04/25/16	04/25/16 17:30	1011
o-Xylene	ND	ug/L	1.0		1	04/25/16	04/25/16 17:30	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 22 **Date/Time Sampled: 04/21/2016 13:00** **PSS Sample ID: 16042215-006**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

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)	**0.23**	mg/L	0.10		1	04/25/16	04/26/16 18:41	1055

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CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 22 **Date/Time Sampled: 04/21/2016 13:00** **PSS Sample ID: 16042215-006**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	10		1	04/25/16	04/25/16 18:10	1011
tert-Amyl alcohol	ND	ug/L	20		1	04/25/16	04/25/16 18:10	1011
tert-Amyl methyl ether	ND	ug/L	10		1	04/25/16	04/25/16 18:10	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	04/25/16	04/25/16 18:10	1011
Benzene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:10	1011
Bromochloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 18:10	1011
Bromodichloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 18:10	1011
Bromoform	ND	ug/L	5.0		1	04/25/16	04/25/16 18:10	1011
Bromomethane	ND	ug/L	1.0		1	04/25/16	04/25/16 18:10	1011
tert-Butyl alcohol	ND	ug/L	20		1	04/25/16	04/25/16 18:10	1011
2-Butanone (MEK)	ND	ug/L	10		1	04/25/16	04/25/16 18:10	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	04/25/16	04/25/16 18:10	1011
Carbon Disulfide	ND	ug/L	10		1	04/25/16	04/25/16 18:10	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	04/25/16	04/25/16 18:10	1011
Chlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:10	1011
Chloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 18:10	1011
Chloroform	ND	ug/L	1.0		1	04/25/16	04/25/16 18:10	1011
Chloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 18:10	1011
Cyclohexane	ND	ug/L	10		1	04/25/16	04/25/16 18:10	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	04/25/16	04/25/16 18:10	1011
Dibromochloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 18:10	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	04/25/16	04/25/16 18:10	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:10	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:10	1011
Dichlorodifluoromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 18:10	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:10	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 18:10	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 18:10	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:10	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:10	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 22 **Date/Time Sampled: 04/21/2016 13:00** **PSS Sample ID: 16042215-006**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,2-Dichloropropane	ND	ug/L	1.0		1	04/25/16	04/25/16 18:10	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:10	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:10	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:10	1011
Diisopropyl ether	ND	ug/L	10		1	04/25/16	04/25/16 18:10	1011
Ethylbenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:10	1011
2-Hexanone	ND	ug/L	10		1	04/25/16	04/25/16 18:10	1011
Isopropylbenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:10	1011
Methyl Acetate	ND	ug/L	10		1	04/25/16	04/25/16 18:10	1011
Methylcyclohexane	ND	ug/L	10		1	04/25/16	04/25/16 18:10	1011
Methylene Chloride	ND	ug/L	1.0		1	04/25/16	04/25/16 18:10	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	04/25/16	04/25/16 18:10	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	04/25/16	04/25/16 18:10	1011
Naphthalene	**1.3**	ug/L	1.0		1	04/25/16	04/25/16 18:10	1011
Styrene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:10	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 18:10	1011
Tetrachloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:10	1011
Toluene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:10	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:10	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:10	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 18:10	1011
Trichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:10	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 18:10	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	04/25/16	04/25/16 18:10	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 18:10	1011
Vinyl Chloride	ND	ug/L	1.0		1	04/25/16	04/25/16 18:10	1011
m,p-Xylenes	ND	ug/L	2.0		1	04/25/16	04/25/16 18:10	1011
o-Xylene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:10	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 14 **Date/Time Sampled: 04/22/2016 11:20** **PSS Sample ID: 16042215-007**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

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)	**0.97**	mg/L	0.10		1	04/25/16	04/26/16 19:07	1055

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 14 **Date/Time Sampled: 04/22/2016 11:20** **PSS Sample ID: 16042215-007**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	10		1	04/25/16	04/25/16 18:49	1011
tert-Amyl alcohol	ND	ug/L	20		1	04/25/16	04/25/16 18:49	1011
tert-Amyl methyl ether	ND	ug/L	10		1	04/25/16	04/25/16 18:49	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	04/25/16	04/25/16 18:49	1011
Benzene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:49	1011
Bromochloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 18:49	1011
Bromodichloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 18:49	1011
Bromoform	ND	ug/L	5.0		1	04/25/16	04/25/16 18:49	1011
Bromomethane	ND	ug/L	1.0		1	04/25/16	04/25/16 18:49	1011
tert-Butyl alcohol	ND	ug/L	20		1	04/25/16	04/25/16 18:49	1011
2-Butanone (MEK)	ND	ug/L	10		1	04/25/16	04/25/16 18:49	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	04/25/16	04/25/16 18:49	1011
Carbon Disulfide	ND	ug/L	10		1	04/25/16	04/25/16 18:49	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	04/25/16	04/25/16 18:49	1011
Chlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:49	1011
Chloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 18:49	1011
Chloroform	ND	ug/L	1.0		1	04/25/16	04/25/16 18:49	1011
Chloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 18:49	1011
Cyclohexane	ND	ug/L	10		1	04/25/16	04/25/16 18:49	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	04/25/16	04/25/16 18:49	1011
Dibromochloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 18:49	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	04/25/16	04/25/16 18:49	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:49	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:49	1011
Dichlorodifluoromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 18:49	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:49	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 18:49	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 18:49	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:49	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:49	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 14 **Date/Time Sampled: 04/22/2016 11:20** **PSS Sample ID: 16042215-007**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,2-Dichloropropane	ND	ug/L	1.0		1	04/25/16	04/25/16 18:49	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:49	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:49	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:49	1011
Diisopropyl ether	ND	ug/L	10		1	04/25/16	04/25/16 18:49	1011
Ethylbenzene	**1.3**	ug/L	1.0		1	04/25/16	04/25/16 18:49	1011
2-Hexanone	ND	ug/L	10		1	04/25/16	04/25/16 18:49	1011
Isopropylbenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:49	1011
Methyl Acetate	ND	ug/L	10		1	04/25/16	04/25/16 18:49	1011
Methylcyclohexane	ND	ug/L	10		1	04/25/16	04/25/16 18:49	1011
Methylene Chloride	ND	ug/L	1.0		1	04/25/16	04/25/16 18:49	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	04/25/16	04/25/16 18:49	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	04/25/16	04/25/16 18:49	1011
Naphthalene	**10**	ug/L	1.0		1	04/25/16	04/25/16 18:49	1011
Styrene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:49	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 18:49	1011
Tetrachloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:49	1011
Toluene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:49	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:49	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:49	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 18:49	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 18:49	1011
Trichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:49	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	04/25/16	04/25/16 18:49	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 18:49	1011
Vinyl Chloride	ND	ug/L	1.0		1	04/25/16	04/25/16 18:49	1011
m,p-Xylenes	ND	ug/L	2.0		1	04/25/16	04/25/16 18:49	1011
o-Xylene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:49	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 9 **Date/Time Sampled: 04/22/2016 11:10** **PSS Sample ID: 16042215-008**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

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)	**4.0**	mg/L	0.11		1	04/25/16	04/26/16 19:32	1055

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CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 9 **Date/Time Sampled: 04/22/2016 11:10** **PSS Sample ID: 16042215-008**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	**25**	ug/L	10		1	04/25/16	04/25/16 15:31	1011
tert-Amyl alcohol	ND	ug/L	20		1	04/25/16	04/25/16 15:31	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	04/25/16	04/25/16 15:31	1011
tert-Amyl methyl ether	ND	ug/L	10		1	04/25/16	04/25/16 15:31	1011
Benzene	ND	ug/L	1.0		1	04/25/16	04/25/16 15:31	1011
Bromochloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 15:31	1011
Bromodichloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 15:31	1011
Bromoform	ND	ug/L	5.0		1	04/25/16	04/25/16 15:31	1011
Bromomethane	ND	ug/L	1.0		1	04/25/16	04/25/16 15:31	1011
tert-Butyl alcohol	ND	ug/L	20		1	04/25/16	04/25/16 15:31	1011
2-Butanone (MEK)	ND	ug/L	10		1	04/25/16	04/25/16 15:31	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	04/25/16	04/25/16 15:31	1011
Carbon Disulfide	ND	ug/L	10		1	04/25/16	04/25/16 15:31	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	04/25/16	04/25/16 15:31	1011
Chlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 15:31	1011
Chloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 15:31	1011
Chloroform	ND	ug/L	1.0		1	04/25/16	04/25/16 15:31	1011
Chloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 15:31	1011
Cyclohexane	ND	ug/L	10		1	04/25/16	04/25/16 15:31	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	04/25/16	04/25/16 15:31	1011
Dibromochloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 15:31	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	04/25/16	04/25/16 15:31	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 15:31	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 15:31	1011
Dichlorodifluoromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 15:31	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 15:31	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 15:31	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 15:31	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 15:31	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 15:31	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 9 **Date/Time Sampled: 04/22/2016 11:10** **PSS Sample ID: 16042215-008**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,2-Dichloropropane	ND	ug/L	1.0		1	04/25/16	04/25/16 15:31	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	04/25/16	04/25/16 15:31	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	04/25/16	04/25/16 15:31	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 15:31	1011
Diisopropyl ether	ND	ug/L	10		1	04/25/16	04/25/16 15:31	1011
Ethylbenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 15:31	1011
2-Hexanone	ND	ug/L	10		1	04/25/16	04/25/16 15:31	1011
Isopropylbenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 15:31	1011
Methyl Acetate	ND	ug/L	10		1	04/25/16	04/25/16 15:31	1011
Methylcyclohexane	ND	ug/L	10		1	04/25/16	04/25/16 15:31	1011
Methylene Chloride	ND	ug/L	1.0		1	04/25/16	04/25/16 15:31	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	04/25/16	04/25/16 15:31	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	04/25/16	04/25/16 15:31	1011
Naphthalene	**1.9**	ug/L	1.0		1	04/25/16	04/25/16 15:31	1011
Styrene	ND	ug/L	1.0		1	04/25/16	04/25/16 15:31	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 15:31	1011
Tetrachloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 15:31	1011
Toluene	ND	ug/L	1.0		1	04/25/16	04/25/16 15:31	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 15:31	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 15:31	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 15:31	1011
Trichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 15:31	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 15:31	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	04/25/16	04/25/16 15:31	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 15:31	1011
Vinyl Chloride	ND	ug/L	1.0		1	04/25/16	04/25/16 15:31	1011
m,p-Xylenes	ND	ug/L	2.0		1	04/25/16	04/25/16 15:31	1011
o-Xylene	ND	ug/L	1.0		1	04/25/16	04/25/16 15:31	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 40 **Date/Time Sampled: 04/22/2016 09:42** **PSS Sample ID: 16042215-009**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

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)	**0.61**	mg/L	0.10		1	04/25/16	04/26/16 19:57	1055

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 40 **Date/Time Sampled: 04/22/2016 09:42** **PSS Sample ID: 16042215-009**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	10		1	04/25/16	04/25/16 16:17	1011
tert-Amyl alcohol	ND	ug/L	20		1	04/25/16	04/25/16 16:17	1011
tert-Amyl methyl ether	ND	ug/L	10		1	04/25/16	04/25/16 16:17	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	04/25/16	04/25/16 16:17	1011
Benzene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:17	1011
Bromochloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:17	1011
Bromodichloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:17	1011
Bromoform	ND	ug/L	5.0		1	04/25/16	04/25/16 16:17	1011
Bromomethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:17	1011
tert-Butyl alcohol	ND	ug/L	20		1	04/25/16	04/25/16 16:17	1011
2-Butanone (MEK)	ND	ug/L	10		1	04/25/16	04/25/16 16:17	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	04/25/16	04/25/16 16:17	1011
Carbon Disulfide	ND	ug/L	10		1	04/25/16	04/25/16 16:17	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	04/25/16	04/25/16 16:17	1011
Chlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:17	1011
Chloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:17	1011
Chloroform	ND	ug/L	1.0		1	04/25/16	04/25/16 16:17	1011
Chloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:17	1011
Cyclohexane	ND	ug/L	10		1	04/25/16	04/25/16 16:17	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	04/25/16	04/25/16 16:17	1011
Dibromochloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:17	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	04/25/16	04/25/16 16:17	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:17	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:17	1011
Dichlorodifluoromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:17	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:17	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:17	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:17	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:17	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:17	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 40 **Date/Time Sampled: 04/22/2016 09:42** **PSS Sample ID: 16042215-009**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,2-Dichloropropane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:17	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:17	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:17	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:17	1011
Diisopropyl ether	ND	ug/L	10		1	04/25/16	04/25/16 16:17	1011
Ethylbenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:17	1011
2-Hexanone	ND	ug/L	10		1	04/25/16	04/25/16 16:17	1011
Isopropylbenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:17	1011
Methyl Acetate	ND	ug/L	10		1	04/25/16	04/25/16 16:17	1011
Methylcyclohexane	ND	ug/L	10		1	04/25/16	04/25/16 16:17	1011
Methylene Chloride	ND	ug/L	1.0		1	04/25/16	04/25/16 16:17	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	04/25/16	04/25/16 16:17	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	04/25/16	04/25/16 16:17	1011
Naphthalene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:17	1011
Styrene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:17	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:17	1011
Tetrachloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:17	1011
Toluene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:17	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:17	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:17	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:17	1011
Trichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:17	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:17	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	04/25/16	04/25/16 16:17	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:17	1011
Vinyl Chloride	ND	ug/L	1.0		1	04/25/16	04/25/16 16:17	1011
m,p-Xylenes	ND	ug/L	2.0		1	04/25/16	04/25/16 16:17	1011
o-Xylene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:17	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 11 **Date/Time Sampled: 04/22/2016 10:00** **PSS Sample ID: 16042215-010**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

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)	**3.8**	mg/L	0.10		1	04/25/16	04/26/16 20:22	1055

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 11 **Date/Time Sampled: 04/22/2016 10:00** **PSS Sample ID: 16042215-010**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	10		1	04/28/16	04/28/16 13:11	1011
tert-Amyl alcohol	ND	ug/L	20		1	04/28/16	04/28/16 13:11	1011
tert-Amyl methyl ether	ND	ug/L	10		1	04/28/16	04/28/16 13:11	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	04/28/16	04/28/16 13:11	1011
Benzene	ND	ug/L	1.0		1	04/28/16	04/28/16 13:11	1011
Bromochloromethane	ND	ug/L	1.0		1	04/28/16	04/28/16 13:11	1011
Bromodichloromethane	ND	ug/L	1.0		1	04/28/16	04/28/16 13:11	1011
Bromoform	ND	ug/L	5.0		1	04/28/16	04/28/16 13:11	1011
Bromomethane	ND	ug/L	1.0		1	04/28/16	04/28/16 13:11	1011
tert-Butyl alcohol	ND	ug/L	20		1	04/28/16	04/28/16 13:11	1011
2-Butanone (MEK)	ND	ug/L	10		1	04/28/16	04/28/16 13:11	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	04/28/16	04/28/16 13:11	1011
Carbon Disulfide	ND	ug/L	10		1	04/28/16	04/28/16 13:11	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	04/28/16	04/28/16 13:11	1011
Chlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 13:11	1011
Chloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 13:11	1011
Chloroform	ND	ug/L	1.0		1	04/28/16	04/28/16 13:11	1011
Chloromethane	ND	ug/L	1.0		1	04/28/16	04/28/16 13:11	1011
Cyclohexane	ND	ug/L	10		1	04/28/16	04/28/16 13:11	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	04/28/16	04/28/16 13:11	1011
Dibromochloromethane	ND	ug/L	1.0		1	04/28/16	04/28/16 13:11	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	04/28/16	04/28/16 13:11	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 13:11	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 13:11	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 13:11	1011
Dichlorodifluoromethane	ND	ug/L	1.0		1	04/28/16	04/28/16 13:11	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 13:11	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 13:11	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/28/16 13:11	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/28/16 13:11	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 11 **Date/Time Sampled: 04/22/2016 10:00** **PSS Sample ID: 16042215-010**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,2-Dichloropropane	ND	ug/L	1.0		1	04/28/16	04/28/16 13:11	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	04/28/16	04/28/16 13:11	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	04/28/16	04/28/16 13:11	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/28/16 13:11	1011
Diisopropyl ether	ND	ug/L	10		1	04/28/16	04/28/16 13:11	1011
Ethylbenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 13:11	1011
2-Hexanone	ND	ug/L	10		1	04/28/16	04/28/16 13:11	1011
Isopropylbenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 13:11	1011
Methyl Acetate	ND	ug/L	10		1	04/28/16	04/28/16 13:11	1011
Methylcyclohexane	ND	ug/L	10		1	04/28/16	04/28/16 13:11	1011
Methylene Chloride	ND	ug/L	1.0		1	04/28/16	04/28/16 13:11	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	04/28/16	04/28/16 13:11	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	04/28/16	04/28/16 13:11	1011
Naphthalene	ND	ug/L	1.0		1	04/28/16	04/28/16 13:11	1011
Styrene	ND	ug/L	1.0		1	04/28/16	04/28/16 13:11	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 13:11	1011
Tetrachloroethene	ND	ug/L	1.0		1	04/28/16	04/28/16 13:11	1011
Toluene	ND	ug/L	1.0		1	04/28/16	04/28/16 13:11	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 13:11	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 13:11	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 13:11	1011
Trichloroethene	ND	ug/L	1.0		1	04/28/16	04/28/16 13:11	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 13:11	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	04/28/16	04/28/16 13:11	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 13:11	1011
Vinyl Chloride	ND	ug/L	1.0		1	04/28/16	04/28/16 13:11	1011
m,p-Xylenes	ND	ug/L	2.0		1	04/28/16	04/28/16 13:11	1011
o-Xylene	ND	ug/L	1.0		1	04/28/16	04/28/16 13:11	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 32 **Date/Time Sampled: 04/22/2016 10:35** **PSS Sample ID: 16042215-011**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

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)	**0.12**	mg/L	0.11		1	04/25/16	04/26/16 21:13	1055

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 32 **Date/Time Sampled: 04/22/2016 10:35** **PSS Sample ID: 16042215-011**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	10		1	04/25/16	04/25/16 16:59	1011
tert-Amyl alcohol	ND	ug/L	20		1	04/25/16	04/25/16 16:59	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	04/25/16	04/25/16 16:59	1011
tert-Amyl methyl ether	ND	ug/L	10		1	04/25/16	04/25/16 16:59	1011
Benzene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:59	1011
Bromochloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:59	1011
Bromodichloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:59	1011
Bromoform	ND	ug/L	5.0		1	04/25/16	04/25/16 16:59	1011
Bromomethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:59	1011
tert-Butyl alcohol	ND	ug/L	20		1	04/25/16	04/25/16 16:59	1011
2-Butanone (MEK)	ND	ug/L	10		1	04/25/16	04/25/16 16:59	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	04/25/16	04/25/16 16:59	1011
Carbon Disulfide	ND	ug/L	10		1	04/25/16	04/25/16 16:59	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	04/25/16	04/25/16 16:59	1011
Chlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:59	1011
Chloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:59	1011
Chloroform	ND	ug/L	1.0		1	04/25/16	04/25/16 16:59	1011
Chloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:59	1011
Cyclohexane	ND	ug/L	10		1	04/25/16	04/25/16 16:59	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	04/25/16	04/25/16 16:59	1011
Dibromochloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:59	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	04/25/16	04/25/16 16:59	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:59	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:59	1011
Dichlorodifluoromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:59	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:59	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:59	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:59	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:59	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:59	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 32 **Date/Time Sampled: 04/22/2016 10:35** **PSS Sample ID: 16042215-011**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,2-Dichloropropane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:59	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:59	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:59	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:59	1011
Diisopropyl ether	ND	ug/L	10		1	04/25/16	04/25/16 16:59	1011
Ethylbenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:59	1011
2-Hexanone	ND	ug/L	10		1	04/25/16	04/25/16 16:59	1011
Isopropylbenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:59	1011
Methyl Acetate	ND	ug/L	10		1	04/25/16	04/25/16 16:59	1011
Methylcyclohexane	ND	ug/L	10		1	04/25/16	04/25/16 16:59	1011
Methylene Chloride	ND	ug/L	1.0		1	04/25/16	04/25/16 16:59	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	04/25/16	04/25/16 16:59	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	04/25/16	04/25/16 16:59	1011
Naphthalene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:59	1011
Styrene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:59	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:59	1011
Tetrachloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:59	1011
Toluene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:59	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:59	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:59	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:59	1011
Trichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:59	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:59	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	04/25/16	04/25/16 16:59	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 16:59	1011
Vinyl Chloride	ND	ug/L	1.0		1	04/25/16	04/25/16 16:59	1011
m,p-Xylenes	ND	ug/L	2.0		1	04/25/16	04/25/16 16:59	1011
o-Xylene	ND	ug/L	1.0		1	04/25/16	04/25/16 16:59	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 15 **Date/Time Sampled: 04/22/2016 09:10** **PSS Sample ID: 16042215-012**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

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	04/25/16	04/26/16 21:38	1055

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CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 15 **Date/Time Sampled: 04/22/2016 09:10** **PSS Sample ID: 16042215-012**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	10		1	04/25/16	04/25/16 17:40	1011
tert-Amyl alcohol	ND	ug/L	20		1	04/25/16	04/25/16 17:40	1011
tert-Amyl methyl ether	ND	ug/L	10		1	04/25/16	04/25/16 17:40	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	04/25/16	04/25/16 17:40	1011
Benzene	ND	ug/L	1.0		1	04/25/16	04/25/16 17:40	1011
Bromochloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 17:40	1011
Bromodichloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 17:40	1011
Bromoform	ND	ug/L	5.0		1	04/25/16	04/25/16 17:40	1011
Bromomethane	ND	ug/L	1.0		1	04/25/16	04/25/16 17:40	1011
tert-Butyl alcohol	ND	ug/L	20		1	04/25/16	04/25/16 17:40	1011
2-Butanone (MEK)	ND	ug/L	10		1	04/25/16	04/25/16 17:40	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	04/25/16	04/25/16 17:40	1011
Carbon Disulfide	ND	ug/L	10		1	04/25/16	04/25/16 17:40	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	04/25/16	04/25/16 17:40	1011
Chlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 17:40	1011
Chloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 17:40	1011
Chloroform	ND	ug/L	1.0		1	04/25/16	04/25/16 17:40	1011
Chloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 17:40	1011
Cyclohexane	ND	ug/L	10		1	04/25/16	04/25/16 17:40	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	04/25/16	04/25/16 17:40	1011
Dibromochloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 17:40	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	04/25/16	04/25/16 17:40	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 17:40	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 17:40	1011
Dichlorodifluoromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 17:40	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 17:40	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 17:40	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 17:40	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 17:40	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 17:40	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 15 **Date/Time Sampled: 04/22/2016 09:10** **PSS Sample ID: 16042215-012**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,2-Dichloropropane	ND	ug/L	1.0		1	04/25/16	04/25/16 17:40	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	04/25/16	04/25/16 17:40	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	04/25/16	04/25/16 17:40	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 17:40	1011
Diisopropyl ether	ND	ug/L	10		1	04/25/16	04/25/16 17:40	1011
Ethylbenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 17:40	1011
2-Hexanone	ND	ug/L	10		1	04/25/16	04/25/16 17:40	1011
Isopropylbenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 17:40	1011
Methyl Acetate	ND	ug/L	10		1	04/25/16	04/25/16 17:40	1011
Methylcyclohexane	ND	ug/L	10		1	04/25/16	04/25/16 17:40	1011
Methylene Chloride	ND	ug/L	1.0		1	04/25/16	04/25/16 17:40	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	04/25/16	04/25/16 17:40	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	04/25/16	04/25/16 17:40	1011
Naphthalene	ND	ug/L	1.0		1	04/25/16	04/25/16 17:40	1011
Styrene	ND	ug/L	1.0		1	04/25/16	04/25/16 17:40	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 17:40	1011
Tetrachloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 17:40	1011
Toluene	ND	ug/L	1.0		1	04/25/16	04/25/16 17:40	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 17:40	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 17:40	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 17:40	1011
Trichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 17:40	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 17:40	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	04/25/16	04/25/16 17:40	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 17:40	1011
Vinyl Chloride	ND	ug/L	1.0		1	04/25/16	04/25/16 17:40	1011
m,p-Xylenes	ND	ug/L	2.0		1	04/25/16	04/25/16 17:40	1011
o-Xylene	ND	ug/L	1.0		1	04/25/16	04/25/16 17:40	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: Sys Eff **Date/Time Sampled: 04/22/2016 12:00** **PSS Sample ID: 16042215-013**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

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)	**0.13**	mg/L	0.10		1	04/25/16	04/26/16 22:28	1055

Total Petroleum Hydrocarbons-GRO — Analytical Method: SW-846 8015C — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	04/29/16	05/02/16 11:06	1035

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: Sys Eff **Date/Time Sampled: 04/22/2016 12:00** **PSS Sample ID: 16042215-013**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	10		1	04/25/16	04/25/16 18:22	1011
tert-Amyl alcohol	ND	ug/L	20		1	04/25/16	04/25/16 18:22	1011
tert-Amyl methyl ether	ND	ug/L	10		1	04/25/16	04/25/16 18:22	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	04/25/16	04/25/16 18:22	1011
Benzene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:22	1011
Bromochloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 18:22	1011
Bromodichloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 18:22	1011
Bromoform	ND	ug/L	5.0		1	04/25/16	04/25/16 18:22	1011
Bromomethane	ND	ug/L	1.0		1	04/25/16	04/25/16 18:22	1011
tert-Butyl alcohol	ND	ug/L	20		1	04/25/16	04/25/16 18:22	1011
2-Butanone (MEK)	ND	ug/L	10		1	04/25/16	04/25/16 18:22	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	04/25/16	04/25/16 18:22	1011
Carbon Disulfide	ND	ug/L	10		1	04/25/16	04/25/16 18:22	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	04/25/16	04/25/16 18:22	1011
Chlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:22	1011
Chloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 18:22	1011
Chloroform	ND	ug/L	1.0		1	04/25/16	04/25/16 18:22	1011
Chloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 18:22	1011
Cyclohexane	ND	ug/L	10		1	04/25/16	04/25/16 18:22	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	04/25/16	04/25/16 18:22	1011
Dibromochloromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 18:22	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	04/25/16	04/25/16 18:22	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:22	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:22	1011
Dichlorodifluoromethane	ND	ug/L	1.0		1	04/25/16	04/25/16 18:22	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:22	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 18:22	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 18:22	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:22	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:22	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: Sys Eff **Date/Time Sampled: 04/22/2016 12:00** **PSS Sample ID: 16042215-013**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,2-Dichloropropane	ND	ug/L	1.0		1	04/25/16	04/25/16 18:22	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:22	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:22	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:22	1011
Diisopropyl ether	ND	ug/L	10		1	04/25/16	04/25/16 18:22	1011
Ethylbenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:22	1011
2-Hexanone	ND	ug/L	10		1	04/25/16	04/25/16 18:22	1011
Isopropylbenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:22	1011
Methyl Acetate	ND	ug/L	10		1	04/25/16	04/25/16 18:22	1011
Methylcyclohexane	ND	ug/L	10		1	04/25/16	04/25/16 18:22	1011
Methylene Chloride	ND	ug/L	1.0		1	04/25/16	04/25/16 18:22	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	04/25/16	04/25/16 18:22	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	04/25/16	04/25/16 18:22	1011
Naphthalene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:22	1011
Styrene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:22	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 18:22	1011
Tetrachloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:22	1011
Toluene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:22	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:22	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:22	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 18:22	1011
Trichloroethene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:22	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 18:22	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	04/25/16	04/25/16 18:22	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	04/25/16	04/25/16 18:22	1011
Vinyl Chloride	ND	ug/L	1.0		1	04/25/16	04/25/16 18:22	1011
m,p-Xylenes	ND	ug/L	2.0		1	04/25/16	04/25/16 18:22	1011
o-Xylene	ND	ug/L	1.0		1	04/25/16	04/25/16 18:22	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 41 **Date/Time Sampled: 04/22/2016 10:02** **PSS Sample ID: 16042215-014**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

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)	**3.6**	mg/L	0.10		1	04/25/16	04/26/16 22:53	1055

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CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 41 **Date/Time Sampled: 04/22/2016 10:02** **PSS Sample ID: 16042215-014**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	10		1	04/28/16	04/28/16 13:53	1011
tert-Amyl alcohol	ND	ug/L	20		1	04/28/16	04/28/16 13:53	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	04/28/16	04/28/16 13:53	1011
tert-Amyl methyl ether	ND	ug/L	10		1	04/28/16	04/28/16 13:53	1011
Benzene	ND	ug/L	1.0		1	04/28/16	04/28/16 13:53	1011
Bromochloromethane	ND	ug/L	1.0		1	04/28/16	04/28/16 13:53	1011
Bromodichloromethane	ND	ug/L	1.0		1	04/28/16	04/28/16 13:53	1011
Bromoform	ND	ug/L	5.0		1	04/28/16	04/28/16 13:53	1011
Bromomethane	ND	ug/L	1.0		1	04/28/16	04/28/16 13:53	1011
tert-Butyl alcohol	ND	ug/L	20		1	04/28/16	04/28/16 13:53	1011
2-Butanone (MEK)	ND	ug/L	10		1	04/28/16	04/28/16 13:53	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	04/28/16	04/28/16 13:53	1011
Carbon Disulfide	ND	ug/L	10		1	04/28/16	04/28/16 13:53	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	04/28/16	04/28/16 13:53	1011
Chlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 13:53	1011
Chloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 13:53	1011
Chloroform	ND	ug/L	1.0		1	04/28/16	04/28/16 13:53	1011
Chloromethane	ND	ug/L	1.0		1	04/28/16	04/28/16 13:53	1011
Cyclohexane	ND	ug/L	10		1	04/28/16	04/28/16 13:53	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	04/28/16	04/28/16 13:53	1011
Dibromochloromethane	ND	ug/L	1.0		1	04/28/16	04/28/16 13:53	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	04/28/16	04/28/16 13:53	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 13:53	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 13:53	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 13:53	1011
Dichlorodifluoromethane	ND	ug/L	1.0		1	04/28/16	04/28/16 13:53	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 13:53	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 13:53	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/28/16 13:53	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/28/16 13:53	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 41 **Date/Time Sampled: 04/22/2016 10:02** **PSS Sample ID: 16042215-014**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,2-Dichloropropane	ND	ug/L	1.0		1	04/28/16	04/28/16 13:53	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	04/28/16	04/28/16 13:53	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	04/28/16	04/28/16 13:53	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/28/16 13:53	1011
Diisopropyl ether	ND	ug/L	10		1	04/28/16	04/28/16 13:53	1011
Ethylbenzene	**1.6**	ug/L	1.0		1	04/28/16	04/28/16 13:53	1011
2-Hexanone	ND	ug/L	10		1	04/28/16	04/28/16 13:53	1011
Isopropylbenzene	**1.2**	ug/L	1.0		1	04/28/16	04/28/16 13:53	1011
Methyl Acetate	ND	ug/L	10		1	04/28/16	04/28/16 13:53	1011
Methylcyclohexane	ND	ug/L	10		1	04/28/16	04/28/16 13:53	1011
Methylene Chloride	ND	ug/L	1.0		1	04/28/16	04/28/16 13:53	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	04/28/16	04/28/16 13:53	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	04/28/16	04/28/16 13:53	1011
Naphthalene	**13**	ug/L	1.0		1	04/28/16	04/28/16 13:53	1011
Styrene	ND	ug/L	1.0		1	04/28/16	04/28/16 13:53	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 13:53	1011
Tetrachloroethene	ND	ug/L	1.0		1	04/28/16	04/28/16 13:53	1011
Toluene	ND	ug/L	1.0		1	04/28/16	04/28/16 13:53	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 13:53	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 13:53	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 13:53	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 13:53	1011
Trichloroethene	ND	ug/L	1.0		1	04/28/16	04/28/16 13:53	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	04/28/16	04/28/16 13:53	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 13:53	1011
Vinyl Chloride	ND	ug/L	1.0		1	04/28/16	04/28/16 13:53	1011
m,p-Xylenes	ND	ug/L	2.0		1	04/28/16	04/28/16 13:53	1011
o-Xylene	ND	ug/L	1.0		1	04/28/16	04/28/16 13:53	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 3 **Date/Time Sampled: 04/22/2016 10:12** **PSS Sample ID: 16042215-015**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

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)	**3.8**	mg/L	0.11		1	04/25/16	04/26/16 23:44	1055

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 3 **Date/Time Sampled: 04/22/2016 10:12** **PSS Sample ID: 16042215-015**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	10		1	04/28/16	04/28/16 14:35	1011
tert-Amyl alcohol	ND	ug/L	20		1	04/28/16	04/28/16 14:35	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	04/28/16	04/28/16 14:35	1011
tert-Amyl methyl ether	ND	ug/L	10		1	04/28/16	04/28/16 14:35	1011
Benzene	ND	ug/L	1.0		1	04/28/16	04/28/16 14:35	1011
Bromochloromethane	ND	ug/L	1.0		1	04/28/16	04/28/16 14:35	1011
Bromodichloromethane	ND	ug/L	1.0		1	04/28/16	04/28/16 14:35	1011
Bromoform	ND	ug/L	5.0		1	04/28/16	04/28/16 14:35	1011
Bromomethane	ND	ug/L	1.0		1	04/28/16	04/28/16 14:35	1011
tert-Butyl alcohol	ND	ug/L	20		1	04/28/16	04/28/16 14:35	1011
2-Butanone (MEK)	ND	ug/L	10		1	04/28/16	04/28/16 14:35	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	04/28/16	04/28/16 14:35	1011
Carbon Disulfide	ND	ug/L	10		1	04/28/16	04/28/16 14:35	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	04/28/16	04/28/16 14:35	1011
Chlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 14:35	1011
Chloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 14:35	1011
Chloroform	ND	ug/L	1.0		1	04/28/16	04/28/16 14:35	1011
Chloromethane	ND	ug/L	1.0		1	04/28/16	04/28/16 14:35	1011
Cyclohexane	ND	ug/L	10		1	04/28/16	04/28/16 14:35	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	04/28/16	04/28/16 14:35	1011
Dibromochloromethane	ND	ug/L	1.0		1	04/28/16	04/28/16 14:35	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	04/28/16	04/28/16 14:35	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 14:35	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 14:35	1011
Dichlorodifluoromethane	ND	ug/L	1.0		1	04/28/16	04/28/16 14:35	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 14:35	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 14:35	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 14:35	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/28/16 14:35	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/28/16 14:35	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 3 **Date/Time Sampled: 04/22/2016 10:12** **PSS Sample ID: 16042215-015**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,2-Dichloropropane	ND	ug/L	1.0		1	04/28/16	04/28/16 14:35	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	04/28/16	04/28/16 14:35	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	04/28/16	04/28/16 14:35	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/28/16 14:35	1011
Diisopropyl ether	ND	ug/L	10		1	04/28/16	04/28/16 14:35	1011
Ethylbenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 14:35	1011
2-Hexanone	ND	ug/L	10		1	04/28/16	04/28/16 14:35	1011
Isopropylbenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 14:35	1011
Methyl Acetate	ND	ug/L	10		1	04/28/16	04/28/16 14:35	1011
Methylcyclohexane	ND	ug/L	10		1	04/28/16	04/28/16 14:35	1011
Methylene Chloride	ND	ug/L	1.0		1	04/28/16	04/28/16 14:35	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	04/28/16	04/28/16 14:35	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	04/28/16	04/28/16 14:35	1011
Naphthalene	ND	ug/L	1.0		1	04/28/16	04/28/16 14:35	1011
Styrene	ND	ug/L	1.0		1	04/28/16	04/28/16 14:35	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 14:35	1011
Tetrachloroethene	ND	ug/L	1.0		1	04/28/16	04/28/16 14:35	1011
Toluene	ND	ug/L	1.0		1	04/28/16	04/28/16 14:35	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 14:35	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 14:35	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 14:35	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 14:35	1011
Trichloroethene	ND	ug/L	1.0		1	04/28/16	04/28/16 14:35	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	04/28/16	04/28/16 14:35	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 14:35	1011
Vinyl Chloride	ND	ug/L	1.0		1	04/28/16	04/28/16 14:35	1011
m,p-Xylenes	ND	ug/L	2.0		1	04/28/16	04/28/16 14:35	1011
o-Xylene	ND	ug/L	1.0		1	04/28/16	04/28/16 14:35	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 4 **Date/Time Sampled: 04/22/2016 10:15** **PSS Sample ID: 16042215-016**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

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)	**5.4**	mg/L	0.12		1	04/26/16	04/26/16 18:09	1055

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 4 **Date/Time Sampled: 04/22/2016 10:15** **PSS Sample ID: 16042215-016**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	10		1	04/28/16	04/28/16 15:17	1011
tert-Amyl alcohol	ND	ug/L	20		1	04/28/16	04/28/16 15:17	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	04/28/16	04/28/16 15:17	1011
tert-Amyl methyl ether	ND	ug/L	10		1	04/28/16	04/28/16 15:17	1011
Benzene	ND	ug/L	1.0		1	04/28/16	04/28/16 15:17	1011
Bromochloromethane	ND	ug/L	1.0		1	04/28/16	04/28/16 15:17	1011
Bromodichloromethane	ND	ug/L	1.0		1	04/28/16	04/28/16 15:17	1011
Bromoform	ND	ug/L	5.0		1	04/28/16	04/28/16 15:17	1011
Bromomethane	ND	ug/L	1.0		1	04/28/16	04/28/16 15:17	1011
tert-Butyl alcohol	ND	ug/L	20		1	04/28/16	04/28/16 15:17	1011
2-Butanone (MEK)	ND	ug/L	10		1	04/28/16	04/28/16 15:17	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	04/28/16	04/28/16 15:17	1011
Carbon Disulfide	ND	ug/L	10		1	04/28/16	04/28/16 15:17	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	04/28/16	04/28/16 15:17	1011
Chlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 15:17	1011
Chloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 15:17	1011
Chloroform	ND	ug/L	1.0		1	04/28/16	04/28/16 15:17	1011
Chloromethane	ND	ug/L	1.0		1	04/28/16	04/28/16 15:17	1011
Cyclohexane	ND	ug/L	10		1	04/28/16	04/28/16 15:17	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	04/28/16	04/28/16 15:17	1011
Dibromochloromethane	ND	ug/L	1.0		1	04/28/16	04/28/16 15:17	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	04/28/16	04/28/16 15:17	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 15:17	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 15:17	1011
Dichlorodifluoromethane	ND	ug/L	1.0		1	04/28/16	04/28/16 15:17	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 15:17	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 15:17	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 15:17	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/28/16 15:17	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/28/16 15:17	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 4 **Date/Time Sampled: 04/22/2016 10:15** **PSS Sample ID: 16042215-016**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,2-Dichloropropane	ND	ug/L	1.0		1	04/28/16	04/28/16 15:17	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	04/28/16	04/28/16 15:17	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	04/28/16	04/28/16 15:17	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/28/16 15:17	1011
Diisopropyl ether	ND	ug/L	10		1	04/28/16	04/28/16 15:17	1011
Ethylbenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 15:17	1011
2-Hexanone	ND	ug/L	10		1	04/28/16	04/28/16 15:17	1011
Isopropylbenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 15:17	1011
Methyl Acetate	ND	ug/L	10		1	04/28/16	04/28/16 15:17	1011
Methylcyclohexane	ND	ug/L	10		1	04/28/16	04/28/16 15:17	1011
Methylene Chloride	ND	ug/L	1.0		1	04/28/16	04/28/16 15:17	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	04/28/16	04/28/16 15:17	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	04/28/16	04/28/16 15:17	1011
Naphthalene	ND	ug/L	1.0		1	04/28/16	04/28/16 15:17	1011
Styrene	ND	ug/L	1.0		1	04/28/16	04/28/16 15:17	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 15:17	1011
Tetrachloroethene	ND	ug/L	1.0		1	04/28/16	04/28/16 15:17	1011
Toluene	ND	ug/L	1.0		1	04/28/16	04/28/16 15:17	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 15:17	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 15:17	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 15:17	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 15:17	1011
Trichloroethene	ND	ug/L	1.0		1	04/28/16	04/28/16 15:17	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	04/28/16	04/28/16 15:17	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 15:17	1011
Vinyl Chloride	ND	ug/L	1.0		1	04/28/16	04/28/16 15:17	1011
m,p-Xylenes	ND	ug/L	2.0		1	04/28/16	04/28/16 15:17	1011
o-Xylene	ND	ug/L	1.0		1	04/28/16	04/28/16 15:17	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 2 **Date/Time Sampled: 04/22/2016 10:24** **PSS Sample ID: 16042215-017**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

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)	**3.8**	mg/L	0.12		1	04/26/16	04/26/16 18:56	1055

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 2 **Date/Time Sampled: 04/22/2016 10:24** **PSS Sample ID: 16042215-017**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	10		1	04/28/16	04/28/16 16:00	1011
tert-Amyl alcohol	ND	ug/L	20		1	04/28/16	04/28/16 16:00	1011
tert-Amyl methyl ether	ND	ug/L	10		1	04/28/16	04/28/16 16:00	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	04/28/16	04/28/16 16:00	1011
Benzene	ND	ug/L	1.0		1	04/28/16	04/28/16 16:00	1011
Bromochloromethane	ND	ug/L	1.0		1	04/28/16	04/28/16 16:00	1011
Bromodichloromethane	ND	ug/L	1.0		1	04/28/16	04/28/16 16:00	1011
Bromoform	ND	ug/L	5.0		1	04/28/16	04/28/16 16:00	1011
Bromomethane	ND	ug/L	1.0		1	04/28/16	04/28/16 16:00	1011
tert-Butyl alcohol	ND	ug/L	20		1	04/28/16	04/28/16 16:00	1011
2-Butanone (MEK)	ND	ug/L	10		1	04/28/16	04/28/16 16:00	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	04/28/16	04/28/16 16:00	1011
Carbon Disulfide	ND	ug/L	10		1	04/28/16	04/28/16 16:00	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	04/28/16	04/28/16 16:00	1011
Chlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 16:00	1011
Chloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 16:00	1011
Chloroform	ND	ug/L	1.0		1	04/28/16	04/28/16 16:00	1011
Chloromethane	ND	ug/L	1.0		1	04/28/16	04/28/16 16:00	1011
Cyclohexane	ND	ug/L	10		1	04/28/16	04/28/16 16:00	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	04/28/16	04/28/16 16:00	1011
Dibromochloromethane	ND	ug/L	1.0		1	04/28/16	04/28/16 16:00	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	04/28/16	04/28/16 16:00	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 16:00	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 16:00	1011
Dichlorodifluoromethane	ND	ug/L	1.0		1	04/28/16	04/28/16 16:00	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 16:00	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 16:00	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 16:00	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/28/16 16:00	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/28/16 16:00	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 2 **Date/Time Sampled: 04/22/2016 10:24** **PSS Sample ID: 16042215-017**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,2-Dichloropropane	ND	ug/L	1.0		1	04/28/16	04/28/16 16:00	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	04/28/16	04/28/16 16:00	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	04/28/16	04/28/16 16:00	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/28/16 16:00	1011
Diisopropyl ether	ND	ug/L	10		1	04/28/16	04/28/16 16:00	1011
Ethylbenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 16:00	1011
2-Hexanone	ND	ug/L	10		1	04/28/16	04/28/16 16:00	1011
Isopropylbenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 16:00	1011
Methyl Acetate	ND	ug/L	10		1	04/28/16	04/28/16 16:00	1011
Methylcyclohexane	ND	ug/L	10		1	04/28/16	04/28/16 16:00	1011
Methylene Chloride	ND	ug/L	1.0		1	04/28/16	04/28/16 16:00	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	04/28/16	04/28/16 16:00	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	04/28/16	04/28/16 16:00	1011
Naphthalene	ND	ug/L	1.0		1	04/28/16	04/28/16 16:00	1011
Styrene	ND	ug/L	1.0		1	04/28/16	04/28/16 16:00	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 16:00	1011
Tetrachloroethene	ND	ug/L	1.0		1	04/28/16	04/28/16 16:00	1011
Toluene	ND	ug/L	1.0		1	04/28/16	04/28/16 16:00	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 16:00	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 16:00	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 16:00	1011
Trichloroethene	ND	ug/L	1.0		1	04/28/16	04/28/16 16:00	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 16:00	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	04/28/16	04/28/16 16:00	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 16:00	1011
Vinyl Chloride	ND	ug/L	1.0		1	04/28/16	04/28/16 16:00	1011
m,p-Xylenes	ND	ug/L	2.0		1	04/28/16	04/28/16 16:00	1011
o-Xylene	ND	ug/L	1.0		1	04/28/16	04/28/16 16:00	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 1 **Date/Time Sampled: 04/22/2016 10:26** **PSS Sample ID: 16042215-018**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

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)	**3.6**	mg/L	0.11		1	04/26/16	04/26/16 19:44	1055

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CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 1 **Date/Time Sampled: 04/22/2016 10:26** **PSS Sample ID: 16042215-018**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	10		1	04/28/16	04/28/16 16:42	1011
tert-Amyl alcohol	ND	ug/L	20		1	04/28/16	04/28/16 16:42	1011
tert-Amyl methyl ether	ND	ug/L	10		1	04/28/16	04/28/16 16:42	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	04/28/16	04/28/16 16:42	1011
Benzene	ND	ug/L	1.0		1	04/28/16	04/28/16 16:42	1011
Bromochloromethane	ND	ug/L	1.0		1	04/28/16	04/28/16 16:42	1011
Bromodichloromethane	ND	ug/L	1.0		1	04/28/16	04/28/16 16:42	1011
Bromoform	ND	ug/L	5.0		1	04/28/16	04/28/16 16:42	1011
Bromomethane	ND	ug/L	1.0		1	04/28/16	04/28/16 16:42	1011
tert-Butyl alcohol	ND	ug/L	20		1	04/28/16	04/28/16 16:42	1011
2-Butanone (MEK)	ND	ug/L	10		1	04/28/16	04/28/16 16:42	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	04/28/16	04/28/16 16:42	1011
Carbon Disulfide	ND	ug/L	10		1	04/28/16	04/28/16 16:42	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	04/28/16	04/28/16 16:42	1011
Chlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 16:42	1011
Chloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 16:42	1011
Chloroform	ND	ug/L	1.0		1	04/28/16	04/28/16 16:42	1011
Chloromethane	ND	ug/L	1.0		1	04/28/16	04/28/16 16:42	1011
Cyclohexane	ND	ug/L	10		1	04/28/16	04/28/16 16:42	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	04/28/16	04/28/16 16:42	1011
Dibromochloromethane	ND	ug/L	1.0		1	04/28/16	04/28/16 16:42	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	04/28/16	04/28/16 16:42	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 16:42	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 16:42	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 16:42	1011
Dichlorodifluoromethane	ND	ug/L	1.0		1	04/28/16	04/28/16 16:42	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 16:42	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 16:42	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/28/16 16:42	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/28/16 16:42	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 1 **Date/Time Sampled: 04/22/2016 10:26** **PSS Sample ID: 16042215-018**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,2-Dichloropropane	ND	ug/L	1.0		1	04/28/16	04/28/16 16:42	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	04/28/16	04/28/16 16:42	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	04/28/16	04/28/16 16:42	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/28/16 16:42	1011
Diisopropyl ether	ND	ug/L	10		1	04/28/16	04/28/16 16:42	1011
Ethylbenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 16:42	1011
2-Hexanone	ND	ug/L	10		1	04/28/16	04/28/16 16:42	1011
Isopropylbenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 16:42	1011
Methyl Acetate	ND	ug/L	10		1	04/28/16	04/28/16 16:42	1011
Methylcyclohexane	ND	ug/L	10		1	04/28/16	04/28/16 16:42	1011
Methylene Chloride	ND	ug/L	1.0		1	04/28/16	04/28/16 16:42	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	04/28/16	04/28/16 16:42	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	04/28/16	04/28/16 16:42	1011
Naphthalene	ND	ug/L	1.0		1	04/28/16	04/28/16 16:42	1011
Styrene	ND	ug/L	1.0		1	04/28/16	04/28/16 16:42	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 16:42	1011
Tetrachloroethene	ND	ug/L	1.0		1	04/28/16	04/28/16 16:42	1011
Toluene	ND	ug/L	1.0		1	04/28/16	04/28/16 16:42	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 16:42	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 16:42	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 16:42	1011
Trichloroethene	ND	ug/L	1.0		1	04/28/16	04/28/16 16:42	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 16:42	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	04/28/16	04/28/16 16:42	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 16:42	1011
Vinyl Chloride	ND	ug/L	1.0		1	04/28/16	04/28/16 16:42	1011
m,p-Xylenes	ND	ug/L	2.0		1	04/28/16	04/28/16 16:42	1011
o-Xylene	ND	ug/L	1.0		1	04/28/16	04/28/16 16:42	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 31R **Date/Time Sampled: 04/22/2016 11:50** **PSS Sample ID: 16042215-019**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

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	04/26/16	04/26/16 20:31	1055

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CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 31R **Date/Time Sampled: 04/22/2016 11:50** **PSS Sample ID: 16042215-019**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	10		1	04/28/16	04/28/16 17:25	1011
tert-Amyl alcohol	ND	ug/L	20		1	04/28/16	04/28/16 17:25	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	04/28/16	04/28/16 17:25	1011
tert-Amyl methyl ether	ND	ug/L	10		1	04/28/16	04/28/16 17:25	1011
Benzene	ND	ug/L	1.0		1	04/28/16	04/28/16 17:25	1011
Bromochloromethane	ND	ug/L	1.0		1	04/28/16	04/28/16 17:25	1011
Bromodichloromethane	ND	ug/L	1.0		1	04/28/16	04/28/16 17:25	1011
Bromoform	ND	ug/L	5.0		1	04/28/16	04/28/16 17:25	1011
Bromomethane	ND	ug/L	1.0		1	04/28/16	04/28/16 17:25	1011
tert-Butyl alcohol	ND	ug/L	20		1	04/28/16	04/28/16 17:25	1011
2-Butanone (MEK)	ND	ug/L	10		1	04/28/16	04/28/16 17:25	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	04/28/16	04/28/16 17:25	1011
Carbon Disulfide	ND	ug/L	10		1	04/28/16	04/28/16 17:25	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	04/28/16	04/28/16 17:25	1011
Chlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 17:25	1011
Chloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 17:25	1011
Chloroform	ND	ug/L	1.0		1	04/28/16	04/28/16 17:25	1011
Chloromethane	ND	ug/L	1.0		1	04/28/16	04/28/16 17:25	1011
Cyclohexane	ND	ug/L	10		1	04/28/16	04/28/16 17:25	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	04/28/16	04/28/16 17:25	1011
Dibromochloromethane	ND	ug/L	1.0		1	04/28/16	04/28/16 17:25	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	04/28/16	04/28/16 17:25	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 17:25	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 17:25	1011
Dichlorodifluoromethane	ND	ug/L	1.0		1	04/28/16	04/28/16 17:25	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 17:25	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 17:25	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 17:25	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/28/16 17:25	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/28/16 17:25	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 31R **Date/Time Sampled: 04/22/2016 11:50** **PSS Sample ID: 16042215-019**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,2-Dichloropropane	ND	ug/L	1.0		1	04/28/16	04/28/16 17:25	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	04/28/16	04/28/16 17:25	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	04/28/16	04/28/16 17:25	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/28/16 17:25	1011
Diisopropyl ether	ND	ug/L	10		1	04/28/16	04/28/16 17:25	1011
Ethylbenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 17:25	1011
2-Hexanone	ND	ug/L	10		1	04/28/16	04/28/16 17:25	1011
Isopropylbenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 17:25	1011
Methyl Acetate	ND	ug/L	10		1	04/28/16	04/28/16 17:25	1011
Methylcyclohexane	ND	ug/L	10		1	04/28/16	04/28/16 17:25	1011
Methylene Chloride	ND	ug/L	1.0		1	04/28/16	04/28/16 17:25	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	04/28/16	04/28/16 17:25	1011
Methyl-t-butyl ether	**1.5**	ug/L	1.0		1	04/28/16	04/28/16 17:25	1011
Naphthalene	ND	ug/L	1.0		1	04/28/16	04/28/16 17:25	1011
Styrene	ND	ug/L	1.0		1	04/28/16	04/28/16 17:25	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 17:25	1011
Tetrachloroethene	ND	ug/L	1.0		1	04/28/16	04/28/16 17:25	1011
Toluene	ND	ug/L	1.0		1	04/28/16	04/28/16 17:25	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 17:25	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 17:25	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 17:25	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 17:25	1011
Trichloroethene	ND	ug/L	1.0		1	04/28/16	04/28/16 17:25	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	04/28/16	04/28/16 17:25	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 17:25	1011
Vinyl Chloride	ND	ug/L	1.0		1	04/28/16	04/28/16 17:25	1011
m,p-Xylenes	ND	ug/L	2.0		1	04/28/16	04/28/16 17:25	1011
o-Xylene	ND	ug/L	1.0		1	04/28/16	04/28/16 17:25	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 17 **Date/Time Sampled: 04/22/2016 09:02** **PSS Sample ID: 16042215-020**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

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)	**0.14**	mg/L	0.11		1	04/26/16	04/26/16 20:31	1055

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 17 **Date/Time Sampled: 04/22/2016 09:02** **PSS Sample ID: 16042215-020**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	10		1	04/28/16	04/28/16 18:08	1011
tert-Amyl alcohol	ND	ug/L	20		1	04/28/16	04/28/16 18:08	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	04/28/16	04/28/16 18:08	1011
tert-Amyl methyl ether	ND	ug/L	10		1	04/28/16	04/28/16 18:08	1011
Benzene	ND	ug/L	1.0		1	04/28/16	04/28/16 18:08	1011
Bromochloromethane	ND	ug/L	1.0		1	04/28/16	04/28/16 18:08	1011
Bromodichloromethane	ND	ug/L	1.0		1	04/28/16	04/28/16 18:08	1011
Bromoform	ND	ug/L	5.0		1	04/28/16	04/28/16 18:08	1011
Bromomethane	ND	ug/L	1.0		1	04/28/16	04/28/16 18:08	1011
tert-Butyl alcohol	ND	ug/L	20		1	04/28/16	04/28/16 18:08	1011
2-Butanone (MEK)	ND	ug/L	10		1	04/28/16	04/28/16 18:08	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	04/28/16	04/28/16 18:08	1011
Carbon Disulfide	ND	ug/L	10		1	04/28/16	04/28/16 18:08	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	04/28/16	04/28/16 18:08	1011
Chlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 18:08	1011
Chloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 18:08	1011
Chloroform	ND	ug/L	1.0		1	04/28/16	04/28/16 18:08	1011
Chloromethane	ND	ug/L	1.0		1	04/28/16	04/28/16 18:08	1011
Cyclohexane	ND	ug/L	10		1	04/28/16	04/28/16 18:08	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	04/28/16	04/28/16 18:08	1011
Dibromochloromethane	ND	ug/L	1.0		1	04/28/16	04/28/16 18:08	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	04/28/16	04/28/16 18:08	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 18:08	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 18:08	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 18:08	1011
Dichlorodifluoromethane	ND	ug/L	1.0		1	04/28/16	04/28/16 18:08	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 18:08	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 18:08	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/28/16 18:08	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/28/16 18:08	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 17 **Date/Time Sampled: 04/22/2016 09:02** **PSS Sample ID: 16042215-020**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,2-Dichloropropane	ND	ug/L	1.0		1	04/28/16	04/28/16 18:08	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	04/28/16	04/28/16 18:08	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	04/28/16	04/28/16 18:08	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/28/16 18:08	1011
Diisopropyl ether	ND	ug/L	10		1	04/28/16	04/28/16 18:08	1011
Ethylbenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 18:08	1011
2-Hexanone	ND	ug/L	10		1	04/28/16	04/28/16 18:08	1011
Isopropylbenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 18:08	1011
Methyl Acetate	ND	ug/L	10		1	04/28/16	04/28/16 18:08	1011
Methylcyclohexane	ND	ug/L	10		1	04/28/16	04/28/16 18:08	1011
Methylene Chloride	ND	ug/L	1.0		1	04/28/16	04/28/16 18:08	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	04/28/16	04/28/16 18:08	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	04/28/16	04/28/16 18:08	1011
Naphthalene	ND	ug/L	1.0		1	04/28/16	04/28/16 18:08	1011
Styrene	ND	ug/L	1.0		1	04/28/16	04/28/16 18:08	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 18:08	1011
Tetrachloroethene	ND	ug/L	1.0		1	04/28/16	04/28/16 18:08	1011
Toluene	ND	ug/L	1.0		1	04/28/16	04/28/16 18:08	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 18:08	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/28/16 18:08	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 18:08	1011
Trichloroethene	ND	ug/L	1.0		1	04/28/16	04/28/16 18:08	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 18:08	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	04/28/16	04/28/16 18:08	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	04/28/16	04/28/16 18:08	1011
Vinyl Chloride	ND	ug/L	1.0		1	04/28/16	04/28/16 18:08	1011
m,p-Xylenes	ND	ug/L	2.0		1	04/28/16	04/28/16 18:08	1011
o-Xylene	ND	ug/L	1.0		1	04/28/16	04/28/16 18:08	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 47 **Date/Time Sampled: 04/22/2016 11:35** **PSS Sample ID: 16042215-021**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

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)	**7.2**	mg/L	0.10		1	04/26/16	04/26/16 21:19	1055

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 47 **Date/Time Sampled: 04/22/2016 11:35** **PSS Sample ID: 16042215-021**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	10		1	04/28/16	04/29/16 01:10	1011
tert-Amyl alcohol	ND	ug/L	20		1	04/28/16	04/29/16 01:10	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	04/28/16	04/29/16 01:10	1011
tert-Amyl methyl ether	ND	ug/L	10		1	04/28/16	04/29/16 01:10	1011
Benzene	**3.5**	ug/L	1.0		1	04/28/16	04/29/16 01:10	1011
Bromochloromethane	ND	ug/L	1.0		1	04/28/16	04/29/16 01:10	1011
Bromodichloromethane	ND	ug/L	1.0		1	04/28/16	04/29/16 01:10	1011
Bromoform	ND	ug/L	5.0		1	04/28/16	04/29/16 01:10	1011
Bromomethane	ND	ug/L	1.0		1	04/28/16	04/29/16 01:10	1011
tert-Butyl alcohol	ND	ug/L	20		1	04/28/16	04/29/16 01:10	1011
2-Butanone (MEK)	ND	ug/L	10		1	04/28/16	04/29/16 01:10	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	04/28/16	04/29/16 01:10	1011
Carbon Disulfide	ND	ug/L	10		1	04/28/16	04/29/16 01:10	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	04/28/16	04/29/16 01:10	1011
Chlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 01:10	1011
Chloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 01:10	1011
Chloroform	ND	ug/L	1.0		1	04/28/16	04/29/16 01:10	1011
Chloromethane	ND	ug/L	1.0		1	04/28/16	04/29/16 01:10	1011
Cyclohexane	ND	ug/L	10		1	04/28/16	04/29/16 01:10	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	04/28/16	04/29/16 01:10	1011
Dibromochloromethane	ND	ug/L	1.0		1	04/28/16	04/29/16 01:10	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	04/28/16	04/29/16 01:10	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 01:10	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 01:10	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 01:10	1011
Dichlorodifluoromethane	ND	ug/L	1.0		1	04/28/16	04/29/16 01:10	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 01:10	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 01:10	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/29/16 01:10	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/29/16 01:10	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 47 **Date/Time Sampled: 04/22/2016 11:35** **PSS Sample ID: 16042215-021**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,2-Dichloropropane	ND	ug/L	1.0		1	04/28/16	04/29/16 01:10	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	04/28/16	04/29/16 01:10	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	04/28/16	04/29/16 01:10	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/29/16 01:10	1011
Diisopropyl ether	ND	ug/L	10		1	04/28/16	04/29/16 01:10	1011
Ethylbenzene	**2.4**	ug/L	1.0		1	04/28/16	04/29/16 01:10	1011
2-Hexanone	ND	ug/L	10		1	04/28/16	04/29/16 01:10	1011
Isopropylbenzene	**3.4**	ug/L	1.0		1	04/28/16	04/29/16 01:10	1011
Methyl Acetate	ND	ug/L	10		1	04/28/16	04/29/16 01:10	1011
Methylcyclohexane	ND	ug/L	10		1	04/28/16	04/29/16 01:10	1011
Methylene Chloride	ND	ug/L	1.0		1	04/28/16	04/29/16 01:10	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	04/28/16	04/29/16 01:10	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	04/28/16	04/29/16 01:10	1011
Naphthalene	**6.9**	ug/L	1.0		1	04/28/16	04/29/16 01:10	1011
Styrene	ND	ug/L	1.0		1	04/28/16	04/29/16 01:10	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 01:10	1011
Tetrachloroethene	ND	ug/L	1.0		1	04/28/16	04/29/16 01:10	1011
Toluene	ND	ug/L	1.0		1	04/28/16	04/29/16 01:10	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 01:10	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 01:10	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 01:10	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 01:10	1011
Trichloroethene	ND	ug/L	1.0		1	04/28/16	04/29/16 01:10	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	04/28/16	04/29/16 01:10	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 01:10	1011
Vinyl Chloride	ND	ug/L	1.0		1	04/28/16	04/29/16 01:10	1011
m,p-Xylenes	ND	ug/L	2.0		1	04/28/16	04/29/16 01:10	1011
o-Xylene	**2.4**	ug/L	1.0		1	04/28/16	04/29/16 01:10	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 49 **Date/Time Sampled: 04/22/2016 09:32** **PSS Sample ID: 16042215-022**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

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	04/26/16	04/26/16 21:19	1055

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CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 49 **Date/Time Sampled: 04/22/2016 09:32** **PSS Sample ID: 16042215-022**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	10		1	04/28/16	04/29/16 01:53	1011
tert-Amyl alcohol	ND	ug/L	20		1	04/28/16	04/29/16 01:53	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	04/28/16	04/29/16 01:53	1011
tert-Amyl methyl ether	ND	ug/L	10		1	04/28/16	04/29/16 01:53	1011
Benzene	ND	ug/L	1.0		1	04/28/16	04/29/16 01:53	1011
Bromochloromethane	ND	ug/L	1.0		1	04/28/16	04/29/16 01:53	1011
Bromodichloromethane	ND	ug/L	1.0		1	04/28/16	04/29/16 01:53	1011
Bromoform	ND	ug/L	5.0		1	04/28/16	04/29/16 01:53	1011
Bromomethane	ND	ug/L	1.0		1	04/28/16	04/29/16 01:53	1011
tert-Butyl alcohol	ND	ug/L	20		1	04/28/16	04/29/16 01:53	1011
2-Butanone (MEK)	ND	ug/L	10		1	04/28/16	04/29/16 01:53	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	04/28/16	04/29/16 01:53	1011
Carbon Disulfide	ND	ug/L	10		1	04/28/16	04/29/16 01:53	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	04/28/16	04/29/16 01:53	1011
Chlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 01:53	1011
Chloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 01:53	1011
Chloroform	ND	ug/L	1.0		1	04/28/16	04/29/16 01:53	1011
Chloromethane	ND	ug/L	1.0		1	04/28/16	04/29/16 01:53	1011
Cyclohexane	ND	ug/L	10		1	04/28/16	04/29/16 01:53	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	04/28/16	04/29/16 01:53	1011
Dibromochloromethane	ND	ug/L	1.0		1	04/28/16	04/29/16 01:53	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	04/28/16	04/29/16 01:53	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 01:53	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 01:53	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 01:53	1011
Dichlorodifluoromethane	ND	ug/L	1.0		1	04/28/16	04/29/16 01:53	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 01:53	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 01:53	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/29/16 01:53	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/29/16 01:53	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 49 **Date/Time Sampled: 04/22/2016 09:32** **PSS Sample ID: 16042215-022**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,2-Dichloropropane	ND	ug/L	1.0		1	04/28/16	04/29/16 01:53	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	04/28/16	04/29/16 01:53	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	04/28/16	04/29/16 01:53	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/29/16 01:53	1011
Diisopropyl ether	ND	ug/L	10		1	04/28/16	04/29/16 01:53	1011
Ethylbenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 01:53	1011
2-Hexanone	ND	ug/L	10		1	04/28/16	04/29/16 01:53	1011
Isopropylbenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 01:53	1011
Methyl Acetate	ND	ug/L	10		1	04/28/16	04/29/16 01:53	1011
Methylcyclohexane	ND	ug/L	10		1	04/28/16	04/29/16 01:53	1011
Methylene Chloride	ND	ug/L	1.0		1	04/28/16	04/29/16 01:53	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	04/28/16	04/29/16 01:53	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	04/28/16	04/29/16 01:53	1011
Naphthalene	ND	ug/L	1.0		1	04/28/16	04/29/16 01:53	1011
Styrene	ND	ug/L	1.0		1	04/28/16	04/29/16 01:53	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 01:53	1011
Tetrachloroethene	ND	ug/L	1.0		1	04/28/16	04/29/16 01:53	1011
Toluene	ND	ug/L	1.0		1	04/28/16	04/29/16 01:53	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 01:53	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 01:53	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 01:53	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 01:53	1011
Trichloroethene	ND	ug/L	1.0		1	04/28/16	04/29/16 01:53	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	04/28/16	04/29/16 01:53	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 01:53	1011
Vinyl Chloride	ND	ug/L	1.0		1	04/28/16	04/29/16 01:53	1011
m,p-Xylenes	ND	ug/L	2.0		1	04/28/16	04/29/16 01:53	1011
o-Xylene	ND	ug/L	1.0		1	04/28/16	04/29/16 01:53	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 48 **Date/Time Sampled: 04/22/2016 09:29** **PSS Sample ID: 16042215-023**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

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	04/26/16	04/26/16 22:07	1055

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 48 **Date/Time Sampled: 04/22/2016 09:29** **PSS Sample ID: 16042215-023**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	10		1	04/28/16	04/29/16 02:36	1011
tert-Amyl alcohol	ND	ug/L	20		1	04/28/16	04/29/16 02:36	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	04/28/16	04/29/16 02:36	1011
tert-Amyl methyl ether	ND	ug/L	10		1	04/28/16	04/29/16 02:36	1011
Benzene	ND	ug/L	1.0		1	04/28/16	04/29/16 02:36	1011
Bromochloromethane	ND	ug/L	1.0		1	04/28/16	04/29/16 02:36	1011
Bromodichloromethane	ND	ug/L	1.0		1	04/28/16	04/29/16 02:36	1011
Bromoform	ND	ug/L	5.0		1	04/28/16	04/29/16 02:36	1011
Bromomethane	ND	ug/L	1.0		1	04/28/16	04/29/16 02:36	1011
tert-Butyl alcohol	ND	ug/L	20		1	04/28/16	04/29/16 02:36	1011
2-Butanone (MEK)	ND	ug/L	10		1	04/28/16	04/29/16 02:36	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	04/28/16	04/29/16 02:36	1011
Carbon Disulfide	ND	ug/L	10		1	04/28/16	04/29/16 02:36	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	04/28/16	04/29/16 02:36	1011
Chlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 02:36	1011
Chloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 02:36	1011
Chloroform	ND	ug/L	1.0		1	04/28/16	04/29/16 02:36	1011
Chloromethane	ND	ug/L	1.0		1	04/28/16	04/29/16 02:36	1011
Cyclohexane	ND	ug/L	10		1	04/28/16	04/29/16 02:36	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	04/28/16	04/29/16 02:36	1011
Dibromochloromethane	ND	ug/L	1.0		1	04/28/16	04/29/16 02:36	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	04/28/16	04/29/16 02:36	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 02:36	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 02:36	1011
Dichlorodifluoromethane	ND	ug/L	1.0		1	04/28/16	04/29/16 02:36	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 02:36	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 02:36	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 02:36	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/29/16 02:36	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/29/16 02:36	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 48 **Date/Time Sampled: 04/22/2016 09:29** **PSS Sample ID: 16042215-023**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,2-Dichloropropane	ND	ug/L	1.0		1	04/28/16	04/29/16 02:36	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	04/28/16	04/29/16 02:36	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	04/28/16	04/29/16 02:36	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/29/16 02:36	1011
Diisopropyl ether	ND	ug/L	10		1	04/28/16	04/29/16 02:36	1011
Ethylbenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 02:36	1011
2-Hexanone	ND	ug/L	10		1	04/28/16	04/29/16 02:36	1011
Isopropylbenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 02:36	1011
Methyl Acetate	ND	ug/L	10		1	04/28/16	04/29/16 02:36	1011
Methylcyclohexane	ND	ug/L	10		1	04/28/16	04/29/16 02:36	1011
Methylene Chloride	ND	ug/L	1.0		1	04/28/16	04/29/16 02:36	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	04/28/16	04/29/16 02:36	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	04/28/16	04/29/16 02:36	1011
Naphthalene	ND	ug/L	1.0		1	04/28/16	04/29/16 02:36	1011
Styrene	ND	ug/L	1.0		1	04/28/16	04/29/16 02:36	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 02:36	1011
Tetrachloroethene	ND	ug/L	1.0		1	04/28/16	04/29/16 02:36	1011
Toluene	ND	ug/L	1.0		1	04/28/16	04/29/16 02:36	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 02:36	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 02:36	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 02:36	1011
Trichloroethene	ND	ug/L	1.0		1	04/28/16	04/29/16 02:36	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 02:36	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	04/28/16	04/29/16 02:36	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 02:36	1011
Vinyl Chloride	ND	ug/L	1.0		1	04/28/16	04/29/16 02:36	1011
m,p-Xylenes	ND	ug/L	2.0		1	04/28/16	04/29/16 02:36	1011
o-Xylene	ND	ug/L	1.0		1	04/28/16	04/29/16 02:36	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 50 **Date/Time Sampled: 04/22/2016 09:20** **PSS Sample ID: 16042215-024**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

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	04/26/16	04/26/16 22:07	1055

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 50 **Date/Time Sampled: 04/22/2016 09:20** **PSS Sample ID: 16042215-024**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	10		1	04/28/16	04/29/16 03:20	1011
tert-Amyl alcohol	ND	ug/L	20		1	04/28/16	04/29/16 03:20	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	04/28/16	04/29/16 03:20	1011
tert-Amyl methyl ether	ND	ug/L	10		1	04/28/16	04/29/16 03:20	1011
Benzene	ND	ug/L	1.0		1	04/28/16	04/29/16 03:20	1011
Bromochloromethane	ND	ug/L	1.0		1	04/28/16	04/29/16 03:20	1011
Bromodichloromethane	ND	ug/L	1.0		1	04/28/16	04/29/16 03:20	1011
Bromoform	ND	ug/L	5.0		1	04/28/16	04/29/16 03:20	1011
Bromomethane	ND	ug/L	1.0		1	04/28/16	04/29/16 03:20	1011
tert-Butyl alcohol	ND	ug/L	20		1	04/28/16	04/29/16 03:20	1011
2-Butanone (MEK)	ND	ug/L	10		1	04/28/16	04/29/16 03:20	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	04/28/16	04/29/16 03:20	1011
Carbon Disulfide	ND	ug/L	10		1	04/28/16	04/29/16 03:20	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	04/28/16	04/29/16 03:20	1011
Chlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 03:20	1011
Chloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 03:20	1011
Chloroform	ND	ug/L	1.0		1	04/28/16	04/29/16 03:20	1011
Chloromethane	ND	ug/L	1.0		1	04/28/16	04/29/16 03:20	1011
Cyclohexane	ND	ug/L	10		1	04/28/16	04/29/16 03:20	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	04/28/16	04/29/16 03:20	1011
Dibromochloromethane	ND	ug/L	1.0		1	04/28/16	04/29/16 03:20	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	04/28/16	04/29/16 03:20	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 03:20	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 03:20	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 03:20	1011
Dichlorodifluoromethane	ND	ug/L	1.0		1	04/28/16	04/29/16 03:20	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 03:20	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 03:20	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/29/16 03:20	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/29/16 03:20	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 50 **Date/Time Sampled: 04/22/2016 09:20** **PSS Sample ID: 16042215-024**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,2-Dichloropropane	ND	ug/L	1.0		1	04/28/16	04/29/16 03:20	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	04/28/16	04/29/16 03:20	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	04/28/16	04/29/16 03:20	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/29/16 03:20	1011
Diisopropyl ether	ND	ug/L	10		1	04/28/16	04/29/16 03:20	1011
Ethylbenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 03:20	1011
2-Hexanone	ND	ug/L	10		1	04/28/16	04/29/16 03:20	1011
Isopropylbenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 03:20	1011
Methyl Acetate	ND	ug/L	10		1	04/28/16	04/29/16 03:20	1011
Methylcyclohexane	ND	ug/L	10		1	04/28/16	04/29/16 03:20	1011
Methylene Chloride	ND	ug/L	1.0		1	04/28/16	04/29/16 03:20	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	04/28/16	04/29/16 03:20	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	04/28/16	04/29/16 03:20	1011
Naphthalene	ND	ug/L	1.0		1	04/28/16	04/29/16 03:20	1011
Styrene	ND	ug/L	1.0		1	04/28/16	04/29/16 03:20	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 03:20	1011
Tetrachloroethene	ND	ug/L	1.0		1	04/28/16	04/29/16 03:20	1011
Toluene	ND	ug/L	1.0		1	04/28/16	04/29/16 03:20	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 03:20	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 03:20	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 03:20	1011
Trichloroethene	ND	ug/L	1.0		1	04/28/16	04/29/16 03:20	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 03:20	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	04/28/16	04/29/16 03:20	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 03:20	1011
Vinyl Chloride	ND	ug/L	1.0		1	04/28/16	04/29/16 03:20	1011
m,p-Xylenes	ND	ug/L	2.0		1	04/28/16	04/29/16 03:20	1011
o-Xylene	ND	ug/L	1.0		1	04/28/16	04/29/16 03:20	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 10R **Date/Time Sampled: 04/22/2016 11:30** **PSS Sample ID: 16042215-025**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

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)	**5.1**	mg/L	0.11		1	04/26/16	04/26/16 22:54	1055

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 10R **Date/Time Sampled: 04/22/2016 11:30** **PSS Sample ID: 16042215-025**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	10		1	04/28/16	04/29/16 04:03	1011
tert-Amyl alcohol	ND	ug/L	20		1	04/28/16	04/29/16 04:03	1011
tert-Amyl methyl ether	ND	ug/L	10		1	04/28/16	04/29/16 04:03	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	04/28/16	04/29/16 04:03	1011
Benzene	ND	ug/L	1.0		1	04/28/16	04/29/16 04:03	1011
Bromochloromethane	ND	ug/L	1.0		1	04/28/16	04/29/16 04:03	1011
Bromodichloromethane	ND	ug/L	1.0		1	04/28/16	04/29/16 04:03	1011
Bromoform	ND	ug/L	5.0		1	04/28/16	04/29/16 04:03	1011
Bromomethane	ND	ug/L	1.0		1	04/28/16	04/29/16 04:03	1011
tert-Butyl alcohol	ND	ug/L	20		1	04/28/16	04/29/16 04:03	1011
2-Butanone (MEK)	ND	ug/L	10		1	04/28/16	04/29/16 04:03	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	04/28/16	04/29/16 04:03	1011
Carbon Disulfide	ND	ug/L	10		1	04/28/16	04/29/16 04:03	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	04/28/16	04/29/16 04:03	1011
Chlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 04:03	1011
Chloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 04:03	1011
Chloroform	ND	ug/L	1.0		1	04/28/16	04/29/16 04:03	1011
Chloromethane	ND	ug/L	1.0		1	04/28/16	04/29/16 04:03	1011
Cyclohexane	ND	ug/L	10		1	04/28/16	04/29/16 04:03	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	04/28/16	04/29/16 04:03	1011
Dibromochloromethane	ND	ug/L	1.0		1	04/28/16	04/29/16 04:03	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	04/28/16	04/29/16 04:03	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 04:03	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 04:03	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 04:03	1011
Dichlorodifluoromethane	ND	ug/L	1.0		1	04/28/16	04/29/16 04:03	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 04:03	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 04:03	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/29/16 04:03	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/29/16 04:03	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 10R **Date/Time Sampled: 04/22/2016 11:30** **PSS Sample ID: 16042215-025**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,2-Dichloropropane	ND	ug/L	1.0		1	04/28/16	04/29/16 04:03	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	04/28/16	04/29/16 04:03	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	04/28/16	04/29/16 04:03	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/29/16 04:03	1011
Diisopropyl ether	ND	ug/L	10		1	04/28/16	04/29/16 04:03	1011
Ethylbenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 04:03	1011
2-Hexanone	ND	ug/L	10		1	04/28/16	04/29/16 04:03	1011
Isopropylbenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 04:03	1011
Methyl Acetate	ND	ug/L	10		1	04/28/16	04/29/16 04:03	1011
Methylcyclohexane	ND	ug/L	10		1	04/28/16	04/29/16 04:03	1011
Methylene Chloride	ND	ug/L	1.0		1	04/28/16	04/29/16 04:03	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	04/28/16	04/29/16 04:03	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	04/28/16	04/29/16 04:03	1011
Naphthalene	ND	ug/L	1.0		1	04/28/16	04/29/16 04:03	1011
Styrene	ND	ug/L	1.0		1	04/28/16	04/29/16 04:03	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 04:03	1011
Tetrachloroethene	ND	ug/L	1.0		1	04/28/16	04/29/16 04:03	1011
Toluene	ND	ug/L	1.0		1	04/28/16	04/29/16 04:03	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 04:03	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 04:03	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 04:03	1011
Trichloroethene	ND	ug/L	1.0		1	04/28/16	04/29/16 04:03	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 04:03	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	04/28/16	04/29/16 04:03	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 04:03	1011
Vinyl Chloride	ND	ug/L	1.0		1	04/28/16	04/29/16 04:03	1011
m,p-Xylenes	ND	ug/L	2.0		1	04/28/16	04/29/16 04:03	1011
o-Xylene	ND	ug/L	1.0		1	04/28/16	04/29/16 04:03	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 43 **Date/Time Sampled: 04/22/2016 10:37** **PSS Sample ID: 16042215-026**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

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)	**8.2**	mg/L	0.11		1	04/26/16	04/26/16 22:54	1055

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 43 **Date/Time Sampled: 04/22/2016 10:37** **PSS Sample ID: 16042215-026**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	10		1	04/28/16	04/29/16 04:46	1011
tert-Amyl alcohol	ND	ug/L	20		1	04/28/16	04/29/16 04:46	1011
tert-Amyl methyl ether	ND	ug/L	10		1	04/28/16	04/29/16 04:46	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	04/28/16	04/29/16 04:46	1011
Benzene	ND	ug/L	1.0		1	04/28/16	04/29/16 04:46	1011
Bromochloromethane	ND	ug/L	1.0		1	04/28/16	04/29/16 04:46	1011
Bromodichloromethane	ND	ug/L	1.0		1	04/28/16	04/29/16 04:46	1011
Bromoform	ND	ug/L	5.0		1	04/28/16	04/29/16 04:46	1011
Bromomethane	ND	ug/L	1.0		1	04/28/16	04/29/16 04:46	1011
tert-Butyl alcohol	ND	ug/L	20		1	04/28/16	04/29/16 04:46	1011
2-Butanone (MEK)	ND	ug/L	10		1	04/28/16	04/29/16 04:46	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	04/28/16	04/29/16 04:46	1011
Carbon Disulfide	ND	ug/L	10		1	04/28/16	04/29/16 04:46	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	04/28/16	04/29/16 04:46	1011
Chlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 04:46	1011
Chloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 04:46	1011
Chloroform	ND	ug/L	1.0		1	04/28/16	04/29/16 04:46	1011
Chloromethane	ND	ug/L	1.0		1	04/28/16	04/29/16 04:46	1011
Cyclohexane	ND	ug/L	10		1	04/28/16	04/29/16 04:46	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	04/28/16	04/29/16 04:46	1011
Dibromochloromethane	ND	ug/L	1.0		1	04/28/16	04/29/16 04:46	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	04/28/16	04/29/16 04:46	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 04:46	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 04:46	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 04:46	1011
Dichlorodifluoromethane	ND	ug/L	1.0		1	04/28/16	04/29/16 04:46	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 04:46	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 04:46	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/29/16 04:46	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/29/16 04:46	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 43 **Date/Time Sampled: 04/22/2016 10:37** **PSS Sample ID: 16042215-026**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,2-Dichloropropane	ND	ug/L	1.0		1	04/28/16	04/29/16 04:46	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	04/28/16	04/29/16 04:46	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	04/28/16	04/29/16 04:46	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/29/16 04:46	1011
Diisopropyl ether	ND	ug/L	10		1	04/28/16	04/29/16 04:46	1011
Ethylbenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 04:46	1011
2-Hexanone	ND	ug/L	10		1	04/28/16	04/29/16 04:46	1011
Isopropylbenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 04:46	1011
Methyl Acetate	ND	ug/L	10		1	04/28/16	04/29/16 04:46	1011
Methylcyclohexane	ND	ug/L	10		1	04/28/16	04/29/16 04:46	1011
Methylene Chloride	ND	ug/L	1.0		1	04/28/16	04/29/16 04:46	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	04/28/16	04/29/16 04:46	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	04/28/16	04/29/16 04:46	1011
Naphthalene	ND	ug/L	1.0		1	04/28/16	04/29/16 04:46	1011
Styrene	ND	ug/L	1.0		1	04/28/16	04/29/16 04:46	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 04:46	1011
Tetrachloroethene	ND	ug/L	1.0		1	04/28/16	04/29/16 04:46	1011
Toluene	ND	ug/L	1.0		1	04/28/16	04/29/16 04:46	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 04:46	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 04:46	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 04:46	1011
Trichloroethene	ND	ug/L	1.0		1	04/28/16	04/29/16 04:46	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 04:46	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	04/28/16	04/29/16 04:46	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 04:46	1011
Vinyl Chloride	ND	ug/L	1.0		1	04/28/16	04/29/16 04:46	1011
m,p-Xylenes	ND	ug/L	2.0		1	04/28/16	04/29/16 04:46	1011
o-Xylene	ND	ug/L	1.0		1	04/28/16	04/29/16 04:46	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 42 **Date/Time Sampled: 04/22/2016 10:53** **PSS Sample ID: 16042215-027**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

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)	**4.2**	mg/L	0.11		1	04/26/16	04/26/16 23:42	1055

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 42 **Date/Time Sampled: 04/22/2016 10:53** **PSS Sample ID: 16042215-027**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	10		1	04/28/16	04/29/16 05:29	1011
tert-Amyl alcohol	ND	ug/L	20		1	04/28/16	04/29/16 05:29	1011
tert-Amyl methyl ether	ND	ug/L	10		1	04/28/16	04/29/16 05:29	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	04/28/16	04/29/16 05:29	1011
Benzene	ND	ug/L	1.0		1	04/28/16	04/29/16 05:29	1011
Bromochloromethane	ND	ug/L	1.0		1	04/28/16	04/29/16 05:29	1011
Bromodichloromethane	ND	ug/L	1.0		1	04/28/16	04/29/16 05:29	1011
Bromoform	ND	ug/L	5.0		1	04/28/16	04/29/16 05:29	1011
Bromomethane	ND	ug/L	1.0		1	04/28/16	04/29/16 05:29	1011
tert-Butyl alcohol	ND	ug/L	20		1	04/28/16	04/29/16 05:29	1011
2-Butanone (MEK)	ND	ug/L	10		1	04/28/16	04/29/16 05:29	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	04/28/16	04/29/16 05:29	1011
Carbon Disulfide	ND	ug/L	10		1	04/28/16	04/29/16 05:29	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	04/28/16	04/29/16 05:29	1011
Chlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 05:29	1011
Chloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 05:29	1011
Chloroform	ND	ug/L	1.0		1	04/28/16	04/29/16 05:29	1011
Chloromethane	ND	ug/L	1.0		1	04/28/16	04/29/16 05:29	1011
Cyclohexane	ND	ug/L	10		1	04/28/16	04/29/16 05:29	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	04/28/16	04/29/16 05:29	1011
Dibromochloromethane	ND	ug/L	1.0		1	04/28/16	04/29/16 05:29	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	04/28/16	04/29/16 05:29	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 05:29	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 05:29	1011
Dichlorodifluoromethane	ND	ug/L	1.0		1	04/28/16	04/29/16 05:29	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 05:29	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 05:29	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 05:29	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/29/16 05:29	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/29/16 05:29	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 42 **Date/Time Sampled: 04/22/2016 10:53** **PSS Sample ID: 16042215-027**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,2-Dichloropropane	ND	ug/L	1.0		1	04/28/16	04/29/16 05:29	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	04/28/16	04/29/16 05:29	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	04/28/16	04/29/16 05:29	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/29/16 05:29	1011
Diisopropyl ether	ND	ug/L	10		1	04/28/16	04/29/16 05:29	1011
Ethylbenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 05:29	1011
2-Hexanone	ND	ug/L	10		1	04/28/16	04/29/16 05:29	1011
Isopropylbenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 05:29	1011
Methyl Acetate	ND	ug/L	10		1	04/28/16	04/29/16 05:29	1011
Methylcyclohexane	ND	ug/L	10		1	04/28/16	04/29/16 05:29	1011
Methylene Chloride	ND	ug/L	1.0		1	04/28/16	04/29/16 05:29	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	04/28/16	04/29/16 05:29	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	04/28/16	04/29/16 05:29	1011
Naphthalene	ND	ug/L	1.0		1	04/28/16	04/29/16 05:29	1011
Styrene	ND	ug/L	1.0		1	04/28/16	04/29/16 05:29	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 05:29	1011
Tetrachloroethene	ND	ug/L	1.0		1	04/28/16	04/29/16 05:29	1011
Toluene	ND	ug/L	1.0		1	04/28/16	04/29/16 05:29	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 05:29	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 05:29	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 05:29	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 05:29	1011
Trichloroethene	ND	ug/L	1.0		1	04/28/16	04/29/16 05:29	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	04/28/16	04/29/16 05:29	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 05:29	1011
Vinyl Chloride	ND	ug/L	1.0		1	04/28/16	04/29/16 05:29	1011
m,p-Xylenes	ND	ug/L	2.0		1	04/28/16	04/29/16 05:29	1011
o-Xylene	ND	ug/L	1.0		1	04/28/16	04/29/16 05:29	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 45 **Date/Time Sampled: 04/22/2016 11:40** **PSS Sample ID: 16042215-028**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

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)	**5.9**	mg/L	0.11		1	04/26/16	04/26/16 23:42	1055

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 45 **Date/Time Sampled: 04/22/2016 11:40** **PSS Sample ID: 16042215-028**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	10		1	04/28/16	04/29/16 06:11	1011
tert-Amyl alcohol	ND	ug/L	20		1	04/28/16	04/29/16 06:11	1011
tert-Amyl methyl ether	ND	ug/L	10		1	04/28/16	04/29/16 06:11	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	04/28/16	04/29/16 06:11	1011
Benzene	ND	ug/L	1.0		1	04/28/16	04/29/16 06:11	1011
Bromochloromethane	ND	ug/L	1.0		1	04/28/16	04/29/16 06:11	1011
Bromodichloromethane	ND	ug/L	1.0		1	04/28/16	04/29/16 06:11	1011
Bromoform	ND	ug/L	5.0		1	04/28/16	04/29/16 06:11	1011
Bromomethane	ND	ug/L	1.0		1	04/28/16	04/29/16 06:11	1011
tert-Butyl alcohol	ND	ug/L	20		1	04/28/16	04/29/16 06:11	1011
2-Butanone (MEK)	ND	ug/L	10		1	04/28/16	04/29/16 06:11	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	04/28/16	04/29/16 06:11	1011
Carbon Disulfide	ND	ug/L	10		1	04/28/16	04/29/16 06:11	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	04/28/16	04/29/16 06:11	1011
Chlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 06:11	1011
Chloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 06:11	1011
Chloroform	ND	ug/L	1.0		1	04/28/16	04/29/16 06:11	1011
Chloromethane	ND	ug/L	1.0		1	04/28/16	04/29/16 06:11	1011
Cyclohexane	ND	ug/L	10		1	04/28/16	04/29/16 06:11	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	04/28/16	04/29/16 06:11	1011
Dibromochloromethane	ND	ug/L	1.0		1	04/28/16	04/29/16 06:11	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	04/28/16	04/29/16 06:11	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 06:11	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 06:11	1011
Dichlorodifluoromethane	ND	ug/L	1.0		1	04/28/16	04/29/16 06:11	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 06:11	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 06:11	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 06:11	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/29/16 06:11	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/29/16 06:11	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 45 **Date/Time Sampled: 04/22/2016 11:40** **PSS Sample ID: 16042215-028**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,2-Dichloropropane	ND	ug/L	1.0		1	04/28/16	04/29/16 06:11	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	04/28/16	04/29/16 06:11	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	04/28/16	04/29/16 06:11	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	04/28/16	04/29/16 06:11	1011
Diisopropyl ether	ND	ug/L	10		1	04/28/16	04/29/16 06:11	1011
Ethylbenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 06:11	1011
2-Hexanone	ND	ug/L	10		1	04/28/16	04/29/16 06:11	1011
Isopropylbenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 06:11	1011
Methyl Acetate	ND	ug/L	10		1	04/28/16	04/29/16 06:11	1011
Methylcyclohexane	ND	ug/L	10		1	04/28/16	04/29/16 06:11	1011
Methylene Chloride	ND	ug/L	1.0		1	04/28/16	04/29/16 06:11	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	04/28/16	04/29/16 06:11	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	04/28/16	04/29/16 06:11	1011
Naphthalene	ND	ug/L	1.0		1	04/28/16	04/29/16 06:11	1011
Styrene	ND	ug/L	1.0		1	04/28/16	04/29/16 06:11	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 06:11	1011
Tetrachloroethene	ND	ug/L	1.0		1	04/28/16	04/29/16 06:11	1011
Toluene	ND	ug/L	1.0		1	04/28/16	04/29/16 06:11	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 06:11	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	04/28/16	04/29/16 06:11	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 06:11	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 06:11	1011
Trichloroethene	ND	ug/L	1.0		1	04/28/16	04/29/16 06:11	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	04/28/16	04/29/16 06:11	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	04/28/16	04/29/16 06:11	1011
Vinyl Chloride	ND	ug/L	1.0		1	04/28/16	04/29/16 06:11	1011
m,p-Xylenes	ND	ug/L	2.0		1	04/28/16	04/29/16 06:11	1011
o-Xylene	ND	ug/L	1.0		1	04/28/16	04/29/16 06:11	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 46 **Date/Time Sampled: 04/22/2016 10:55** **PSS Sample ID: 16042215-029**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

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)	**5.7**	mg/L	0.11		1	04/26/16	04/27/16 00:53	1055

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 46 **Date/Time Sampled: 04/22/2016 10:55** **PSS Sample ID: 16042215-029**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	10		1	04/29/16	04/29/16 11:51	1011
tert-Amyl alcohol	ND	ug/L	20		1	04/29/16	04/29/16 11:51	1011
tert-Amyl methyl ether	ND	ug/L	10		1	04/29/16	04/29/16 11:51	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	04/29/16	04/29/16 11:51	1011
Benzene	ND	ug/L	1.0		1	04/29/16	04/29/16 11:51	1011
Bromochloromethane	ND	ug/L	1.0		1	04/29/16	04/29/16 11:51	1011
Bromodichloromethane	ND	ug/L	1.0		1	04/29/16	04/29/16 11:51	1011
Bromoform	ND	ug/L	5.0		1	04/29/16	04/29/16 11:51	1011
Bromomethane	ND	ug/L	1.0		1	04/29/16	04/29/16 11:51	1011
tert-Butyl alcohol	ND	ug/L	20		1	04/29/16	04/29/16 11:51	1011
2-Butanone (MEK)	ND	ug/L	10		1	04/29/16	04/29/16 11:51	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	04/29/16	04/29/16 11:51	1011
Carbon Disulfide	ND	ug/L	10		1	04/29/16	04/29/16 11:51	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	04/29/16	04/29/16 11:51	1011
Chlorobenzene	ND	ug/L	1.0		1	04/29/16	04/29/16 11:51	1011
Chloroethane	ND	ug/L	1.0		1	04/29/16	04/29/16 11:51	1011
Chloroform	ND	ug/L	1.0		1	04/29/16	04/29/16 11:51	1011
Chloromethane	ND	ug/L	1.0		1	04/29/16	04/29/16 11:51	1011
Cyclohexane	ND	ug/L	10		1	04/29/16	04/29/16 11:51	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	04/29/16	04/29/16 11:51	1011
Dibromochloromethane	ND	ug/L	1.0		1	04/29/16	04/29/16 11:51	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	04/29/16	04/29/16 11:51	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	04/29/16	04/29/16 11:51	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	04/29/16	04/29/16 11:51	1011
Dichlorodifluoromethane	ND	ug/L	1.0		1	04/29/16	04/29/16 11:51	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	04/29/16	04/29/16 11:51	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	04/29/16	04/29/16 11:51	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	04/29/16	04/29/16 11:51	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	04/29/16	04/29/16 11:51	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	04/29/16	04/29/16 11:51	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 46 **Date/Time Sampled: 04/22/2016 10:55** **PSS Sample ID: 16042215-029**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,2-Dichloropropane	ND	ug/L	1.0		1	04/29/16	04/29/16 11:51	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	04/29/16	04/29/16 11:51	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	04/29/16	04/29/16 11:51	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	04/29/16	04/29/16 11:51	1011
Diisopropyl ether	ND	ug/L	10		1	04/29/16	04/29/16 11:51	1011
Ethylbenzene	ND	ug/L	1.0		1	04/29/16	04/29/16 11:51	1011
2-Hexanone	ND	ug/L	10		1	04/29/16	04/29/16 11:51	1011
Isopropylbenzene	**1.1**	ug/L	1.0		1	04/29/16	04/29/16 11:51	1011
Methyl Acetate	ND	ug/L	10		1	04/29/16	04/29/16 11:51	1011
Methylcyclohexane	ND	ug/L	10		1	04/29/16	04/29/16 11:51	1011
Methylene Chloride	ND	ug/L	1.0		1	04/29/16	04/29/16 11:51	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	04/29/16	04/29/16 11:51	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	04/29/16	04/29/16 11:51	1011
Naphthalene	**3.7**	ug/L	1.0		1	04/29/16	04/29/16 11:51	1011
Styrene	ND	ug/L	1.0		1	04/29/16	04/29/16 11:51	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	04/29/16	04/29/16 11:51	1011
Tetrachloroethene	ND	ug/L	1.0		1	04/29/16	04/29/16 11:51	1011
Toluene	ND	ug/L	1.0		1	04/29/16	04/29/16 11:51	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	04/29/16	04/29/16 11:51	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	04/29/16	04/29/16 11:51	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	04/29/16	04/29/16 11:51	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	04/29/16	04/29/16 11:51	1011
Trichloroethene	ND	ug/L	1.0		1	04/29/16	04/29/16 11:51	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	04/29/16	04/29/16 11:51	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	04/29/16	04/29/16 11:51	1011
Vinyl Chloride	ND	ug/L	1.0		1	04/29/16	04/29/16 11:51	1011
m,p-Xylenes	ND	ug/L	2.0		1	04/29/16	04/29/16 11:51	1011
o-Xylene	**1.5**	ug/L	1.0		1	04/29/16	04/29/16 11:51	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 5 **Date/Time Sampled: 04/22/2016 11:05** **PSS Sample ID: 16042215-030**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

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)	**3.2**	mg/L	0.11		1	04/26/16	04/27/16 00:53	1055

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 5 **Date/Time Sampled: 04/22/2016 11:05** **PSS Sample ID: 16042215-030**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	10		1	04/29/16	04/29/16 12:34	1011
tert-Amyl alcohol	ND	ug/L	20		1	04/29/16	04/29/16 12:34	1011
tert-Amyl methyl ether	ND	ug/L	10		1	04/29/16	04/29/16 12:34	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	04/29/16	04/29/16 12:34	1011
Benzene	ND	ug/L	1.0		1	04/29/16	04/29/16 12:34	1011
Bromochloromethane	ND	ug/L	1.0		1	04/29/16	04/29/16 12:34	1011
Bromodichloromethane	ND	ug/L	1.0		1	04/29/16	04/29/16 12:34	1011
Bromoform	ND	ug/L	5.0		1	04/29/16	04/29/16 12:34	1011
Bromomethane	ND	ug/L	1.0		1	04/29/16	04/29/16 12:34	1011
tert-Butyl alcohol	ND	ug/L	20		1	04/29/16	04/29/16 12:34	1011
2-Butanone (MEK)	ND	ug/L	10		1	04/29/16	04/29/16 12:34	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	04/29/16	04/29/16 12:34	1011
Carbon Disulfide	ND	ug/L	10		1	04/29/16	04/29/16 12:34	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	04/29/16	04/29/16 12:34	1011
Chlorobenzene	ND	ug/L	1.0		1	04/29/16	04/29/16 12:34	1011
Chloroethane	ND	ug/L	1.0		1	04/29/16	04/29/16 12:34	1011
Chloroform	ND	ug/L	1.0		1	04/29/16	04/29/16 12:34	1011
Chloromethane	ND	ug/L	1.0		1	04/29/16	04/29/16 12:34	1011
Cyclohexane	ND	ug/L	10		1	04/29/16	04/29/16 12:34	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	04/29/16	04/29/16 12:34	1011
Dibromochloromethane	ND	ug/L	1.0		1	04/29/16	04/29/16 12:34	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	04/29/16	04/29/16 12:34	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	04/29/16	04/29/16 12:34	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	04/29/16	04/29/16 12:34	1011
Dichlorodifluoromethane	ND	ug/L	1.0		1	04/29/16	04/29/16 12:34	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	04/29/16	04/29/16 12:34	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	04/29/16	04/29/16 12:34	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	04/29/16	04/29/16 12:34	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	04/29/16	04/29/16 12:34	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	04/29/16	04/29/16 12:34	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 5 **Date/Time Sampled: 04/22/2016 11:05** **PSS Sample ID: 16042215-030**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,2-Dichloropropane	ND	ug/L	1.0		1	04/29/16	04/29/16 12:34	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	04/29/16	04/29/16 12:34	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	04/29/16	04/29/16 12:34	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	04/29/16	04/29/16 12:34	1011
Diisopropyl ether	ND	ug/L	10		1	04/29/16	04/29/16 12:34	1011
Ethylbenzene	ND	ug/L	1.0		1	04/29/16	04/29/16 12:34	1011
2-Hexanone	ND	ug/L	10		1	04/29/16	04/29/16 12:34	1011
Isopropylbenzene	ND	ug/L	1.0		1	04/29/16	04/29/16 12:34	1011
Methyl Acetate	ND	ug/L	10		1	04/29/16	04/29/16 12:34	1011
Methylcyclohexane	ND	ug/L	10		1	04/29/16	04/29/16 12:34	1011
Methylene Chloride	ND	ug/L	1.0		1	04/29/16	04/29/16 12:34	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	04/29/16	04/29/16 12:34	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	04/29/16	04/29/16 12:34	1011
Naphthalene	ND	ug/L	1.0		1	04/29/16	04/29/16 12:34	1011
Styrene	ND	ug/L	1.0		1	04/29/16	04/29/16 12:34	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	04/29/16	04/29/16 12:34	1011
Tetrachloroethene	ND	ug/L	1.0		1	04/29/16	04/29/16 12:34	1011
Toluene	ND	ug/L	1.0		1	04/29/16	04/29/16 12:34	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	04/29/16	04/29/16 12:34	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	04/29/16	04/29/16 12:34	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	04/29/16	04/29/16 12:34	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	04/29/16	04/29/16 12:34	1011
Trichloroethene	ND	ug/L	1.0		1	04/29/16	04/29/16 12:34	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	04/29/16	04/29/16 12:34	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	04/29/16	04/29/16 12:34	1011
Vinyl Chloride	ND	ug/L	1.0		1	04/29/16	04/29/16 12:34	1011
m,p-Xylenes	ND	ug/L	2.0		1	04/29/16	04/29/16 12:34	1011
o-Xylene	ND	ug/L	1.0		1	04/29/16	04/29/16 12:34	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 37 **Date/Time Sampled: 04/22/2016 09:40** **PSS Sample ID: 16042215-031**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

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)	**5.2**	mg/L	0.10		1	04/26/16	04/27/16 04:50	1055

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 37 **Date/Time Sampled: 04/22/2016 09:40** **PSS Sample ID: 16042215-031**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	10		1	04/29/16	04/29/16 13:17	1011
tert-Amyl alcohol	ND	ug/L	20		1	04/29/16	04/29/16 13:17	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	04/29/16	04/29/16 13:17	1011
tert-Amyl methyl ether	ND	ug/L	10		1	04/29/16	04/29/16 13:17	1011
Benzene	ND	ug/L	1.0		1	04/29/16	04/29/16 13:17	1011
Bromochloromethane	ND	ug/L	1.0		1	04/29/16	04/29/16 13:17	1011
Bromodichloromethane	ND	ug/L	1.0		1	04/29/16	04/29/16 13:17	1011
Bromoform	ND	ug/L	5.0		1	04/29/16	04/29/16 13:17	1011
Bromomethane	ND	ug/L	1.0		1	04/29/16	04/29/16 13:17	1011
tert-Butyl alcohol	ND	ug/L	20		1	04/29/16	04/29/16 13:17	1011
2-Butanone (MEK)	ND	ug/L	10		1	04/29/16	04/29/16 13:17	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	04/29/16	04/29/16 13:17	1011
Carbon Disulfide	ND	ug/L	10		1	04/29/16	04/29/16 13:17	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	04/29/16	04/29/16 13:17	1011
Chlorobenzene	ND	ug/L	1.0		1	04/29/16	04/29/16 13:17	1011
Chloroethane	ND	ug/L	1.0		1	04/29/16	04/29/16 13:17	1011
Chloroform	ND	ug/L	1.0		1	04/29/16	04/29/16 13:17	1011
Chloromethane	ND	ug/L	1.0		1	04/29/16	04/29/16 13:17	1011
Cyclohexane	ND	ug/L	10		1	04/29/16	04/29/16 13:17	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	04/29/16	04/29/16 13:17	1011
Dibromochloromethane	ND	ug/L	1.0		1	04/29/16	04/29/16 13:17	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	04/29/16	04/29/16 13:17	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	04/29/16	04/29/16 13:17	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	04/29/16	04/29/16 13:17	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	04/29/16	04/29/16 13:17	1011
Dichlorodifluoromethane	ND	ug/L	1.0		1	04/29/16	04/29/16 13:17	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	04/29/16	04/29/16 13:17	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	04/29/16	04/29/16 13:17	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	04/29/16	04/29/16 13:17	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	04/29/16	04/29/16 13:17	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 37 **Date/Time Sampled: 04/22/2016 09:40** **PSS Sample ID: 16042215-031**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,2-Dichloropropane	ND	ug/L	1.0		1	04/29/16	04/29/16 13:17	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	04/29/16	04/29/16 13:17	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	04/29/16	04/29/16 13:17	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	04/29/16	04/29/16 13:17	1011
Diisopropyl ether	ND	ug/L	10		1	04/29/16	04/29/16 13:17	1011
Ethylbenzene	ND	ug/L	1.0		1	04/29/16	04/29/16 13:17	1011
2-Hexanone	ND	ug/L	10		1	04/29/16	04/29/16 13:17	1011
Isopropylbenzene	ND	ug/L	1.0		1	04/29/16	04/29/16 13:17	1011
Methyl Acetate	ND	ug/L	10		1	04/29/16	04/29/16 13:17	1011
Methylcyclohexane	ND	ug/L	10		1	04/29/16	04/29/16 13:17	1011
Methylene Chloride	ND	ug/L	1.0		1	04/29/16	04/29/16 13:17	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	04/29/16	04/29/16 13:17	1011
Methyl-t-butyl ether	**1.4**	ug/L	1.0		1	04/29/16	04/29/16 13:17	1011
Naphthalene	ND	ug/L	1.0		1	04/29/16	04/29/16 13:17	1011
Styrene	ND	ug/L	1.0		1	04/29/16	04/29/16 13:17	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	04/29/16	04/29/16 13:17	1011
Tetrachloroethene	ND	ug/L	1.0		1	04/29/16	04/29/16 13:17	1011
Toluene	ND	ug/L	1.0		1	04/29/16	04/29/16 13:17	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	04/29/16	04/29/16 13:17	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	04/29/16	04/29/16 13:17	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	04/29/16	04/29/16 13:17	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	04/29/16	04/29/16 13:17	1011
Trichloroethene	ND	ug/L	1.0		1	04/29/16	04/29/16 13:17	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	04/29/16	04/29/16 13:17	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	04/29/16	04/29/16 13:17	1011
Vinyl Chloride	ND	ug/L	1.0		1	04/29/16	04/29/16 13:17	1011
m,p-Xylenes	ND	ug/L	2.0		1	04/29/16	04/29/16 13:17	1011
o-Xylene	ND	ug/L	1.0		1	04/29/16	04/29/16 13:17	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 44 **Date/Time Sampled: 04/22/2016 11:03** **PSS Sample ID: 16042215-032**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

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	04/26/16	04/27/16 04:50	1055

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 44 **Date/Time Sampled: 04/22/2016 11:03** **PSS Sample ID: 16042215-032**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	10		1	04/29/16	04/29/16 13:59	1011
tert-Amyl alcohol	ND	ug/L	20		1	04/29/16	04/29/16 13:59	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	04/29/16	04/29/16 13:59	1011
tert-Amyl methyl ether	ND	ug/L	10		1	04/29/16	04/29/16 13:59	1011
Benzene	ND	ug/L	1.0		1	04/29/16	04/29/16 13:59	1011
Bromochloromethane	ND	ug/L	1.0		1	04/29/16	04/29/16 13:59	1011
Bromodichloromethane	ND	ug/L	1.0		1	04/29/16	04/29/16 13:59	1011
Bromoform	ND	ug/L	5.0		1	04/29/16	04/29/16 13:59	1011
Bromomethane	ND	ug/L	1.0		1	04/29/16	04/29/16 13:59	1011
tert-Butyl alcohol	ND	ug/L	20		1	04/29/16	04/29/16 13:59	1011
2-Butanone (MEK)	ND	ug/L	10		1	04/29/16	04/29/16 13:59	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	04/29/16	04/29/16 13:59	1011
Carbon Disulfide	ND	ug/L	10		1	04/29/16	04/29/16 13:59	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	04/29/16	04/29/16 13:59	1011
Chlorobenzene	ND	ug/L	1.0		1	04/29/16	04/29/16 13:59	1011
Chloroethane	ND	ug/L	1.0		1	04/29/16	04/29/16 13:59	1011
Chloroform	ND	ug/L	1.0		1	04/29/16	04/29/16 13:59	1011
Chloromethane	ND	ug/L	1.0		1	04/29/16	04/29/16 13:59	1011
Cyclohexane	ND	ug/L	10		1	04/29/16	04/29/16 13:59	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	04/29/16	04/29/16 13:59	1011
Dibromochloromethane	ND	ug/L	1.0		1	04/29/16	04/29/16 13:59	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	04/29/16	04/29/16 13:59	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	04/29/16	04/29/16 13:59	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	04/29/16	04/29/16 13:59	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	04/29/16	04/29/16 13:59	1011
Dichlorodifluoromethane	ND	ug/L	1.0		1	04/29/16	04/29/16 13:59	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	04/29/16	04/29/16 13:59	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	04/29/16	04/29/16 13:59	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	04/29/16	04/29/16 13:59	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	04/29/16	04/29/16 13:59	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 44 **Date/Time Sampled: 04/22/2016 11:03** **PSS Sample ID: 16042215-032**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,2-Dichloropropane	ND	ug/L	1.0		1	04/29/16	04/29/16 13:59	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	04/29/16	04/29/16 13:59	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	04/29/16	04/29/16 13:59	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	04/29/16	04/29/16 13:59	1011
Diisopropyl ether	ND	ug/L	10		1	04/29/16	04/29/16 13:59	1011
Ethylbenzene	ND	ug/L	1.0		1	04/29/16	04/29/16 13:59	1011
2-Hexanone	ND	ug/L	10		1	04/29/16	04/29/16 13:59	1011
Isopropylbenzene	ND	ug/L	1.0		1	04/29/16	04/29/16 13:59	1011
Methyl Acetate	ND	ug/L	10		1	04/29/16	04/29/16 13:59	1011
Methylcyclohexane	ND	ug/L	10		1	04/29/16	04/29/16 13:59	1011
Methylene Chloride	ND	ug/L	1.0		1	04/29/16	04/29/16 13:59	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	04/29/16	04/29/16 13:59	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	04/29/16	04/29/16 13:59	1011
Naphthalene	ND	ug/L	1.0		1	04/29/16	04/29/16 13:59	1011
Styrene	ND	ug/L	1.0		1	04/29/16	04/29/16 13:59	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	04/29/16	04/29/16 13:59	1011
Tetrachloroethene	ND	ug/L	1.0		1	04/29/16	04/29/16 13:59	1011
Toluene	ND	ug/L	1.0		1	04/29/16	04/29/16 13:59	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	04/29/16	04/29/16 13:59	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	04/29/16	04/29/16 13:59	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	04/29/16	04/29/16 13:59	1011
Trichloroethene	ND	ug/L	1.0		1	04/29/16	04/29/16 13:59	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	04/29/16	04/29/16 13:59	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	04/29/16	04/29/16 13:59	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	04/29/16	04/29/16 13:59	1011
Vinyl Chloride	ND	ug/L	1.0		1	04/29/16	04/29/16 13:59	1011
m,p-Xylenes	ND	ug/L	2.0		1	04/29/16	04/29/16 13:59	1011
o-Xylene	ND	ug/L	1.0		1	04/29/16	04/29/16 13:59	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 13 **Date/Time Sampled: 04/22/2016 09:00** **PSS Sample ID: 16042215-033**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

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)	**4.7**	mg/L	0.10		1	04/26/16	04/27/16 12:42	1055

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 13 **Date/Time Sampled: 04/22/2016 09:00** **PSS Sample ID: 16042215-033**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	10		1	04/29/16	04/29/16 14:56	1011
tert-Amyl alcohol	ND	ug/L	20		1	04/29/16	04/29/16 14:56	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	04/29/16	04/29/16 14:56	1011
tert-Amyl methyl ether	ND	ug/L	10		1	04/29/16	04/29/16 14:56	1011
Benzene	ND	ug/L	1.0		1	04/29/16	04/29/16 14:56	1011
Bromochloromethane	ND	ug/L	1.0		1	04/29/16	04/29/16 14:56	1011
Bromodichloromethane	ND	ug/L	1.0		1	04/29/16	04/29/16 14:56	1011
Bromoform	ND	ug/L	5.0		1	04/29/16	04/29/16 14:56	1011
Bromomethane	ND	ug/L	1.0		1	04/29/16	04/29/16 14:56	1011
tert-Butyl alcohol	ND	ug/L	20		1	04/29/16	04/29/16 14:56	1011
2-Butanone (MEK)	ND	ug/L	10		1	04/29/16	04/29/16 14:56	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	04/29/16	04/29/16 14:56	1011
Carbon Disulfide	ND	ug/L	10		1	04/29/16	04/29/16 14:56	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	04/29/16	04/29/16 14:56	1011
Chlorobenzene	ND	ug/L	1.0		1	04/29/16	04/29/16 14:56	1011
Chloroethane	ND	ug/L	1.0		1	04/29/16	04/29/16 14:56	1011
Chloroform	ND	ug/L	1.0		1	04/29/16	04/29/16 14:56	1011
Chloromethane	ND	ug/L	1.0		1	04/29/16	04/29/16 14:56	1011
Cyclohexane	ND	ug/L	10		1	04/29/16	04/29/16 14:56	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	04/29/16	04/29/16 14:56	1011
Dibromochloromethane	ND	ug/L	1.0		1	04/29/16	04/29/16 14:56	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	04/29/16	04/29/16 14:56	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	04/29/16	04/29/16 14:56	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	04/29/16	04/29/16 14:56	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	04/29/16	04/29/16 14:56	1011
Dichlorodifluoromethane	ND	ug/L	1.0		1	04/29/16	04/29/16 14:56	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	04/29/16	04/29/16 14:56	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	04/29/16	04/29/16 14:56	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	04/29/16	04/29/16 14:56	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	04/29/16	04/29/16 14:56	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16042215

UMM Shore Regional Health Chestertown, Chestertown, MD

May 6, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 13 **Date/Time Sampled: 04/22/2016 09:00** **PSS Sample ID: 16042215-033**
Matrix: GROUND WATER **Date/Time Received: 04/22/2016 14:45**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,2-Dichloropropane	ND	ug/L	1.0		1	04/29/16	04/29/16 14:56	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	04/29/16	04/29/16 14:56	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	04/29/16	04/29/16 14:56	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	04/29/16	04/29/16 14:56	1011
Diisopropyl ether	ND	ug/L	10		1	04/29/16	04/29/16 14:56	1011
Ethylbenzene	ND	ug/L	1.0		1	04/29/16	04/29/16 14:56	1011
2-Hexanone	ND	ug/L	10		1	04/29/16	04/29/16 14:56	1011
Isopropylbenzene	ND	ug/L	1.0		1	04/29/16	04/29/16 14:56	1011
Methyl Acetate	ND	ug/L	10		1	04/29/16	04/29/16 14:56	1011
Methylcyclohexane	ND	ug/L	10		1	04/29/16	04/29/16 14:56	1011
Methylene Chloride	ND	ug/L	1.0		1	04/29/16	04/29/16 14:56	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	04/29/16	04/29/16 14:56	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	04/29/16	04/29/16 14:56	1011
Naphthalene	ND	ug/L	1.0		1	04/29/16	04/29/16 14:56	1011
Styrene	ND	ug/L	1.0		1	04/29/16	04/29/16 14:56	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	04/29/16	04/29/16 14:56	1011
Tetrachloroethene	ND	ug/L	1.0		1	04/29/16	04/29/16 14:56	1011
Toluene	ND	ug/L	1.0		1	04/29/16	04/29/16 14:56	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	04/29/16	04/29/16 14:56	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	04/29/16	04/29/16 14:56	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	04/29/16	04/29/16 14:56	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	04/29/16	04/29/16 14:56	1011
Trichloroethene	ND	ug/L	1.0		1	04/29/16	04/29/16 14:56	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	04/29/16	04/29/16 14:56	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	04/29/16	04/29/16 14:56	1011
Vinyl Chloride	ND	ug/L	1.0		1	04/29/16	04/29/16 14:56	1011
m,p-Xylenes	ND	ug/L	2.0		1	04/29/16	04/29/16 14:56	1011
o-Xylene	ND	ug/L	1.0		1	04/29/16	04/29/16 14:56	1011

Case Narrative Summary

Client Name: UMM Shore Regional Health Chestertown

Project Name: CRHC

Work Order Number(s): 16042215

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.

Matrix spike and matrix spike duplicate analyses may not be performed due to insufficient sample quantity. In these instances, a laboratory control sample and laboratory control sample duplicate are analyzed unless otherwise noted or specified in the method.

Sample Receipt:

All sample receipt conditions were acceptable.

General Comments:
Revised report includes DRO results for sample 16042215-013 per client request.

Analytical:

TCL Volatiles plus Oxygenates

Batch: 132148
Surrogate exceedances identified; see surrogate summary form.

Batch: 132171
Surrogate exceedances identified; see surrogate summary form.

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): 16042215
Report Prepared For: UMM Shore Regional Health Chestertown, Cl
Project Name: Chester River Hospital Center-CRHC
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 4	Initial	16042215-016	1055	W	60498	132091	04/22/2016	04/26/2016 08:22	04/26/2016 18:09
	MW 2	Initial	16042215-017	1055	W	60498	132091	04/22/2016	04/26/2016 08:22	04/26/2016 18:56
	MW 1	Initial	16042215-018	1055	W	60498	132091	04/22/2016	04/26/2016 08:22	04/26/2016 19:44
	MW 31R	Initial	16042215-019	1055	W	60498	132091	04/22/2016	04/26/2016 08:22	04/26/2016 20:31
	MW 17	Initial	16042215-020	1055	W	60498	132091	04/22/2016	04/26/2016 08:22	04/26/2016 20:31
	MW 47	Initial	16042215-021	1055	W	60498	132091	04/22/2016	04/26/2016 08:22	04/26/2016 21:19
	MW 49	Initial	16042215-022	1055	W	60498	132091	04/22/2016	04/26/2016 08:22	04/26/2016 21:19
	MW 48	Initial	16042215-023	1055	W	60498	132091	04/22/2016	04/26/2016 08:22	04/26/2016 22:07
	MW 50	Initial	16042215-024	1055	W	60498	132091	04/22/2016	04/26/2016 08:22	04/26/2016 22:07
	MW 10R	Initial	16042215-025	1055	W	60498	132091	04/22/2016	04/26/2016 08:22	04/26/2016 22:54
	MW 43	Initial	16042215-026	1055	W	60498	132091	04/22/2016	04/26/2016 08:22	04/26/2016 22:54
	MW 42	Initial	16042215-027	1055	W	60498	132091	04/22/2016	04/26/2016 08:22	04/26/2016 23:42
	MW 45	Initial	16042215-028	1055	W	60498	132091	04/22/2016	04/26/2016 08:22	04/26/2016 23:42
	MW 46	Initial	16042215-029	1055	W	60498	132091	04/22/2016	04/26/2016 08:22	04/27/2016 00:53
	MW 5	Initial	16042215-030	1055	W	60498	132091	04/22/2016	04/26/2016 08:22	04/27/2016 00:53
	MW 37	Initial	16042215-031	1055	W	60498	132091	04/22/2016	04/26/2016 08:22	04/27/2016 04:50
	MW 44	Initial	16042215-032	1055	W	60498	132091	04/22/2016	04/26/2016 08:22	04/27/2016 04:50
	MW 13	Initial	16042215-033	1055	W	60498	132091	04/22/2016	04/26/2016 08:22	04/27/2016 12:42
	60498-1-BKS	BKS	60498-1-BKS	1055	W	60498	132091	--------	04/26/2016 08:22	04/26/2016 18:32
	60498-1-BLK	BLK	60498-1-BLK	1055	W	60498	132091	--------	04/26/2016 08:22	04/26/2016 18:09
	60498-1-BSD	BSD	60498-1-BSD	1055	W	60498	132091	--------	04/26/2016 08:22	04/26/2016 18:56
	RW 2D	Initial	16042215-001	1055	W	60489	132106	04/21/2016	04/25/2016 12:43	04/26/2016 17:00
	RW 3B	Initial	16042215-002	1055	W	60489	132106	04/21/2016	04/25/2016 12:43	04/26/2016 17:25
	RW 4	Initial	16042215-003	1055	W	60489	132106	04/21/2016	04/25/2016 12:43	04/26/2016 17:25
	RW 5	Initial	16042215-004	1055	W	60489	132106	04/21/2016	04/25/2016 12:43	04/26/2016 17:51
	RW 6	Initial	16042215-005	1055	W	60489	132106	04/21/2016	04/25/2016 12:43	04/26/2016 18:16
	MW 22	Initial	16042215-006	1055	W	60489	132106	04/21/2016	04/25/2016 12:43	04/26/2016 18:41
	MW 14	Initial	16042215-007	1055	W	60489	132106	04/22/2016	04/25/2016 12:43	04/26/2016 19:07
	MW 9	Initial	16042215-008	1055	W	60489	132106	04/22/2016	04/25/2016 12:43	04/26/2016 19:32

Analytical Data Package Information Summary

Work Order(s): 16042215
Report Prepared For: UMM Shore Regional Health Chestertown, Cl
Project Name: Chester River Hospital Center-CRHC
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 40	Initial	16042215-009	1055	W	60489	132106	04/22/2016	04/25/2016 12:43	04/26/2016 19:57
	MW 11	Initial	16042215-010	1055	W	60489	132106	04/22/2016	04/25/2016 12:43	04/26/2016 20:22
	MW 32	Initial	16042215-011	1055	W	60489	132106	04/22/2016	04/25/2016 12:43	04/26/2016 21:13
	MW 15	Initial	16042215-012	1055	W	60489	132106	04/22/2016	04/25/2016 12:43	04/26/2016 21:38
	Sys Eff	Initial	16042215-013	1055	W	60489	132106	04/22/2016	04/25/2016 12:43	04/26/2016 22:28
	MW 41	Initial	16042215-014	1055	W	60489	132106	04/22/2016	04/25/2016 12:43	04/26/2016 22:53
	MW 3	Initial	16042215-015	1055	W	60489	132106	04/22/2016	04/25/2016 12:43	04/26/2016 23:44
	60489-1-BKS	BKS	60489-1-BKS	1055	W	60489	132106	--------	04/25/2016 12:43	04/26/2016 16:35
	60489-1-BLK	BLK	60489-1-BLK	1055	W	60489	132106	--------	04/25/2016 12:43	04/26/2016 16:35
	60489-1-BSD	BSD	60489-1-BSD	1055	W	60489	132106	--------	04/25/2016 12:43	04/26/2016 17:00
SW-846 8015C	Sys Eff	Initial	16042215-013	1035	W	60598	132196	04/22/2016	04/29/2016 14:42	05/02/2016 11:06
	60598-2-BKS	BKS	60598-2-BKS	1035	W	60598	132196	--------	04/29/2016 14:42	04/29/2016 17:15
	60598-2-BLK	BLK	60598-2-BLK	1035	W	60598	132196	--------	04/29/2016 14:42	04/29/2016 16:50
	10541-MW5-GW S	MS	16042810-001 S	1035	W	60598	132196	04/27/2016	04/29/2016 14:42	05/02/2016 09:24
	10541-MW5-GW SD	MSD	16042810-001 SD	1035	W	60598	132196	04/27/2016	04/29/2016 14:42	05/02/2016 09:49
SW-846 8260 B	RW 2D	Initial	16042215-001	1011	W	60506	132033	04/21/2016	04/25/2016 09:03	04/25/2016 13:31
	RW 3B	Initial	16042215-002	1011	W	60506	132033	04/21/2016	04/25/2016 09:03	04/25/2016 14:51
	RW 4	Initial	16042215-003	1011	W	60506	132033	04/21/2016	04/25/2016 09:03	04/25/2016 16:10
	RW 5	Initial	16042215-004	1011	W	60506	132033	04/21/2016	04/25/2016 09:03	04/25/2016 16:50
	RW 6	Initial	16042215-005	1011	W	60506	132033	04/21/2016	04/25/2016 09:03	04/25/2016 17:30
	MW 22	Initial	16042215-006	1011	W	60506	132033	04/21/2016	04/25/2016 09:03	04/25/2016 18:10
	MW 14	Initial	16042215-007	1011	W	60506	132033	04/22/2016	04/25/2016 09:03	04/25/2016 18:49
	MW 9	Initial	16042215-008	1011	W	60506	132033	04/22/2016	04/25/2016 09:03	04/25/2016 15:31
	60506-1-BKS	BKS	60506-1-BKS	1011	W	60506	132033	--------	04/25/2016 09:03	04/25/2016 10:53
	60506-1-BLK	BLK	60506-1-BLK	1011	W	60506	132033	--------	04/25/2016 09:03	04/25/2016 12:52
	RW 2D S	MS	16042215-001 S	1011	W	60506	132033	04/21/2016	04/25/2016 09:03	04/25/2016 19:29
	RW 2 SD	MSD	16042215-001 SD	1011	W	60506	132033	04/21/2016	04/25/2016 09:03	04/25/2016 20:09
	MW 40	Initial	16042215-009	1011	W	60507	132034	04/22/2016	04/25/2016 09:22	04/25/2016 16:17

Analytical Data Package Information Summary

Work Order(s): 16042215
Report Prepared For: UMM Shore Regional Health Chestertown, Cl
Project Name: Chester River Hospital Center-CRHC
Project Manager: Ken Hannon

Method	Client Sample Id	Analysis Type	Lab Sample Id	Analyst	Mtx	Prep Batch	Analytical Batch	Sampled	Prepared	Analyzed
SW-846 8260 B	MW 32	Initial	16042215-011	1011	W	60507	132034	04/22/2016	04/25/2016 09:22	04/25/2016 16:59
	MW 15	Initial	16042215-012	1011	W	60507	132034	04/22/2016	04/25/2016 09:22	04/25/2016 17:40
	Sys Eff	Initial	16042215-013	1011	W	60507	132034	04/22/2016	04/25/2016 09:22	04/25/2016 18:22
	60507-1-BKS	BKS	60507-1-BKS	1011	W	60507	132034	--------	04/25/2016 09:22	04/25/2016 11:26
	60507-1-BLK	BLK	60507-1-BLK	1011	W	60507	132034	--------	04/25/2016 09:22	04/25/2016 12:49
	Sinclair DW S	MS	16041917-001 S	1011	W	60507	132034	04/16/2016	04/25/2016 09:22	04/25/2016 14:13
	Sinclair DW SD	MSD	16041917-001 SD	1011	W	60507	132034	04/16/2016	04/25/2016 09:22	04/25/2016 14:54
	MW 11	Initial	16042215-010	1011	W	60572	132147	04/22/2016	04/28/2016 08:15	04/28/2016 13:11
	MW 41	Initial	16042215-014	1011	W	60572	132147	04/22/2016	04/28/2016 08:15	04/28/2016 13:53
	MW 3	Initial	16042215-015	1011	W	60572	132147	04/22/2016	04/28/2016 08:15	04/28/2016 14:35
	MW 4	Initial	16042215-016	1011	W	60572	132147	04/22/2016	04/28/2016 08:15	04/28/2016 15:17
	MW 2	Initial	16042215-017	1011	W	60572	132147	04/22/2016	04/28/2016 08:15	04/28/2016 16:00
	MW 1	Initial	16042215-018	1011	W	60572	132147	04/22/2016	04/28/2016 08:15	04/28/2016 16:42
	MW 31R	Initial	16042215-019	1011	W	60572	132147	04/22/2016	04/28/2016 08:15	04/28/2016 17:25
	MW 17	Initial	16042215-020	1011	W	60572	132147	04/22/2016	04/28/2016 08:15	04/28/2016 18:08
	60572-1-BKS	BKS	60572-1-BKS	1011	W	60572	132147	--------	04/28/2016 08:15	04/28/2016 11:07
	60572-1-BLK	BLK	60572-1-BLK	1011	W	60572	132147	--------	04/28/2016 08:15	04/28/2016 12:30
	MW 31R S	MS	16042215-019 S	1011	W	60572	132147	04/22/2016	04/28/2016 08:15	04/28/2016 18:49
	MW 31R SD	MSD	16042215-019 SD	1011	W	60572	132147	04/22/2016	04/28/2016 08:15	04/28/2016 19:30
	MW 47	Initial	16042215-021	1011	W	60573	132148	04/22/2016	04/28/2016 20:54	04/29/2016 01:10
	MW 49	Initial	16042215-022	1011	W	60573	132148	04/22/2016	04/28/2016 20:54	04/29/2016 01:53
	MW 48	Initial	16042215-023	1011	W	60573	132148	04/22/2016	04/28/2016 20:54	04/29/2016 02:36
	MW 50	Initial	16042215-024	1011	W	60573	132148	04/22/2016	04/28/2016 20:54	04/29/2016 03:20
	MW 10R	Initial	16042215-025	1011	W	60573	132148	04/22/2016	04/28/2016 20:54	04/29/2016 04:03
	MW 43	Initial	16042215-026	1011	W	60573	132148	04/22/2016	04/28/2016 20:54	04/29/2016 04:46
	MW 42	Initial	16042215-027	1011	W	60573	132148	04/22/2016	04/28/2016 20:54	04/29/2016 05:29
	MW 45	Initial	16042215-028	1011	W	60573	132148	04/22/2016	04/28/2016 20:54	04/29/2016 06:11
	60573-1-BKS	BKS	60573-1-BKS	1011	W	60573	132148	--------	04/28/2016 20:54	04/28/2016 23:00
	60573-1-BLK	BLK	60573-1-BLK	1011	W	60573	132148	--------	04/28/2016 20:54	04/29/2016 00:27

Analytical Data Package Information Summary

Work Order(s): 16042215
Report Prepared For: UMM Shore Regional Health Chestertown, Cl
Project Name: Chester River Hospital Center-CRHC
Project Manager: Ken Hannon

Method	Client Sample Id	Analysis Type	Lab Sample Id	Analyst	Mtx	Prep Batch	Analytical Batch	Sampled	Prepared	Analyzed
SW-846 8260 B	MW 49 S	MS	16042215-022 S	1011	W	60573	132148	04/22/2016	04/28/2016 20:54	04/29/2016 06:53
	MW 49 SD	MSD	16042215-022 SD	1011	W	60573	132148	04/22/2016	04/28/2016 20:54	04/29/2016 07:36
	MW 46	Initial	16042215-029	1011	W	60580	132171	04/22/2016	04/29/2016 08:18	04/29/2016 11:51
	MW 5	Initial	16042215-030	1011	W	60580	132171	04/22/2016	04/29/2016 08:18	04/29/2016 12:34
	MW 37	Initial	16042215-031	1011	W	60580	132171	04/22/2016	04/29/2016 08:18	04/29/2016 13:17
	MW 44	Initial	16042215-032	1011	W	60580	132171	04/22/2016	04/29/2016 08:18	04/29/2016 13:59
	MW 13	Initial	16042215-033	1011	W	60580	132171	04/22/2016	04/29/2016 08:18	04/29/2016 14:56
	60580-1-BKS	BKS	60580-1-BKS	1011	W	60580	132171	--------	04/29/2016 08:18	04/29/2016 09:43
	60580-1-BLK	BLK	60580-1-BLK	1011	W	60580	132171	--------	04/29/2016 08:18	04/29/2016 11:08
	MW-68 S	MS	16042712-001 S	1011	W	60580	132171	04/27/2016	04/29/2016 08:18	04/29/2016 18:25
	MW-68 SD	MSD	16042712-001 SD	1011	W	60580	132171	04/27/2016	04/29/2016 08:18	04/29/2016 19:07

PHASE SEPARATION SCIENCE, INC.

QC Summary 16042215

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132106 Matrix: Ground Water Date Prep: 04/25/2016
PSS Sample ID: 16042215-001

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	61		37-136	%	04/26/16 17:00

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 132033 Matrix: Ground Water Date Prep: 04/25/2016
PSS Sample ID: 16042215-001

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	101		81-133	%	04/25/16 13:31
Dibromofluoromethane	99		84-110	%	04/25/16 13:31
Toluene-D8	99		94-109	%	04/25/16 13:31

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132106 Matrix: Ground Water Date Prep: 04/25/2016
PSS Sample ID: 16042215-002

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	76		37-136	%	04/26/16 17:25

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 132033 Matrix: Ground Water Date Prep: 04/25/2016
PSS Sample ID: 16042215-002

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	102		81-133	%	04/25/16 14:51
Dibromofluoromethane	98		84-110	%	04/25/16 14:51
Toluene-D8	101		94-109	%	04/25/16 14:51

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132106 Matrix: Ground Water Date Prep: 04/25/2016
PSS Sample ID: 16042215-003

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	62		37-136	%	04/26/16 17:25

PHASE SEPARATION SCIENCE, INC.

QC Summary 16042215

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 132033 Matrix: Ground Water Date Prep: 04/25/2016
PSS Sample ID: 16042215-003

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	103		81-133	%	04/25/16 16:10
Dibromofluoromethane	97		84-110	%	04/25/16 16:10
Toluene-D8	100		94-109	%	04/25/16 16:10

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132106 Matrix: Ground Water Date Prep: 04/25/2016
PSS Sample ID: 16042215-004

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	85		37-136	%	04/26/16 17:51

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 132033 Matrix: Ground Water Date Prep: 04/25/2016
PSS Sample ID: 16042215-004

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	100		81-133	%	04/25/16 16:50
Dibromofluoromethane	98		84-110	%	04/25/16 16:50
Toluene-D8	104		94-109	%	04/25/16 16:50

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132106 Matrix: Ground Water Date Prep: 04/25/2016
PSS Sample ID: 16042215-005

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	64		37-136	%	04/26/16 18:16

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 132033 Matrix: Ground Water Date Prep: 04/25/2016
PSS Sample ID: 16042215-005

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	98		81-133	%	04/25/16 17:30
Dibromofluoromethane	100		84-110	%	04/25/16 17:30
Toluene-D8	99		94-109	%	04/25/16 17:30

PHASE SEPARATION SCIENCE, INC.

QC Summary 16042215

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132106 Matrix: Ground Water Date Prep: 04/25/2016
PSS Sample ID: 16042215-006

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	73		37-136	%	04/26/16 18:41

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 132033 Matrix: Ground Water Date Prep: 04/25/2016
PSS Sample ID: 16042215-006

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	96		81-133	%	04/25/16 18:10
Dibromofluoromethane	97		84-110	%	04/25/16 18:10
Toluene-D8	100		94-109	%	04/25/16 18:10

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132106 Matrix: Ground Water Date Prep: 04/25/2016
PSS Sample ID: 16042215-007

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	59		37-136	%	04/26/16 19:07

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 132033 Matrix: Ground Water Date Prep: 04/25/2016
PSS Sample ID: 16042215-007

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	98		81-133	%	04/25/16 18:49
Dibromofluoromethane	99		84-110	%	04/25/16 18:49
Toluene-D8	99		94-109	%	04/25/16 18:49

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132106 Matrix: Ground Water Date Prep: 04/25/2016
PSS Sample ID: 16042215-008

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	80		37-136	%	04/26/16 19:32

PHASE SEPARATION SCIENCE, INC.

QC Summary 16042215

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 132033 Matrix: Ground Water Date Prep: 04/25/2016
PSS Sample ID: 16042215-008

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	98		81-133	%	04/25/16 15:31
Dibromofluoromethane	98		84-110	%	04/25/16 15:31
Toluene-D8	100		94-109	%	04/25/16 15:31

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132106 Matrix: Ground Water Date Prep: 04/25/2016
PSS Sample ID: 16042215-009

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	48		37-136	%	04/26/16 19:57

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 132034 Matrix: Ground Water Date Prep: 04/25/2016
PSS Sample ID: 16042215-009

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	93		81-133	%	04/25/16 16:17
Dibromofluoromethane	106		84-110	%	04/25/16 16:17
Toluene-D8	105		94-109	%	04/25/16 16:17

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132106 Matrix: Ground Water Date Prep: 04/25/2016
PSS Sample ID: 16042215-010

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	71		37-136	%	04/26/16 20:22

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 132147 Matrix: Ground Water Date Prep: 04/28/2016
PSS Sample ID: 16042215-010

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	92		81-133	%	04/28/16 13:11
Dibromofluoromethane	109		84-110	%	04/28/16 13:11
Toluene-D8	103		94-109	%	04/28/16 13:11

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QC Summary 16042215

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132106 Matrix: Ground Water Date Prep: 04/25/2016
PSS Sample ID: 16042215-011

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	68		37-136	%	04/26/16 21:13

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 132034 Matrix: Ground Water Date Prep: 04/25/2016
PSS Sample ID: 16042215-011

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	95		81-133	%	04/25/16 16:59
Dibromofluoromethane	106		84-110	%	04/25/16 16:59
Toluene-D8	105		94-109	%	04/25/16 16:59

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132106 Matrix: Ground Water Date Prep: 04/25/2016
PSS Sample ID: 16042215-012

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	71		37-136	%	04/26/16 21:38

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 132034 Matrix: Ground Water Date Prep: 04/25/2016
PSS Sample ID: 16042215-012

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	95		81-133	%	04/25/16 17:40
Dibromofluoromethane	104		84-110	%	04/25/16 17:40
Toluene-D8	104		94-109	%	04/25/16 17:40

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132106 Matrix: Ground Water Date Prep: 04/25/2016
PSS Sample ID: 16042215-013

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	59		37-136	%	04/26/16 22:28

PHASE SEPARATION SCIENCE, INC.

QC Summary 16042215

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 132034 Matrix: Ground Water Date Prep: 04/25/2016
PSS Sample ID: 16042215-013

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	94		81-133	%	04/25/16 18:22
Dibromofluoromethane	104		84-110	%	04/25/16 18:22
Toluene-D8	104		94-109	%	04/25/16 18:22

Analytical Method: SW-846 8015C Prep Method: SW5030B
Seq Number: 132196 Matrix: Ground Water Date Prep: 04/29/2016
PSS Sample ID: 16042215-013

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	95		65-111	%	05/02/16 11:06

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132106 Matrix: Ground Water Date Prep: 04/25/2016
PSS Sample ID: 16042215-014

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	68		37-136	%	04/26/16 22:53

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 132147 Matrix: Ground Water Date Prep: 04/28/2016
PSS Sample ID: 16042215-014

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	92		81-133	%	04/28/16 13:53
Dibromofluoromethane	110		84-110	%	04/28/16 13:53
Toluene-D8	104		94-109	%	04/28/16 13:53

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132106 Matrix: Ground Water Date Prep: 04/25/2016
PSS Sample ID: 16042215-015

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	67		37-136	%	04/26/16 23:44

PHASE SEPARATION SCIENCE, INC.

QC Summary 16042215

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 132147 Matrix: Ground Water Date Prep: 04/28/2016
PSS Sample ID: 16042215-015

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	90		81-133	%	04/28/16 14:35
Dibromofluoromethane	109		84-110	%	04/28/16 14:35
Toluene-D8	106		94-109	%	04/28/16 14:35

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132091 Matrix: Ground Water Date Prep: 04/26/2016
PSS Sample ID: 16042215-016

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	70		37-136	%	04/26/16 18:09

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 132147 Matrix: Ground Water Date Prep: 04/28/2016
PSS Sample ID: 16042215-016

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	94		81-133	%	04/28/16 15:17
Dibromofluoromethane	108		84-110	%	04/28/16 15:17
Toluene-D8	104		94-109	%	04/28/16 15:17

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132091 Matrix: Ground Water Date Prep: 04/26/2016
PSS Sample ID: 16042215-017

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	75		37-136	%	04/26/16 18:56

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 132147 Matrix: Ground Water Date Prep: 04/28/2016
PSS Sample ID: 16042215-017

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	92		81-133	%	04/28/16 16:00
Dibromofluoromethane	107		84-110	%	04/28/16 16:00
Toluene-D8	105		94-109	%	04/28/16 16:00

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QC Summary 16042215

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132091 Matrix: Ground Water Date Prep: 04/26/2016
PSS Sample ID: 16042215-018

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	75		37-136	%	04/26/16 19:44

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 132147 Matrix: Ground Water Date Prep: 04/28/2016
PSS Sample ID: 16042215-018

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	92		81-133	%	04/28/16 16:42
Dibromofluoromethane	107		84-110	%	04/28/16 16:42
Toluene-D8	104		94-109	%	04/28/16 16:42

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132091 Matrix: Ground Water Date Prep: 04/26/2016
PSS Sample ID: 16042215-019

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	73		37-136	%	04/26/16 20:31

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 132147 Matrix: Ground Water Date Prep: 04/28/2016
PSS Sample ID: 16042215-019

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	94		81-133	%	04/28/16 17:25
Dibromofluoromethane	105		84-110	%	04/28/16 17:25
Toluene-D8	105		94-109	%	04/28/16 17:25

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132091 Matrix: Ground Water Date Prep: 04/26/2016
PSS Sample ID: 16042215-020

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	78		37-136	%	04/26/16 20:31

PHASE SEPARATION SCIENCE, INC.

QC Summary 16042215

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 132147 Matrix: Ground Water Date Prep: 04/28/2016
PSS Sample ID: 16042215-020

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	92		81-133	%	04/28/16 18:08
Dibromofluoromethane	107		84-110	%	04/28/16 18:08
Toluene-D8	105		94-109	%	04/28/16 18:08

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132091 Matrix: Ground Water Date Prep: 04/26/2016
PSS Sample ID: 16042215-021

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	80		37-136	%	04/26/16 21:19

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 132148 Matrix: Ground Water Date Prep: 04/28/2016
PSS Sample ID: 16042215-021

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	92		81-133	%	04/29/16 01:10
Dibromofluoromethane	108		84-110	%	04/29/16 01:10
Toluene-D8	107		94-109	%	04/29/16 01:10

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132091 Matrix: Ground Water Date Prep: 04/26/2016
PSS Sample ID: 16042215-022

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	80		37-136	%	04/26/16 21:19

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 132148 Matrix: Ground Water Date Prep: 04/28/2016
PSS Sample ID: 16042215-022

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	92		81-133	%	04/29/16 01:53
Dibromofluoromethane	109		84-110	%	04/29/16 01:53
Toluene-D8	106		94-109	%	04/29/16 01:53

PHASE SEPARATION SCIENCE, INC.

QC Summary 16042215

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132091 Matrix: Ground Water Date Prep: 04/26/2016
PSS Sample ID: 16042215-023

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	80		37-136	%	04/26/16 22:07

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 132148 Matrix: Ground Water Date Prep: 04/28/2016
PSS Sample ID: 16042215-023

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	95		81-133	%	04/29/16 02:36
Dibromofluoromethane	108		84-110	%	04/29/16 02:36
Toluene-D8	107		94-109	%	04/29/16 02:36

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132091 Matrix: Ground Water Date Prep: 04/26/2016
PSS Sample ID: 16042215-024

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	73		37-136	%	04/26/16 22:07

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 132148 Matrix: Ground Water Date Prep: 04/28/2016
PSS Sample ID: 16042215-024

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	93		81-133	%	04/29/16 03:20
Dibromofluoromethane	110		84-110	%	04/29/16 03:20
Toluene-D8	106		94-109	%	04/29/16 03:20

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132091 Matrix: Ground Water Date Prep: 04/26/2016
PSS Sample ID: 16042215-025

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	81		37-136	%	04/26/16 22:54

PHASE SEPARATION SCIENCE, INC.

QC Summary 16042215

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 132148 Matrix: Ground Water Date Prep: 04/28/2016
PSS Sample ID: 16042215-025

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	94		81-133	%	04/29/16 04:03
Dibromofluoromethane	110		84-110	%	04/29/16 04:03
Toluene-D8	106		94-109	%	04/29/16 04:03

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132091 Matrix: Ground Water Date Prep: 04/26/2016
PSS Sample ID: 16042215-026

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	77		37-136	%	04/26/16 22:54

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 132148 Matrix: Ground Water Date Prep: 04/28/2016
PSS Sample ID: 16042215-026

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	92		81-133	%	04/29/16 04:46
Dibromofluoromethane	112	*	84-110	%	04/29/16 04:46
Toluene-D8	108		94-109	%	04/29/16 04:46

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132091 Matrix: Ground Water Date Prep: 04/26/2016
PSS Sample ID: 16042215-027

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	71		37-136	%	04/26/16 23:42

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 132148 Matrix: Ground Water Date Prep: 04/28/2016
PSS Sample ID: 16042215-027

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	93		81-133	%	04/29/16 05:29
Dibromofluoromethane	109		84-110	%	04/29/16 05:29
Toluene-D8	108		94-109	%	04/29/16 05:29

PHASE SEPARATION SCIENCE, INC.

QC Summary 16042215

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132091 Matrix: Ground Water Date Prep: 04/26/2016
PSS Sample ID: 16042215-028

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	80		37-136	%	04/26/16 23:42

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 132148 Matrix: Ground Water Date Prep: 04/28/2016
PSS Sample ID: 16042215-028

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	94		81-133	%	04/29/16 06:11
Dibromofluoromethane	109		84-110	%	04/29/16 06:11
Toluene-D8	107		94-109	%	04/29/16 06:11

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132091 Matrix: Ground Water Date Prep: 04/26/2016
PSS Sample ID: 16042215-029

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	67		37-136	%	04/27/16 00:53

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 132171 Matrix: Ground Water Date Prep: 04/29/2016
PSS Sample ID: 16042215-029

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	93		81-133	%	04/29/16 11:51
Dibromofluoromethane	110		84-110	%	04/29/16 11:51
Toluene-D8	108		94-109	%	04/29/16 11:51

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132091 Matrix: Ground Water Date Prep: 04/26/2016
PSS Sample ID: 16042215-030

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	76		37-136	%	04/27/16 00:53

PHASE SEPARATION SCIENCE, INC.

QC Summary 16042215

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 132171 Matrix: Ground Water Date Prep: 04/29/2016
PSS Sample ID: 16042215-030

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	93		81-133	%	04/29/16 12:34
Dibromofluoromethane	109		84-110	%	04/29/16 12:34
Toluene-D8	110	*	94-109	%	04/29/16 12:34

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132091 Matrix: Ground Water Date Prep: 04/26/2016
PSS Sample ID: 16042215-031

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	79		37-136	%	04/27/16 04:50

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 132171 Matrix: Ground Water Date Prep: 04/29/2016
PSS Sample ID: 16042215-031

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	94		81-133	%	04/29/16 13:17
Dibromofluoromethane	112	*	84-110	%	04/29/16 13:17
Toluene-D8	109		94-109	%	04/29/16 13:17

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132091 Matrix: Ground Water Date Prep: 04/26/2016
PSS Sample ID: 16042215-032

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	90		37-136	%	04/27/16 04:50

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 132171 Matrix: Ground Water Date Prep: 04/29/2016
PSS Sample ID: 16042215-032

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	93		81-133	%	04/29/16 13:59
Dibromofluoromethane	113	*	84-110	%	04/29/16 13:59
Toluene-D8	110	*	94-109	%	04/29/16 13:59

PHASE SEPARATION SCIENCE, INC.

QC Summary 16042215

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132091 Matrix: Ground Water Date Prep: 04/26/2016
PSS Sample ID: 16042215-033

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	75		37-136	%	04/27/16 12:42

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 132171 Matrix: Ground Water Date Prep: 04/29/2016
PSS Sample ID: 16042215-033

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	93		81-133	%	04/29/16 14:56
Dibromofluoromethane	107		84-110	%	04/29/16 14:56
Toluene-D8	110	*	94-109	%	04/29/16 14:56

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 16042215

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132106 Matrix: Water Date Prep: 04/25/16
MB Sample Id: 60489-1-BLK LCS Sample Id: 60489-1-BKS LCSD Sample Id: 60489-1-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	0.8732	87	0.7623	76	61-119	14	20	mg/L	04/26/16 16:35	

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	LCSD Result	LCSD Flag	Limits	Units	Analysis Date
o-Terphenyl	60		81		69		37-136	%	04/26/16 16:35

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132091 Matrix: Water Date Prep: 04/26/16
MB Sample Id: 60498-1-BLK LCS Sample Id: 60498-1-BKS LCSD Sample Id: 60498-1-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	0.9972	100	0.8100	81	61-119	21	20	mg/L	04/26/16 18:32	F

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	LCSD Result	LCSD Flag	Limits	Units	Analysis Date
o-Terphenyl	77		87		70		37-136	%	04/26/16 18:32

Analytical Method: SW-846 8015C Prep Method: SW5030B
Seq Number: 132196 Matrix: Water Date Prep: 04/29/16
MB Sample Id: 60598-2-BLK LCS Sample Id: 60598-2-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
TPH-GRO (Gasoline Range Organics	<100	5000	5451	109	61-138	ug/L	04/29/16 17:15	

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	93		111		65-111	%	04/29/16 17:15

PHASE SEPARATION SCIENCE, INC.

QC Summary 16042215

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 132033 Matrix: Water Date Prep: 04/25/16
MB Sample Id: 60506-1-BLK LCS Sample Id: 60506-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Acetone	<10.00	50.00	46.71	93	53-146	ug/L	04/25/16 10:53	
tert-Amyl alcohol	<20.00	50.00	64.43	129	27-139	ug/L	04/25/16 10:53	
tert-Amyl ethyl ether	<10.00	50.00	52.97	106	60-121	ug/L	04/25/16 10:53	
tert-Amyl methyl ether	<10.00	50.00	52.43	105	61-129	ug/L	04/25/16 10:53	
Benzene	<1.000	50.00	54.49	109	77-122	ug/L	04/25/16 10:53	
Bromochloromethane	<1.000	50.00	55.42	111	71-122	ug/L	04/25/16 10:53	
Bromodichloromethane	<1.000	50.00	54.53	109	76-122	ug/L	04/25/16 10:53	
Bromoform	<5.000	50.00	52.00	104	69-115	ug/L	04/25/16 10:53	
Bromomethane	<1.000	50.00	50.20	100	40-147	ug/L	04/25/16 10:53	
tert-Butyl alcohol	<20.00	50.00	54.59	109	15-150	ug/L	04/25/16 10:53	
2-Butanone (MEK)	<10.00	50.00	47.56	95	56-133	ug/L	04/25/16 10:53	
tert-Butyl ethyl ether	<10.00	50.00	47.91	96	62-137	ug/L	04/25/16 10:53	
Carbon Disulfide	<10.00	50.00	54.50	109	62-134	ug/L	04/25/16 10:53	
Carbon Tetrachloride	<1.000	50.00	49.14	98	74-127	ug/L	04/25/16 10:53	
Chlorobenzene	<1.000	50.00	53.16	106	76-116	ug/L	04/25/16 10:53	
Chloroethane	<1.000	50.00	46.64	93	59-132	ug/L	04/25/16 10:53	
Chloroform	<1.000	50.00	51.95	104	71-118	ug/L	04/25/16 10:53	
Chloromethane	<1.000	50.00	46.18	92	62-131	ug/L	04/25/16 10:53	
Cyclohexane	<10.00	50.00	43.33	87	46-150	ug/L	04/25/16 10:53	
1,2-Dibromo-3-Chloropropane	<10.00	50.00	51.98	104	59-135	ug/L	04/25/16 10:53	
Dibromochloromethane	<1.000	50.00	53.26	107	75-114	ug/L	04/25/16 10:53	
1,2-Dibromoethane (EDB)	<1.000	50.00	53.27	107	78-121	ug/L	04/25/16 10:53	
1,2-Dichlorobenzene	<1.000	50.00	53.62	107	80-122	ug/L	04/25/16 10:53	
1,3-Dichlorobenzene	<1.000	50.00	53.51	107	80-122	ug/L	04/25/16 10:53	
1,4-Dichlorobenzene	<1.000	50.00	52.88	106	77-118	ug/L	04/25/16 10:53	
Dichlorodifluoromethane	<1.000	50.00	51.46	103	54-139	ug/L	04/25/16 10:53	
1,1-Dichloroethane	<1.000	50.00	53.16	106	51-136	ug/L	04/25/16 10:53	
1,2-Dichloroethane	<1.000	50.00	52.08	104	64-130	ug/L	04/25/16 10:53	
1,1-Dichloroethene	<1.000	50.00	51.89	104	59-123	ug/L	04/25/16 10:53	
cis-1,2-Dichloroethene	<1.000	50.00	54.13	108	77-119	ug/L	04/25/16 10:53	
1,2-Dichloropropane	<1.000	50.00	56.56	113	75-125	ug/L	04/25/16 10:53	
cis-1,3-Dichloropropene	<1.000	50.00	58.39	117	74-123	ug/L	04/25/16 10:53	
trans-1,3-Dichloropropene	<1.000	50.00	58.78	118	73-116	ug/L	04/25/16 10:53	H
trans-1,2-Dichloroethene	<1.000	50.00	51.91	104	58-134	ug/L	04/25/16 10:53	
Diisopropyl ether	<10.00	50.00	54.77	110	48-146	ug/L	04/25/16 10:53	
Ethylbenzene	<1.000	50.00	54.77	110	79-122	ug/L	04/25/16 10:53	
2-Hexanone	<10.00	50.00	48.72	97	56-134	ug/L	04/25/16 10:53	
Isopropylbenzene	<1.000	50.00	55.14	110	80-128	ug/L	04/25/16 10:53	
Methyl Acetate	<10.00	50.00	52.66	105	47-145	ug/L	04/25/16 10:53	
Methylcyclohexane	<10.00	50.00	52.25	105	61-155	ug/L	04/25/16 10:53	
Methylene Chloride	<1.000	50.00	53.43	107	61-126	ug/L	04/25/16 10:53	
4-Methyl-2-Pentanone	<5.000	50.00	46.09	92	45-145	ug/L	04/25/16 10:53	
Methyl-t-butyl ether	<1.000	50.00	53.87	108	30-168	ug/L	04/25/16 10:53	
Naphthalene	<1.000	50.00	46.60	93	46-154	ug/L	04/25/16 10:53	
Styrene	<1.000	50.00	49.45	99	73-118	ug/L	04/25/16 10:53	
1,1,2,2-Tetrachloroethane	<1.000	50.00	52.11	104	71-126	ug/L	04/25/16 10:53	
Tetrachloroethene	<1.000	50.00	55.33	111	78-113	ug/L	04/25/16 10:53	
Toluene	<1.000	50.00	57.13	114	77-123	ug/L	04/25/16 10:53	
1,2,3-Trichlorobenzene	<1.000	50.00	49.44	99	66-140	ug/L	04/25/16 10:53	
1,2,4-Trichlorobenzene	<1.000	50.00	55.64	111	72-143	ug/L	04/25/16 10:53	
1,1,1-Trichloroethane	<1.000	50.00	47.07	94	66-133	ug/L	04/25/16 10:53	

PHASE SEPARATION SCIENCE, INC.

QC Summary 16042215

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8260 B

Prep Method: SW5030B

Seq Number: 132033

Matrix: Water

Date Prep: 04/25/16

MB Sample Id: 60506-1-BLK

LCS Sample Id: 60506-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
1,1,2-Trichloroethane	<1.000	50.00	57.06	114	72-128	ug/L	04/25/16 10:53	
Trichloroethene	<1.000	50.00	54.18	108	72-127	ug/L	04/25/16 10:53	
Trichlorofluoromethane	<5.000	50.00	46.99	94	45-130	ug/L	04/25/16 10:53	
1,1,2-Trichloro-1,2,2-Trifluoroethane	<1.000	50.00	39.75	80	56-126	ug/L	04/25/16 10:53	
Vinyl Chloride	<1.000	50.00	47.74	95	64-132	ug/L	04/25/16 10:53	
m,p-Xylenes	<2.000	100	111.1	111	78-119	ug/L	04/25/16 10:53	
o-Xylene	<1.000	50.00	54.84	110	79-123	ug/L	04/25/16 10:53	

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	98		99		81-133	%	04/25/16 10:53
Dibromofluoromethane	99		98		84-110	%	04/25/16 10:53
Toluene-D8	99		104		94-109	%	04/25/16 10:53

PHASE SEPARATION SCIENCE, INC.

QC Summary 16042215

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 132034 Matrix: Water Date Prep: 04/25/16
MB Sample Id: 60507-1-BLK LCS Sample Id: 60507-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Acetone	<10.00	50.00	45.89	92	53-146	ug/L	04/25/16 11:26	
tert-Amyl alcohol	<20.00	50.00	58.29	117	27-139	ug/L	04/25/16 11:26	
tert-Amyl ethyl ether	<10.00	50.00	54.27	109	60-121	ug/L	04/25/16 11:26	
tert-Amyl methyl ether	<10.00	50.00	57.81	116	61-129	ug/L	04/25/16 11:26	
Benzene	<1.000	50.00	54.38	109	77-122	ug/L	04/25/16 11:26	
Bromochloromethane	<1.000	50.00	61.86	124	71-122	ug/L	04/25/16 11:26	H
Bromodichloromethane	<1.000	50.00	60.94	122	76-122	ug/L	04/25/16 11:26	
Bromoform	<5.000	50.00	60.32	121	69-115	ug/L	04/25/16 11:26	H
Bromomethane	<1.000	50.00	43.96	88	40-147	ug/L	04/25/16 11:26	
tert-Butyl alcohol	<20.00	50.00	60.98	122	15-150	ug/L	04/25/16 11:26	
2-Butanone (MEK)	<10.00	50.00	51.66	103	56-133	ug/L	04/25/16 11:26	
tert-Butyl ethyl ether	<10.00	50.00	57.16	114	62-137	ug/L	04/25/16 11:26	
Carbon Disulfide	<10.00	50.00	54.72	109	62-134	ug/L	04/25/16 11:26	
Carbon Tetrachloride	<1.000	50.00	61.88	124	74-127	ug/L	04/25/16 11:26	
Chlorobenzene	<1.000	50.00	56.35	113	76-116	ug/L	04/25/16 11:26	
Chloroethane	<1.000	50.00	52.92	106	59-132	ug/L	04/25/16 11:26	
Chloroform	<1.000	50.00	58.75	118	71-118	ug/L	04/25/16 11:26	
Chloromethane	<1.000	50.00	43.23	86	62-131	ug/L	04/25/16 11:26	
Cyclohexane	<10.00	50.00	49.81	100	46-150	ug/L	04/25/16 11:26	
1,2-Dibromo-3-Chloropropane	<10.00	50.00	53.95	108	59-135	ug/L	04/25/16 11:26	
Dibromochloromethane	<1.000	50.00	60.22	120	75-114	ug/L	04/25/16 11:26	H
1,2-Dibromoethane (EDB)	<1.000	50.00	55.85	112	78-121	ug/L	04/25/16 11:26	
1,2-Dichlorobenzene	<1.000	50.00	56.87	114	80-122	ug/L	04/25/16 11:26	
1,3-Dichlorobenzene	<1.000	50.00	57.42	115	80-122	ug/L	04/25/16 11:26	
1,4-Dichlorobenzene	<1.000	50.00	57.28	115	77-118	ug/L	04/25/16 11:26	
Dichlorodifluoromethane	<1.000	50.00	65.25	131	54-139	ug/L	04/25/16 11:26	
1,1-Dichloroethane	<1.000	50.00	54.24	108	51-136	ug/L	04/25/16 11:26	
1,2-Dichloroethane	<1.000	50.00	63.61	127	64-130	ug/L	04/25/16 11:26	
1,1-Dichloroethene	<1.000	50.00	58.18	116	59-123	ug/L	04/25/16 11:26	
cis-1,2-Dichloroethene	<1.000	50.00	57.10	114	77-119	ug/L	04/25/16 11:26	
1,2-Dichloropropane	<1.000	50.00	49.87	100	75-125	ug/L	04/25/16 11:26	
cis-1,3-Dichloropropene	<1.000	50.00	58.16	116	74-123	ug/L	04/25/16 11:26	
trans-1,3-Dichloropropene	<1.000	50.00	60.04	120	73-116	ug/L	04/25/16 11:26	H
trans-1,2-Dichloroethene	<1.000	50.00	58.39	117	58-134	ug/L	04/25/16 11:26	
Diisopropyl ether	<10.00	50.00	49.51	99	48-146	ug/L	04/25/16 11:26	
Ethylbenzene	<1.000	50.00	55.23	110	79-122	ug/L	04/25/16 11:26	
2-Hexanone	<10.00	50.00	46.64	93	56-134	ug/L	04/25/16 11:26	
Isopropylbenzene	<1.000	50.00	55.46	111	80-128	ug/L	04/25/16 11:26	
Methyl Acetate	<10.00	50.00	54.27	109	47-145	ug/L	04/25/16 11:26	
Methylcyclohexane	<10.00	50.00	56.51	113	61-155	ug/L	04/25/16 11:26	
Methylene Chloride	<1.000	50.00	56.73	113	61-126	ug/L	04/25/16 11:26	
4-Methyl-2-Pentanone	<5.000	50.00	57.49	115	45-145	ug/L	04/25/16 11:26	
Methyl-t-butyl ether	<1.000	50.00	61.11	122	30-168	ug/L	04/25/16 11:26	
Naphthalene	<1.000	50.00	48.31	97	46-154	ug/L	04/25/16 11:26	
Styrene	<1.000	50.00	57.42	115	73-118	ug/L	04/25/16 11:26	
1,1,2,2-Tetrachloroethane	<1.000	50.00	47.16	94	71-126	ug/L	04/25/16 11:26	
Tetrachloroethene	<1.000	50.00	64.59	129	78-113	ug/L	04/25/16 11:26	H
Toluene	<1.000	50.00	56.94	114	77-123	ug/L	04/25/16 11:26	
1,2,3-Trichlorobenzene	<1.000	50.00	60.46	121	66-140	ug/L	04/25/16 11:26	
1,2,4-Trichlorobenzene	<1.000	50.00	61.46	123	72-143	ug/L	04/25/16 11:26	
1,1,1-Trichloroethane	<1.000	50.00	65.82	132	66-133	ug/L	04/25/16 11:26	

PHASE SEPARATION SCIENCE, INC.

QC Summary 16042215

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8260 B

Prep Method: SW5030B

Seq Number: 132034

Matrix: Water

Date Prep: 04/25/16

MB Sample Id: 60507-1-BLK

LCS Sample Id: 60507-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
1,1,2-Trichloroethane	<1.000	50.00	52.90	106	72-128	ug/L	04/25/16 11:26	
Trichloroethene	<1.000	50.00	59.36	119	72-127	ug/L	04/25/16 11:26	
Trichlorofluoromethane	<5.000	50.00	63.29	127	45-130	ug/L	04/25/16 11:26	
1,1,2-Trichloro-1,2,2-Trifluoroethane	<1.000	50.00	58.31	117	56-126	ug/L	04/25/16 11:26	
Vinyl Chloride	<1.000	50.00	55.48	111	64-132	ug/L	04/25/16 11:26	
m,p-Xylenes	<2.000	100	113	113	78-119	ug/L	04/25/16 11:26	
o-Xylene	<1.000	50.00	56.13	112	79-123	ug/L	04/25/16 11:26	

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	93		93		81-133	%	04/25/16 11:26
Dibromofluoromethane	110		107		84-110	%	04/25/16 11:26
Toluene-D8	104		100		94-109	%	04/25/16 11:26

PHASE SEPARATION SCIENCE, INC.

QC Summary 16042215

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 132147 Matrix: Water Date Prep: 04/28/16
MB Sample Id: 60572-1-BLK LCS Sample Id: 60572-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Acetone	<10.00	50.00	42.98	86	53-146	ug/L	04/28/16 11:07	
tert-Amyl alcohol	<20.00	50.00	43.08	86	27-139	ug/L	04/28/16 11:07	
tert-Amyl ethyl ether	<10.00	50.00	42.32	85	60-121	ug/L	04/28/16 11:07	
tert-Amyl methyl ether	<10.00	50.00	45.11	90	61-129	ug/L	04/28/16 11:07	
Benzene	<1.000	50.00	44.13	88	77-122	ug/L	04/28/16 11:07	
Bromochloromethane	<1.000	50.00	50.83	102	71-122	ug/L	04/28/16 11:07	
Bromodichloromethane	<1.000	50.00	49.77	100	76-122	ug/L	04/28/16 11:07	
Bromoform	<5.000	50.00	49.96	100	69-115	ug/L	04/28/16 11:07	
Bromomethane	<1.000	50.00	39.48	79	40-147	ug/L	04/28/16 11:07	
tert-Butyl alcohol	<20.00	50.00	50.76	102	15-150	ug/L	04/28/16 11:07	
2-Butanone (MEK)	<10.00	50.00	42.30	85	56-133	ug/L	04/28/16 11:07	
tert-Butyl ethyl ether	<10.00	50.00	45.45	91	62-137	ug/L	04/28/16 11:07	
Carbon Disulfide	<10.00	50.00	43.97	88	62-134	ug/L	04/28/16 11:07	
Carbon Tetrachloride	<1.000	50.00	48.73	97	74-127	ug/L	04/28/16 11:07	
Chlorobenzene	<1.000	50.00	46.32	93	76-116	ug/L	04/28/16 11:07	
Chloroethane	<1.000	50.00	44.88	90	59-132	ug/L	04/28/16 11:07	
Chloroform	<1.000	50.00	48.32	97	71-118	ug/L	04/28/16 11:07	
Chloromethane	<1.000	50.00	39.19	78	62-131	ug/L	04/28/16 11:07	
Cyclohexane	<10.00	50.00	41.26	83	46-150	ug/L	04/28/16 11:07	
1,2-Dibromo-3-Chloropropane	<10.00	50.00	44.79	90	59-135	ug/L	04/28/16 11:07	
Dibromochloromethane	<1.000	50.00	48.59	97	75-114	ug/L	04/28/16 11:07	
1,2-Dibromoethane (EDB)	<1.000	50.00	46.08	92	78-121	ug/L	04/28/16 11:07	
1,2-Dichlorobenzene	<1.000	50.00	46.30	93	80-122	ug/L	04/28/16 11:07	
1,3-Dichlorobenzene	<1.000	50.00	46.51	93	80-122	ug/L	04/28/16 11:07	
1,4-Dichlorobenzene	<1.000	50.00	46.28	93	77-118	ug/L	04/28/16 11:07	
Dichlorodifluoromethane	<1.000	50.00	50.70	101	54-139	ug/L	04/28/16 11:07	
1,1-Dichloroethane	<1.000	50.00	44.20	88	51-136	ug/L	04/28/16 11:07	
1,2-Dichloroethane	<1.000	50.00	52.69	105	64-130	ug/L	04/28/16 11:07	
1,1-Dichloroethene	<1.000	50.00	47.55	95	59-123	ug/L	04/28/16 11:07	
cis-1,2-Dichloroethene	<1.000	50.00	46.93	94	77-119	ug/L	04/28/16 11:07	
1,2-Dichloropropane	<1.000	50.00	41.13	82	75-125	ug/L	04/28/16 11:07	
cis-1,3-Dichloropropene	<1.000	50.00	46.63	93	74-123	ug/L	04/28/16 11:07	
trans-1,3-Dichloropropene	<1.000	50.00	49.36	99	73-116	ug/L	04/28/16 11:07	
trans-1,2-Dichloroethene	<1.000	50.00	46.98	94	58-134	ug/L	04/28/16 11:07	
Diisopropyl ether	<10.00	50.00	40.58	81	48-146	ug/L	04/28/16 11:07	
Ethylbenzene	<1.000	50.00	45.13	90	79-122	ug/L	04/28/16 11:07	
2-Hexanone	<10.00	50.00	39.69	79	56-134	ug/L	04/28/16 11:07	
Isopropylbenzene	<1.000	50.00	44.79	90	80-128	ug/L	04/28/16 11:07	
Methyl Acetate	<10.00	50.00	44.74	89	47-145	ug/L	04/28/16 11:07	
Methylcyclohexane	<10.00	50.00	46.55	93	61-155	ug/L	04/28/16 11:07	
Methylene Chloride	<1.000	50.00	46.68	93	61-126	ug/L	04/28/16 11:07	
4-Methyl-2-Pentanone	<5.000	50.00	48.36	97	45-145	ug/L	04/28/16 11:07	
Methyl-t-butyl ether	<1.000	50.00	49.17	98	30-168	ug/L	04/28/16 11:07	
Naphthalene	<1.000	50.00	38.79	78	46-154	ug/L	04/28/16 11:07	
Styrene	<1.000	50.00	45.19	90	73-118	ug/L	04/28/16 11:07	
1,1,2,2-Tetrachloroethane	<1.000	50.00	39.55	79	71-126	ug/L	04/28/16 11:07	
Tetrachloroethene	<1.000	50.00	53.63	107	78-113	ug/L	04/28/16 11:07	
Toluene	<1.000	50.00	47.34	95	77-123	ug/L	04/28/16 11:07	
1,2,3-Trichlorobenzene	<1.000	50.00	49.70	99	66-140	ug/L	04/28/16 11:07	
1,2,4-Trichlorobenzene	<1.000	50.00	50.54	101	72-143	ug/L	04/28/16 11:07	
1,1,1-Trichloroethane	<1.000	50.00	53.69	107	66-133	ug/L	04/28/16 11:07	

PHASE SEPARATION SCIENCE, INC.

QC Summary 16042215

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8260 B

Prep Method: SW5030B

Seq Number: 132147

Matrix: Water

Date Prep: 04/28/16

MB Sample Id: 60572-1-BLK

LCS Sample Id: 60572-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
1,1,2-Trichloroethane	<1.000	50.00	44.09	88	72-128	ug/L	04/28/16 11:07	
Trichloroethene	<1.000	50.00	48.06	96	72-127	ug/L	04/28/16 11:07	
Trichlorofluoromethane	<5.000	50.00	51.65	103	45-130	ug/L	04/28/16 11:07	
1,1,2-Trichloro-1,2,2-Trifluoroethane	<1.000	50.00	49.33	99	56-126	ug/L	04/28/16 11:07	
Vinyl Chloride	<1.000	50.00	48.33	97	64-132	ug/L	04/28/16 11:07	
m,p-Xylenes	<2.000	100	93.00	93	78-119	ug/L	04/28/16 11:07	
o-Xylene	<1.000	50.00	45.71	91	79-123	ug/L	04/28/16 11:07	

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	93		92		81-133	%	04/28/16 11:07
Dibromofluoromethane	107		108		84-110	%	04/28/16 11:07
Toluene-D8	103		101		94-109	%	04/28/16 11:07

PHASE SEPARATION SCIENCE, INC.

QC Summary 16042215

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 132148 Matrix: Water Date Prep: 04/28/16
MB Sample Id: 60573-1-BLK LCS Sample Id: 60573-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Acetone	<10.00	50.00	48.44	97	53-146	ug/L	04/28/16 23:00	
tert-Amyl alcohol	<20.00	50.00	48.02	96	27-139	ug/L	04/28/16 23:00	
tert-Amyl ethyl ether	<10.00	50.00	49.19	98	60-121	ug/L	04/28/16 23:00	
tert-Amyl methyl ether	<10.00	50.00	51.07	102	61-129	ug/L	04/28/16 23:00	
Benzene	<1.000	50.00	52.40	105	77-122	ug/L	04/28/16 23:00	
Bromochloromethane	<1.000	50.00	58.20	116	71-122	ug/L	04/28/16 23:00	
Bromodichloromethane	<1.000	50.00	56.74	113	76-122	ug/L	04/28/16 23:00	
Bromoform	<5.000	50.00	53.45	107	69-115	ug/L	04/28/16 23:00	
Bromomethane	<1.000	50.00	44.49	89	40-147	ug/L	04/28/16 23:00	
tert-Butyl alcohol	<20.00	50.00	56.04	112	15-150	ug/L	04/28/16 23:00	
2-Butanone (MEK)	<10.00	50.00	49.80	100	56-133	ug/L	04/28/16 23:00	
tert-Butyl ethyl ether	<10.00	50.00	53.13	106	62-137	ug/L	04/28/16 23:00	
Carbon Disulfide	<10.00	50.00	52.33	105	62-134	ug/L	04/28/16 23:00	
Carbon Tetrachloride	<1.000	50.00	53.34	107	74-127	ug/L	04/28/16 23:00	
Chlorobenzene	<1.000	50.00	50.26	101	76-116	ug/L	04/28/16 23:00	
Chloroethane	<1.000	50.00	48.76	98	59-132	ug/L	04/28/16 23:00	
Chloroform	<1.000	50.00	55.01	110	71-118	ug/L	04/28/16 23:00	
Chloromethane	<1.000	50.00	46.17	92	62-131	ug/L	04/28/16 23:00	
Cyclohexane	<10.00	50.00	47.67	95	46-150	ug/L	04/28/16 23:00	
1,2-Dibromo-3-Chloropropane	<10.00	50.00	45.86	92	59-135	ug/L	04/28/16 23:00	
Dibromochloromethane	<1.000	50.00	53.40	107	75-114	ug/L	04/28/16 23:00	
1,2-Dibromoethane (EDB)	<1.000	50.00	50.93	102	78-121	ug/L	04/28/16 23:00	
1,2-Dichlorobenzene	<1.000	50.00	50.06	100	80-122	ug/L	04/28/16 23:00	
1,3-Dichlorobenzene	<1.000	50.00	49.74	99	80-122	ug/L	04/28/16 23:00	
1,4-Dichlorobenzene	<1.000	50.00	49.66	99	77-118	ug/L	04/28/16 23:00	
Dichlorodifluoromethane	<1.000	50.00	52.11	104	54-139	ug/L	04/28/16 23:00	
1,1-Dichloroethane	<1.000	50.00	52.82	106	51-136	ug/L	04/28/16 23:00	
1,2-Dichloroethane	<1.000	50.00	58.22	116	64-130	ug/L	04/28/16 23:00	
1,1-Dichloroethene	<1.000	50.00	52.33	105	59-123	ug/L	04/28/16 23:00	
cis-1,2-Dichloroethene	<1.000	50.00	54.75	110	77-119	ug/L	04/28/16 23:00	
1,2-Dichloropropane	<1.000	50.00	51.71	103	75-125	ug/L	04/28/16 23:00	
cis-1,3-Dichloropropene	<1.000	50.00	52.48	105	74-123	ug/L	04/28/16 23:00	
trans-1,3-Dichloropropene	<1.000	50.00	54.75	110	73-116	ug/L	04/28/16 23:00	
trans-1,2-Dichloroethene	<1.000	50.00	54.26	109	58-134	ug/L	04/28/16 23:00	
Diisopropyl ether	<10.00	50.00	49.01	98	48-146	ug/L	04/28/16 23:00	
Ethylbenzene	<1.000	50.00	49.67	99	79-122	ug/L	04/28/16 23:00	
2-Hexanone	<10.00	50.00	47.22	94	56-134	ug/L	04/28/16 23:00	
Isopropylbenzene	<1.000	50.00	47.49	95	80-128	ug/L	04/28/16 23:00	
Methyl Acetate	<10.00	50.00	51.87	104	47-145	ug/L	04/28/16 23:00	
Methylcyclohexane	<10.00	50.00	50.03	100	61-155	ug/L	04/28/16 23:00	
Methylene Chloride	<1.000	50.00	53.56	107	61-126	ug/L	04/28/16 23:00	
4-Methyl-2-Pentanone	<5.000	50.00	53.83	108	45-145	ug/L	04/28/16 23:00	
Methyl-t-butyl ether	<1.000	50.00	55.34	111	30-168	ug/L	04/28/16 23:00	
Naphthalene	<1.000	50.00	43.82	88	46-154	ug/L	04/28/16 23:00	
Styrene	<1.000	50.00	49.46	99	73-118	ug/L	04/28/16 23:00	
1,1,2,2-Tetrachloroethane	<1.000	50.00	44.87	90	71-126	ug/L	04/28/16 23:00	
Tetrachloroethene	<1.000	50.00	58.03	116	78-113	ug/L	04/28/16 23:00	H
Toluene	<1.000	50.00	54.17	108	77-123	ug/L	04/28/16 23:00	
1,2,3-Trichlorobenzene	<1.000	50.00	52.26	105	66-140	ug/L	04/28/16 23:00	
1,2,4-Trichlorobenzene	<1.000	50.00	52.12	104	72-143	ug/L	04/28/16 23:00	
1,1,1-Trichloroethane	<1.000	50.00	57.90	116	66-133	ug/L	04/28/16 23:00	

PHASE SEPARATION SCIENCE, INC.

QC Summary 16042215

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8260 B

Prep Method: SW5030B

Seq Number: 132148

Matrix: Water

Date Prep: 04/28/16

MB Sample Id: 60573-1-BLK

LCS Sample Id: 60573-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
1,1,2-Trichloroethane	<1.000	50.00	53.84	108	72-128	ug/L	04/28/16 23:00	
Trichloroethene	<1.000	50.00	55.32	111	72-127	ug/L	04/28/16 23:00	
Trichlorofluoromethane	<5.000	50.00	56.51	113	45-130	ug/L	04/28/16 23:00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	<1.000	50.00	53.52	107	56-126	ug/L	04/28/16 23:00	
Vinyl Chloride	<1.000	50.00	53.61	107	64-132	ug/L	04/28/16 23:00	
m,p-Xylenes	<2.000	100	101.7	102	78-119	ug/L	04/28/16 23:00	
o-Xylene	<1.000	50.00	50.63	101	79-123	ug/L	04/28/16 23:00	

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	93		93		81-133	%	04/28/16 23:00
Dibromofluoromethane	110		109		84-110	%	04/28/16 23:00
Toluene-D8	106		104		94-109	%	04/28/16 23:00

PHASE SEPARATION SCIENCE, INC.

QC Summary 16042215

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 132171 Matrix: Water Date Prep: 04/29/16
MB Sample Id: 60580-1-BLK LCS Sample Id: 60580-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Acetone	<10.00	50.00	58.60	117	53-146	ug/L	04/29/16 09:43	
tert-Amyl alcohol	<20.00	50.00	45.66	91	27-139	ug/L	04/29/16 09:43	
tert-Amyl ethyl ether	<10.00	50.00	49.07	98	60-121	ug/L	04/29/16 09:43	
tert-Amyl methyl ether	<10.00	50.00	52.13	104	61-129	ug/L	04/29/16 09:43	
Benzene	<1.000	50.00	52.40	105	77-122	ug/L	04/29/16 09:43	
Bromochloromethane	<1.000	50.00	60.08	120	71-122	ug/L	04/29/16 09:43	
Bromodichloromethane	<1.000	50.00	57.35	115	76-122	ug/L	04/29/16 09:43	
Bromoform	<5.000	50.00	53.03	106	69-115	ug/L	04/29/16 09:43	
Bromomethane	<1.000	50.00	45.07	90	40-147	ug/L	04/29/16 09:43	
tert-Butyl alcohol	<20.00	50.00	52.24	104	15-150	ug/L	04/29/16 09:43	
2-Butanone (MEK)	<10.00	50.00	57.29	115	56-133	ug/L	04/29/16 09:43	
tert-Butyl ethyl ether	<10.00	50.00	53.14	106	62-137	ug/L	04/29/16 09:43	
Carbon Disulfide	<10.00	50.00	52.72	105	62-134	ug/L	04/29/16 09:43	
Carbon Tetrachloride	<1.000	50.00	54.54	109	74-127	ug/L	04/29/16 09:43	
Chlorobenzene	<1.000	50.00	49.07	98	76-116	ug/L	04/29/16 09:43	
Chloroethane	<1.000	50.00	51.22	102	59-132	ug/L	04/29/16 09:43	
Chloroform	<1.000	50.00	56.65	113	71-118	ug/L	04/29/16 09:43	
Chloromethane	<1.000	50.00	45.38	91	62-131	ug/L	04/29/16 09:43	
Cyclohexane	<10.00	50.00	50.10	100	46-150	ug/L	04/29/16 09:43	
1,2-Dibromo-3-Chloropropane	<10.00	50.00	47.94	96	59-135	ug/L	04/29/16 09:43	
Dibromochloromethane	<1.000	50.00	53.27	107	75-114	ug/L	04/29/16 09:43	
1,2-Dibromoethane (EDB)	<1.000	50.00	50.74	101	78-121	ug/L	04/29/16 09:43	
1,2-Dichlorobenzene	<1.000	50.00	49.03	98	80-122	ug/L	04/29/16 09:43	
1,3-Dichlorobenzene	<1.000	50.00	48.11	96	80-122	ug/L	04/29/16 09:43	
1,4-Dichlorobenzene	<1.000	50.00	47.85	96	77-118	ug/L	04/29/16 09:43	
Dichlorodifluoromethane	<1.000	50.00	52.82	106	54-139	ug/L	04/29/16 09:43	
1,1-Dichloroethane	<1.000	50.00	53.30	107	51-136	ug/L	04/29/16 09:43	
1,2-Dichloroethane	<1.000	50.00	60.37	121	64-130	ug/L	04/29/16 09:43	
1,1-Dichloroethene	<1.000	50.00	53.44	107	59-123	ug/L	04/29/16 09:43	
cis-1,2-Dichloroethene	<1.000	50.00	55.72	111	77-119	ug/L	04/29/16 09:43	
1,2-Dichloropropane	<1.000	50.00	50.86	102	75-125	ug/L	04/29/16 09:43	
cis-1,3-Dichloropropene	<1.000	50.00	50.08	100	74-123	ug/L	04/29/16 09:43	
trans-1,3-Dichloropropene	<1.000	50.00	52.52	105	73-116	ug/L	04/29/16 09:43	
trans-1,2-Dichloroethene	<1.000	50.00	55.84	112	58-134	ug/L	04/29/16 09:43	
Diisopropyl ether	<10.00	50.00	49.40	99	48-146	ug/L	04/29/16 09:43	
Ethylbenzene	<1.000	50.00	48.15	96	79-122	ug/L	04/29/16 09:43	
2-Hexanone	<10.00	50.00	59.81	120	56-134	ug/L	04/29/16 09:43	
Isopropylbenzene	<1.000	50.00	46.01	92	80-128	ug/L	04/29/16 09:43	
Methyl Acetate	<10.00	50.00	54.87	110	47-145	ug/L	04/29/16 09:43	
Methylcyclohexane	<10.00	50.00	50.98	102	61-155	ug/L	04/29/16 09:43	
Methylene Chloride	<1.000	50.00	54.22	108	61-126	ug/L	04/29/16 09:43	
4-Methyl-2-Pentanone	<5.000	50.00	67.02	134	45-145	ug/L	04/29/16 09:43	
Methyl-t-butyl ether	<1.000	50.00	56.33	113	30-168	ug/L	04/29/16 09:43	
Naphthalene	<1.000	50.00	43.84	88	46-154	ug/L	04/29/16 09:43	
Styrene	<1.000	50.00	49.67	99	73-118	ug/L	04/29/16 09:43	
1,1,2,2-Tetrachloroethane	<1.000	50.00	42.93	86	71-126	ug/L	04/29/16 09:43	
Tetrachloroethene	<1.000	50.00	58.88	118	78-113	ug/L	04/29/16 09:43	H
Toluene	<1.000	50.00	54.17	108	77-123	ug/L	04/29/16 09:43	
1,2,3-Trichlorobenzene	<1.000	50.00	51.30	103	66-140	ug/L	04/29/16 09:43	
1,2,4-Trichlorobenzene	<1.000	50.00	50.53	101	72-143	ug/L	04/29/16 09:43	
1,1,1-Trichloroethane	<1.000	50.00	59.38	119	66-133	ug/L	04/29/16 09:43	

PHASE SEPARATION SCIENCE, INC.

QC Summary 16042215

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8260 B Prep Method: SW5030B

Seq Number: 132171 Matrix: Water Date Prep: 04/29/16

MB Sample Id: 60580-1-BLK LCS Sample Id: 60580-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
1,1,2-Trichloroethane	<1.000	50.00	54.40	109	72-128	ug/L	04/29/16 09:43	
Trichloroethene	<1.000	50.00	56.40	113	72-127	ug/L	04/29/16 09:43	
Trichlorofluoromethane	<5.000	50.00	59.45	119	45-130	ug/L	04/29/16 09:43	
1,1,2-Trichloro-1,2,2-Trifluoroethane	<1.000	50.00	55.06	110	56-126	ug/L	04/29/16 09:43	
Vinyl Chloride	<1.000	50.00	54.37	109	64-132	ug/L	04/29/16 09:43	
m,p-Xylenes	<2.000	100	98.73	99	78-119	ug/L	04/29/16 09:43	
o-Xylene	<1.000	50.00	48.71	97	79-123	ug/L	04/29/16 09:43	

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	94		93		81-133	%	04/29/16 09:43
Dibromofluoromethane	110		109		84-110	%	04/29/16 09:43
Toluene-D8	107		103		94-109	%	04/29/16 09:43

PHASE SEPARATION SCIENCE, INC.

QC Summary 16042215

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 132033 Matrix: Ground Water Date Prep: 04/25/16
Parent Sample Id: 16042215-001 MS Sample Id: 16042215-001 S MSD Sample Id: 16042215-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Acetone	<10.00	50.00	36.33	73	34.42	69	41-161	5	25	ug/L	04/25/16 19:29	
tert-Amyl alcohol	<20.00	50.00	52.16	104	39.63	79	5-149	27	25	ug/L	04/25/16 19:29	F
tert-Amyl ethyl ether	<10.00	50.00	51.55	103	51.54	103	48-129	0	25	ug/L	04/25/16 19:29	
tert-Amyl methyl ether	<10.00	50.00	48.63	97	51.06	102	50-139	5	25	ug/L	04/25/16 19:29	
Benzene	<1.000	50.00	53.87	108	53.21	106	75-132	1	25	ug/L	04/25/16 19:29	
Bromochloromethane	<1.000	50.00	52.06	104	53.31	107	67-130	2	25	ug/L	04/25/16 19:29	
Bromodichloromethane	<1.000	50.00	51.29	103	50.88	102	69-134	1	25	ug/L	04/25/16 19:29	
Bromoform	<5.000	50.00	49.95	100	50.54	101	65-115	1	25	ug/L	04/25/16 19:29	
Bromomethane	<1.000	50.00	49.42	99	47.70	95	29-154	4	25	ug/L	04/25/16 19:29	
tert-Butyl alcohol	<20.00	50.00	50.91	102	46.13	92	1-183	10	25	ug/L	04/25/16 19:29	
2-Butanone (MEK)	<10.00	50.00	34.46	69	37.34	75	47-140	8	25	ug/L	04/25/16 19:29	
tert-Butyl ethyl ether	<10.00	50.00	44.84	90	46.09	92	55-141	3	25	ug/L	04/25/16 19:29	
Carbon Disulfide	<10.00	50.00	52.07	104	50.52	101	59-146	3	25	ug/L	04/25/16 19:29	
Carbon Tetrachloride	<1.000	50.00	48.95	98	48.37	97	74-136	1	25	ug/L	04/25/16 19:29	
Chlorobenzene	<1.000	50.00	51.80	104	50.91	102	78-115	2	25	ug/L	04/25/16 19:29	
Chloroethane	<1.000	50.00	49.34	99	45.65	91	40-150	8	25	ug/L	04/25/16 19:29	
Chloroform	<1.000	50.00	50.48	101	50.88	102	67-130	1	25	ug/L	04/25/16 19:29	
Chloromethane	<1.000	50.00	47.63	95	46.13	92	59-144	3	25	ug/L	04/25/16 19:29	
Cyclohexane	<10.00	50.00	44.06	88	47.49	95	34-161	7	25	ug/L	04/25/16 19:29	
1,2-Dibromo-3-Chloropropane	<10.00	50.00	49.68	99	53.33	107	45-125	7	25	ug/L	04/25/16 19:29	
Dibromochloromethane	<1.000	50.00	51.59	103	51.53	103	73-114	0	25	ug/L	04/25/16 19:29	
1,2-Dibromoethane (EDB)	<1.000	50.00	51.97	104	51.89	104	72-126	0	25	ug/L	04/25/16 19:29	
1,2-Dichlorobenzene	<1.000	50.00	51.32	103	51.28	103	73-117	0	25	ug/L	04/25/16 19:29	
1,3-Dichlorobenzene	<1.000	50.00	50.87	102	50.49	101	73-117	1	25	ug/L	04/25/16 19:29	
1,4-Dichlorobenzene	<1.000	50.00	50.09	100	50.00	100	72-111	0	25	ug/L	04/25/16 19:29	
Dichlorodifluoromethane	<1.000	50.00	50.68	101	47.12	94	47-159	7	25	ug/L	04/25/16 19:29	
1,1-Dichloroethane	<1.000	50.00	52.01	104	50.95	102	44-152	2	25	ug/L	04/25/16 19:29	
1,2-Dichloroethane	<1.000	50.00	49.29	99	49.53	99	60-142	0	25	ug/L	04/25/16 19:29	
1,1-Dichloroethene	<1.000	50.00	51.14	102	50.22	100	50-136	2	25	ug/L	04/25/16 19:29	
cis-1,2-Dichloroethene	<1.000	50.00	52.40	105	52.39	105	76-127	0	25	ug/L	04/25/16 19:29	
1,2-Dichloropropane	<1.000	50.00	55.53	111	53.89	108	70-139	3	25	ug/L	04/25/16 19:29	
cis-1,3-Dichloropropene	<1.000	50.00	53.72	107	52.41	105	64-127	2	25	ug/L	04/25/16 19:29	
trans-1,3-Dichloropropene	<1.000	50.00	54.10	108	53.11	106	62-123	2	25	ug/L	04/25/16 19:29	
trans-1,2-Dichloroethene	<1.000	50.00	52.01	104	50.39	101	54-144	3	25	ug/L	04/25/16 19:29	
Diisopropyl ether	<10.00	50.00	53.87	108	54.01	108	49-150	0	25	ug/L	04/25/16 19:29	
Ethylbenzene	<1.000	50.00	54.18	108	52.69	105	74-129	3	25	ug/L	04/25/16 19:29	
2-Hexanone	<10.00	50.00	40.32	81	40.37	81	50-130	0	25	ug/L	04/25/16 19:29	
Isopropylbenzene	<1.000	50.00	53.10	106	53.85	108	72-130	1	25	ug/L	04/25/16 19:29	
Methyl Acetate	<10.00	50.00	47.34	95	48.69	97	37-143	3	25	ug/L	04/25/16 19:29	
Methylcyclohexane	<10.00	50.00	51.05	102	52.18	104	55-148	2	25	ug/L	04/25/16 19:29	
Methylene Chloride	<1.000	50.00	49.79	100	49.10	98	56-137	1	25	ug/L	04/25/16 19:29	
4-Methyl-2-Pentanone	<5.000	50.00	33.18	66	35.72	71	44-133	7	25	ug/L	04/25/16 19:29	
Methyl-t-butyl ether	<1.000	50.00	49.33	99	50.68	101	22-182	3	25	ug/L	04/25/16 19:29	
Naphthalene	1.620	50.00	45.66	88	50.12	97	7-137	9	25	ug/L	04/25/16 19:29	
Styrene	<1.000	50.00	47.39	95	46.62	93	67-121	2	25	ug/L	04/25/16 19:29	
1,1,2,2-Tetrachloroethane	<1.000	50.00	51.28	103	52.89	106	68-127	3	25	ug/L	04/25/16 19:29	
Tetrachloroethene	<1.000	50.00	51.52	103	50.25	101	69-126	2	25	ug/L	04/25/16 19:29	
Toluene	<1.000	50.00	53.96	108	52.54	105	74-132	3	25	ug/L	04/25/16 19:29	
1,2,3-Trichlorobenzene	<1.000	50.00	41.43	83	45.96	92	9-139	10	25	ug/L	04/25/16 19:29	
1,2,4-Trichlorobenzene	<1.000	50.00	48.90	98	52.97	106	31-135	8	25	ug/L	04/25/16 19:29	
1,1,1-Trichloroethane	<1.000	50.00	47.81	96	47.92	96	70-138	0	25	ug/L	04/25/16 19:29	

PHASE SEPARATION SCIENCE, INC.

QC Summary 16042215

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8260 B Prep Method: SW5030B

Seq Number: 132033 Matrix: Ground Water Date Prep: 04/25/16

Parent Sample Id: 16042215-001 MS Sample Id: 16042215-001 S MSD Sample Id: 16042215-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,2-Trichloroethane	<1.000	50.00	53.00	106	52.42	105	65-143	1	25	ug/L	04/25/16 19:29	
Trichloroethene	<1.000	50.00	52.82	106	50.67	101	67-139	4	25	ug/L	04/25/16 19:29	
Trichlorofluoromethane	<5.000	50.00	48.63	97	44.90	90	37-147	8	25	ug/L	04/25/16 19:29	
1,1,2-Trichloro-1,2,2-Trifluoroethane	<1.000	50.00	43.17	86	41.94	84	47-139	3	25	ug/L	04/25/16 19:29	
Vinyl Chloride	<1.000	50.00	48.61	97	47.08	94	60-146	3	25	ug/L	04/25/16 19:29	
m,p-Xylenes	<2.000	100	108.8	109	105.8	106	78-119	3	25	ug/L	04/25/16 19:29	
o-Xylene	<1.000	50.00	54.21	108	52.40	105	80-123	3	25	ug/L	04/25/16 19:29	

Surrogate	MS Result	MS Flag	MSD Result	MSD Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	97		100		81-133	%	04/25/16 19:29
Dibromofluoromethane	95		99		84-110	%	04/25/16 19:29
Toluene-D8	101		100		94-109	%	04/25/16 19:29

PHASE SEPARATION SCIENCE, INC.

QC Summary 16042215

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 132147 Matrix: Ground Water Date Prep: 04/28/16
Parent Sample Id: 16042215-019 MS Sample Id: 16042215-019 S MSD Sample Id: 16042215-019 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Acetone	<10.00	50.00	38.47	77	41.14	82	41-161	7	25	ug/L	04/28/16 18:49	
tert-Amyl alcohol	<20.00	50.00	36.81	74	40.14	80	5-149	9	25	ug/L	04/28/16 18:49	
tert-Amyl ethyl ether	<10.00	50.00	41.01	82	40.71	81	48-129	1	25	ug/L	04/28/16 18:49	
tert-Amyl methyl ether	<10.00	50.00	41.95	84	43.35	87	50-139	3	25	ug/L	04/28/16 18:49	
Benzene	<1.000	50.00	45.47	91	44.10	88	75-132	3	25	ug/L	04/28/16 18:49	
Bromochloromethane	<1.000	50.00	48.12	96	49.51	99	67-130	3	25	ug/L	04/28/16 18:49	
Bromodichloromethane	<1.000	50.00	47.68	95	46.89	94	69-134	2	25	ug/L	04/28/16 18:49	
Bromoform	<5.000	50.00	46.80	94	46.89	94	65-115	0	25	ug/L	04/28/16 18:49	
Bromomethane	<1.000	50.00	37.77	76	38.70	77	29-154	2	25	ug/L	04/28/16 18:49	
tert-Butyl alcohol	<20.00	50.00	36.74	73	39.85	80	1-183	8	25	ug/L	04/28/16 18:49	
2-Butanone (MEK)	<10.00	50.00	18.77	38	38.52	77	47-140	69	25	ug/L	04/28/16 18:49	XF
tert-Butyl ethyl ether	<10.00	50.00	42.15	84	43.70	87	55-141	4	25	ug/L	04/28/16 18:49	
Carbon Disulfide	<10.00	50.00	44.93	90	43.00	86	59-146	4	25	ug/L	04/28/16 18:49	
Carbon Tetrachloride	<1.000	50.00	45.93	92	43.30	87	74-136	6	25	ug/L	04/28/16 18:49	
Chlorobenzene	<1.000	50.00	45.10	90	44.15	88	78-115	2	25	ug/L	04/28/16 18:49	
Chloroethane	<1.000	50.00	41.50	83	40.49	81	40-150	2	25	ug/L	04/28/16 18:49	
Chloroform	<1.000	50.00	46.05	92	46.20	92	67-130	0	25	ug/L	04/28/16 18:49	
Chloromethane	<1.000	50.00	36.63	73	36.87	74	59-144	1	25	ug/L	04/28/16 18:49	
Cyclohexane	<10.00	50.00	44.09	88	40.40	81	34-161	9	25	ug/L	04/28/16 18:49	
1,2-Dibromo-3-Chloropropane	<10.00	50.00	38.28	77	40.99	82	45-125	7	25	ug/L	04/28/16 18:49	
Dibromochloromethane	<1.000	50.00	46.40	93	45.65	91	73-114	2	25	ug/L	04/28/16 18:49	
1,2-Dibromoethane (EDB)	<1.000	50.00	43.71	87	44.21	88	72-126	1	25	ug/L	04/28/16 18:49	
1,2-Dichlorobenzene	<1.000	50.00	42.73	85	42.71	85	73-117	0	25	ug/L	04/28/16 18:49	
1,3-Dichlorobenzene	<1.000	50.00	42.80	86	42.56	85	73-117	1	25	ug/L	04/28/16 18:49	
1,4-Dichlorobenzene	<1.000	50.00	42.53	85	42.27	85	72-111	1	25	ug/L	04/28/16 18:49	
Dichlorodifluoromethane	<1.000	50.00	48.64	97	45.96	92	47-159	6	25	ug/L	04/28/16 18:49	
1,1-Dichloroethane	<1.000	50.00	45.10	90	43.47	87	44-152	4	25	ug/L	04/28/16 18:49	
1,2-Dichloroethane	<1.000	50.00	47.33	95	48.29	97	60-142	2	25	ug/L	04/28/16 18:49	
1,1-Dichloroethene	<1.000	50.00	45.55	91	42.97	86	50-136	6	25	ug/L	04/28/16 18:49	
cis-1,2-Dichloroethene	<1.000	50.00	47.41	95	46.50	93	76-127	2	25	ug/L	04/28/16 18:49	
1,2-Dichloropropane	<1.000	50.00	44.60	89	43.31	87	70-139	3	25	ug/L	04/28/16 18:49	
cis-1,3-Dichloropropene	<1.000	50.00	44.64	89	44.75	90	64-127	0	25	ug/L	04/28/16 18:49	
trans-1,3-Dichloropropene	<1.000	50.00	46.37	93	46.45	93	62-123	0	25	ug/L	04/28/16 18:49	
trans-1,2-Dichloroethene	<1.000	50.00	46.03	92	45.11	90	54-144	2	25	ug/L	04/28/16 18:49	
Diisopropyl ether	<10.00	50.00	40.91	82	41.30	83	49-150	1	25	ug/L	04/28/16 18:49	
Ethylbenzene	<1.000	50.00	45.12	90	43.15	86	74-129	4	25	ug/L	04/28/16 18:49	
2-Hexanone	<10.00	50.00	40.29	81	41.86	84	50-130	4	25	ug/L	04/28/16 18:49	
Isopropylbenzene	<1.000	50.00	42.10	84	40.64	81	72-130	4	25	ug/L	04/28/16 18:49	
Methyl Acetate	<10.00	50.00	42.49	85	40.29	81	37-143	5	25	ug/L	04/28/16 18:49	
Methylcyclohexane	<10.00	50.00	45.94	92	42.49	85	55-148	8	25	ug/L	04/28/16 18:49	
Methylene Chloride	<1.000	50.00	46.48	93	45.62	91	56-137	2	25	ug/L	04/28/16 18:49	
4-Methyl-2-Pentanone	<5.000	50.00	43.34	87	45.62	91	44-133	5	25	ug/L	04/28/16 18:49	
Methyl-t-butyl ether	1.480	50.00	45.62	88	47.38	92	22-182	4	25	ug/L	04/28/16 18:49	
Naphthalene	<1.000	50.00	34.28	69	36.78	74	7-137	7	25	ug/L	04/28/16 18:49	
Styrene	<1.000	50.00	44.49	89	44.37	89	67-121	0	25	ug/L	04/28/16 18:49	
1,1,2,2-Tetrachloroethane	<1.000	50.00	38.17	76	39.32	79	68-127	3	25	ug/L	04/28/16 18:49	
Tetrachloroethene	<1.000	50.00	50.86	102	48.15	96	69-126	5	25	ug/L	04/28/16 18:49	
Toluene	<1.000	50.00	46.65	93	45.62	91	74-132	2	25	ug/L	04/28/16 18:49	
1,2,3-Trichlorobenzene	<1.000	50.00	41.00	82	43.47	87	9-139	6	25	ug/L	04/28/16 18:49	
1,2,4-Trichlorobenzene	<1.000	50.00	42.46	85	43.85	88	31-135	3	25	ug/L	04/28/16 18:49	
1,1,1-Trichloroethane	<1.000	50.00	49.60	99	47.96	96	70-138	3	25	ug/L	04/28/16 18:49	

PHASE SEPARATION SCIENCE, INC.

QC Summary 16042215

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8260 B Prep Method: SW5030B

Seq Number: 132147 Matrix: Ground Water Date Prep: 04/28/16

Parent Sample Id: 16042215-019 MS Sample Id: 16042215-019 S MSD Sample Id: 16042215-019 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,2-Trichloroethane	<1.000	50.00	44.75	90	45.79	92	65-143	2	25	ug/L	04/28/16 18:49	
Trichloroethene	<1.000	50.00	46.74	93	45.61	91	67-139	2	25	ug/L	04/28/16 18:49	
Trichlorofluoromethane	<5.000	50.00	52.56	105	49.24	98	37-147	7	25	ug/L	04/28/16 18:49	
1,1,2-Trichloro-1,2,2-Trifluoroethane	<1.000	50.00	48.40	97	45.97	92	47-139	5	25	ug/L	04/28/16 18:49	
Vinyl Chloride	<1.000	50.00	42.41	85	43.91	88	60-146	3	25	ug/L	04/28/16 18:49	
m,p-Xylenes	<2.000	100	90.84	91	88.02	88	78-119	3	25	ug/L	04/28/16 18:49	
o-Xylene	<1.000	50.00	45.02	90	42.98	86	80-123	5	25	ug/L	04/28/16 18:49	

Surrogate	MS Result	MS Flag	MSD Result	MSD Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	92		93		81-133	%	04/28/16 18:49
Dibromofluoromethane	106		107		84-110	%	04/28/16 18:49
Toluene-D8	102		102		94-109	%	04/28/16 18:49

PHASE SEPARATION SCIENCE, INC.

QC Summary 16042215

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 132148 Matrix: Ground Water Date Prep: 04/28/16
Parent Sample Id: 16042215-022 MS Sample Id: 16042215-022 S MSD Sample Id: 16042215-022 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Acetone	<10.00	50.00	50.28	101	52.46	105	41-161	4	25	ug/L	04/29/16 06:53	
tert-Amyl alcohol	<20.00	50.00	47.56	95	44.43	89	5-149	7	25	ug/L	04/29/16 06:53	
tert-Amyl ethyl ether	<10.00	50.00	48.41	97	47.36	95	48-129	2	25	ug/L	04/29/16 06:53	
tert-Amyl methyl ether	<10.00	50.00	51.66	103	50.62	101	50-139	2	25	ug/L	04/29/16 06:53	
Benzene	<1.000	50.00	54.23	108	51.98	104	75-132	4	25	ug/L	04/29/16 06:53	
Bromochloromethane	<1.000	50.00	62.01	124	58.41	117	67-130	6	25	ug/L	04/29/16 06:53	
Bromodichloromethane	<1.000	50.00	59.18	118	56.87	114	69-134	4	25	ug/L	04/29/16 06:53	
Bromoform	<5.000	50.00	54.58	109	52.10	104	65-115	5	25	ug/L	04/29/16 06:53	
Bromomethane	<1.000	50.00	44.39	89	44.09	88	29-154	1	25	ug/L	04/29/16 06:53	
tert-Butyl alcohol	<20.00	50.00	54.38	109	46.36	93	1-183	16	25	ug/L	04/29/16 06:53	
2-Butanone (MEK)	<10.00	50.00	45.50	91	44.31	89	47-140	3	25	ug/L	04/29/16 06:53	
tert-Butyl ethyl ether	<10.00	50.00	53.02	106	51.51	103	55-141	3	25	ug/L	04/29/16 06:53	
Carbon Disulfide	<10.00	50.00	55.02	110	51.58	103	59-146	6	25	ug/L	04/29/16 06:53	
Carbon Tetrachloride	<1.000	50.00	57.87	116	53.38	107	74-136	8	25	ug/L	04/29/16 06:53	
Chlorobenzene	<1.000	50.00	50.65	101	49.11	98	78-115	3	25	ug/L	04/29/16 06:53	
Chloroethane	<1.000	50.00	52.88	106	49.92	100	40-150	6	25	ug/L	04/29/16 06:53	
Chloroform	<1.000	50.00	57.06	114	55.40	111	67-130	3	25	ug/L	04/29/16 06:53	
Chloromethane	<1.000	50.00	45.98	92	46.29	93	59-144	1	25	ug/L	04/29/16 06:53	
Cyclohexane	<10.00	50.00	52.26	105	49.10	98	34-161	6	25	ug/L	04/29/16 06:53	
1,2-Dibromo-3-Chloropropane	<10.00	50.00	47.20	94	42.78	86	45-125	10	25	ug/L	04/29/16 06:53	
Dibromochloromethane	<1.000	50.00	53.09	106	52.76	106	73-114	1	25	ug/L	04/29/16 06:53	
1,2-Dibromoethane (EDB)	<1.000	50.00	51.08	102	49.76	100	72-126	3	25	ug/L	04/29/16 06:53	
1,2-Dichlorobenzene	<1.000	50.00	49.43	99	47.44	95	73-117	4	25	ug/L	04/29/16 06:53	
1,3-Dichlorobenzene	<1.000	50.00	49.08	98	47.64	95	73-117	3	25	ug/L	04/29/16 06:53	
1,4-Dichlorobenzene	<1.000	50.00	48.19	96	47.64	95	72-111	1	25	ug/L	04/29/16 06:53	
Dichlorodifluoromethane	<1.000	50.00	57.52	115	55.05	110	47-159	4	25	ug/L	04/29/16 06:53	
1,1-Dichloroethane	<1.000	50.00	55.00	110	51.95	104	44-152	6	25	ug/L	04/29/16 06:53	
1,2-Dichloroethane	<1.000	50.00	59.94	120	58.20	116	60-142	3	25	ug/L	04/29/16 06:53	
1,1-Dichloroethene	<1.000	50.00	55.54	111	51.71	103	50-136	7	25	ug/L	04/29/16 06:53	
cis-1,2-Dichloroethene	<1.000	50.00	57.37	115	54.90	110	76-127	4	25	ug/L	04/29/16 06:53	
1,2-Dichloropropane	<1.000	50.00	52.35	105	50.81	102	70-139	3	25	ug/L	04/29/16 06:53	
cis-1,3-Dichloropropene	<1.000	50.00	51.40	103	49.61	99	64-127	4	25	ug/L	04/29/16 06:53	
trans-1,3-Dichloropropene	<1.000	50.00	53.65	107	52.42	105	62-123	2	25	ug/L	04/29/16 06:53	
trans-1,2-Dichloroethene	<1.000	50.00	56.44	113	54.02	108	54-144	4	25	ug/L	04/29/16 06:53	
Diisopropyl ether	<10.00	50.00	50.41	101	48.54	97	49-150	4	25	ug/L	04/29/16 06:53	
Ethylbenzene	<1.000	50.00	50.00	100	48.12	96	74-129	4	25	ug/L	04/29/16 06:53	
2-Hexanone	<10.00	50.00	48.62	97	44.78	90	50-130	8	25	ug/L	04/29/16 06:53	
Isopropylbenzene	<1.000	50.00	47.96	96	45.67	91	72-130	5	25	ug/L	04/29/16 06:53	
Methyl Acetate	<10.00	50.00	48.09	96	43.56	87	37-143	10	25	ug/L	04/29/16 06:53	
Methylcyclohexane	<10.00	50.00	52.65	105	49.60	99	55-148	6	25	ug/L	04/29/16 06:53	
Methylene Chloride	<1.000	50.00	55.73	111	54.63	109	56-137	2	25	ug/L	04/29/16 06:53	
4-Methyl-2-Pentanone	<5.000	50.00	54.34	109	48.28	97	44-133	12	25	ug/L	04/29/16 06:53	
Methyl-t-butyl ether	<1.000	50.00	56.95	114	55.21	110	22-182	3	25	ug/L	04/29/16 06:53	
Naphthalene	<1.000	50.00	40.80	82	39.71	79	7-137	3	25	ug/L	04/29/16 06:53	
Styrene	<1.000	50.00	50.39	101	50.30	101	67-121	0	25	ug/L	04/29/16 06:53	
1,1,2,2-Tetrachloroethane	<1.000	50.00	45.31	91	43.05	86	68-127	5	25	ug/L	04/29/16 06:53	
Tetrachloroethene	<1.000	50.00	59.96	120	57.04	114	69-126	5	25	ug/L	04/29/16 06:53	
Toluene	<1.000	50.00	56.12	112	54.10	108	74-132	4	25	ug/L	04/29/16 06:53	
1,2,3-Trichlorobenzene	<1.000	50.00	46.12	92	46.78	94	9-139	1	25	ug/L	04/29/16 06:53	
1,2,4-Trichlorobenzene	<1.000	50.00	48.12	96	47.86	96	31-135	1	25	ug/L	04/29/16 06:53	
1,1,1-Trichloroethane	<1.000	50.00	61.24	122	57.13	114	70-138	7	25	ug/L	04/29/16 06:53	

PHASE SEPARATION SCIENCE, INC.

QC Summary 16042215

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8260 B Prep Method: SW5030B

Seq Number: 132148 Matrix: Ground Water Date Prep: 04/28/16

Parent Sample Id: 16042215-022 MS Sample Id: 16042215-022 S MSD Sample Id: 16042215-022 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,2-Trichloroethane	<1.000	50.00	55.00	110	53.20	106	65-143	3	25	ug/L	04/29/16 06:53	
Trichloroethene	<1.000	50.00	56.77	114	54.28	109	67-139	4	25	ug/L	04/29/16 06:53	
Trichlorofluoromethane	<5.000	50.00	63.79	128	57.77	116	37-147	10	25	ug/L	04/29/16 06:53	
1,1,2-Trichloro-1,2,2-Trifluoroethane	<1.000	50.00	57.63	115	53.89	108	47-139	7	25	ug/L	04/29/16 06:53	
Vinyl Chloride	<1.000	50.00	55.05	110	54.79	110	60-146	0	25	ug/L	04/29/16 06:53	
m,p-Xylenes	<2.000	100	101.7	102	100.2	100	78-119	1	25	ug/L	04/29/16 06:53	
o-Xylene	<1.000	50.00	49.79	100	48.87	98	80-123	2	25	ug/L	04/29/16 06:53	

Surrogate	MS Result	MS Flag	MSD Result	MSD Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	93		93		81-133	%	04/29/16 06:53
Dibromofluoromethane	110		108		84-110	%	04/29/16 06:53
Toluene-D8	105		105		94-109	%	04/29/16 06:53

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

PSS Work Order #: 16042215 PAGE 1 OF 4

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

1

*CLIENT: UMM *OFFICE LOC. Wilmington, DE
*PROJECT MGR: Ken Hannon *PHONE NO.: (302) 656 9600
EMAIL: khannon@brightfieldsi.com FAX NO.: ( )
*PROJECT NAME: CRHC PROJECT NO.:
SITE LOCATION: Chestertown, MD P.O. NO.:
SAMPLER(S): M Croskey N Bartlett DW CERT NO.:

2

LAB NO.	*SAMPLE IDENTIFICATION	*DATE (SAMPLED)	*TIME (SAMPLED)	MATRIX (See Codes)	No. CONTAINERS	SAMPLE TYPE C = COMP G = GRAB	Preservatives Used: None	HCL	HCL	REMARKS
							Analysis/ Method Required ③ * TPH-DRO via 8015	VOC via 8260B	Oxygenates	
1	RW 2D	4/22/16	1235	GW	5	G	X	X	X	
2	RW 3B		1240				X	X	X	
3	RW 4		1245				X	X	X	
4	RW 5		1250				X	X	X	
5	RW 6		1255				X	X	X	
6	MW 22		1300				X	X	X	
7	MW 14	4/22/16	1120				X	X	X	
8	MW 9		1110				X	X	X	
9	MW 40		0942				X	X	X	
10	MW 11		1000				X	X	X	

5

Relinquished By:	Date	Time	Received By:
(1) [signature]	4/22/16	1442	[signature]
(2) [signature]	04/22/16	1445	[signature]
(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: 5
Custody Seal: ABS
Ice Present: PRES Temp: 11, 3, 7, 9, 10°C
Shipping Carrier: TTE

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.

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email: info@phaseonline.com

PSS Work Order #: 1604221 5 | PAGE 2 OF 4

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

1

*CLIENT: UMM *OFFICE LOC. Wilmington, DE
*PROJECT MGR: Ken Hannon *PHONE NO.: (302) 656-9600
EMAIL: khannon@brightfields,inc.com FAX NO.: ( )
*PROJECT NAME: CRHC PROJECT NO.:
SITE LOCATION: Chestertown, MD P.O. NO.:
SAMPLER(S): M. Craskey, N. Bradley DW CERT NO.:

2

LAB NO.	*SAMPLE IDENTIFICATION	*DATE (SAMPLED)	*TIME (SAMPLED)	MATRIX (See Codes)	No. CONTAINERS	SAMPLE TYPE C = COMP G = GRAB	Preservatives Used: None	HCL	HCL	HCL	REMARKS
	Analysis/ Method Required ③ *						TPH-DRO w/ 8015	VOC w/ 8260B	Oxygenates	GRO	
11	MW 32	4/22/16	1035	GW	5	G	X	X	X		
12	MW 15	↓	0910	↓	↓	↓	X	X	X		
13	Sys Eff	↓	1200	↓	↓	↓				X	

5

Relinquished By: (1)	Date	Time	Received By:
[signature]	4/22/16	1212	[signature]
Relinquished By: (2)	Date	Time	Received By:
[signature]	04/22/16	1445	[signature]
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: 5
Custody Seal: ABS
Ice Present: PRES Temp: 11, 2, 7, 9, 10C
Shipping Carrier: TTE

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SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

PHASE SEPARATION SCIENCE, INC.

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

(1)
*CLIENT: UMM *OFFICE LOC. Wilmington, DE
*PROJECT MGR: Ken Hannon *PHONE NO.: (302) 656-9600
EMAIL: khannon@christiedhine.com FAX NO.: ( )
*PROJECT NAME: CRHC PROJECT NO.:
SITE LOCATION: Chestertown, MD P.O. NO.:
SAMPLER(S): M. Carter, N. Bradley DW CERT NO.:

PSS Work Order #: 16042215 PAGE 3 OF 4

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/GRO 8015	VOC via 8260B	Oxygenates	REMARKS
	Preservatives Used						None	HCL	HCL	
14	MW 41	4/22/16	1002	GW	5	G	X	X	X	
15	MW 3		1012				X	X	X	
16	MW 4		1015				X	X	X	
17	MW 2		1024				X	X	X	
18	MW 1		1026				X	X	X	
19	MW 31R		1150				X	X	X	
20	MW 17		0902				X	X	X	
21	MW 47		1135				X	X	X	
22	MW 49		0432				X	X	X	
23	MW 48		0429				X	X	X	

(5)

Relinquished By:	Date	Time	Received By:
(1)	4/22/16	1212	Dan Parks
(2) Dan Parks	04/22/16	1445	Thomas Wang
(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: 5
Custody Seal: PGS
Ice Present: PRES Temp: 11, 3.7, 9, 10°C
Shipping Carrier: TTE

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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: UMM *OFFICE LOC. Wilmington, DE
*PROJECT MGR: Ken Harrison *PHONE NO.: (302) 656-9600
EMAIL: Kharrison@brightfieldlabs.com FAX NO.: ( )
*PROJECT NAME: CRHC PROJECT NO.:
SITE LOCATION: Chestertown, MD P.O. NO.:
SAMPLER(S): M. Crosby, N. Bradley DW CERT NO.:

PSS Work Order #: 16042215 PAGE 4 OF 4

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 w/ SGC	VOC w/ 8260B	Oxygenates	REMARKS
	Preservatives Used						None	HCL	HCL	
24 14	MW 50	4/22/16	0920	GW	5	G	X	X	X	
25 15	MW 10R		1130				X	X	X	
26 16	MW 43		1037				X	X	X	
27 17	MW 42		1053				X	X	X	
28 18	MW 45		1140				X	X	X	
29 19	MW 46		1055				X	X	X	
30 20	MW 5		1105				X	X	X	
31 21	MW 37		0940				X	X	X	
32 22	MW 44		1103				X	X	X	
33 23	MW 13		0900				X	X	X	

(5)

Relinquished By:	Date	Time	Received By:
(1)	4/22/16	1212	Van Parks
(2) Van Parks	04/22/16	1445	[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: 5
Custody Seal: ABS
Ice Present: PRES Temp: 11, 3, 7, 9, 10°C
Shipping Carrier: TTE

Final 1.001

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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 #	16042215	**Received By**	Thomas Wingate
Client Name	UMM Shore Regional Health Chester	**Date Received**	04/22/2016 02:45:00 PM
Project Name	CRHC	**Delivered By**	Trans Time Express
Disposal Date	05/27/2016	**Tracking No**	Not Applicable
		Logged In By	Rachel Davis

Shipping Container(s)

No. of Coolers 1

		Ice	Present
Custody Seal(s) Intact?	N/A	Temp (deg C)	3
Seal(s) Signed / Dated?	N/A	Temp Blank Present	No
		Ice	Present
Custody Seal(s) Intact?	N/A	Temp (deg C)	7
Seal(s) Signed / Dated?	N/A	Temp Blank Present	No
		Ice	Present
Custody Seal(s) Intact?	N/A	Temp (deg C)	9
Seal(s) Signed / Dated?	N/A	Temp Blank Present	No
		Ice	Present
Custody Seal(s) Intact?	N/A	Temp (deg C)	10
Seal(s) Signed / Dated?	N/A	Temp Blank Present	No
		Ice	Present
Custody Seal(s) Intact?	N/A	Temp (deg C)	11
Seal(s) Signed / Dated?	N/A	Temp Blank Present	No

Documentation

COC agrees with sample labels?	Yes	Sampler Name	Not Provided
Chain of Custody	Yes		N/A

Sample Container

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

Total No. of Samples Received 33

Total No. of Containers Received 165

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

Phase Separation Science, Inc

Sample Receipt Checklist

Work Order #	16042215	**Received By**	Thomas Wingate
Client Name	UMM Shore Regional Health Chester	**Date Received**	04/22/2016 02:45:00 PM
Project Name	CRHC	**Delivered By**	Trans Time Express
Disposal Date	05/27/2016	**Tracking No**	Not Applicable
		Logged In By	Rachel Davis

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.

Samples Inspected/Checklist Completed By: Rachel Davis — Date: 04/22/2016

PM Review and Approval: Lynn Jackson — Date: 04/29/2016

Analytical Report for

UMM Shore Regional Health Chestertown

Certificate of Analysis No.: 16042216

Project Manager: Ken Hannon

Project Name : CRHC

Project Location: Chestertown, MD

May 27, 2016

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.

May 27, 2016

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

Reference: PSS Work Order(s) No: **16042216**
Project Name: CRHC
Project Location: Chestertown, MD

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 **16042216**.

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 May 27, 2016, with the exception of air canisters which are cleaned immediately following analysis. 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 Chestertown

Project Name: CRHC

Work Order Number(s): 16042216

The following samples were received under chain of custody by Phase Separation Science (PSS) on 04/22/2016 at 02:45 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
16042216-001	MW 14	GROUND WATER	04/22/16 11:20
16042216-002	MW 9	GROUND WATER	04/22/16 11:10
16042216-003	MW 40	GROUND WATER	04/22/16 09:42
16042216-004	MW 11	GROUND WATER	04/22/16 10:00
16042216-005	MW 41	GROUND WATER	04/22/16 10:02
16042216-006	MW 3	GROUND WATER	04/22/16 10:12
16042216-007	MW 4	GROUND WATER	04/22/16 10:15
16042216-008	MW 2	GROUND WATER	04/22/16 10:24
16042216-009	MW 1	GROUND WATER	04/22/16 10:26
16042216-010	MW 31R	GROUND WATER	04/22/16 11:50
16042216-011	MW 17	GROUND WATER	04/22/16 09:02
16042216-012	MW 47	GROUND WATER	04/22/16 11:35
16042216-013	MW 49	GROUND WATER	04/22/16 09:32
16042216-014	MW 48	GROUND WATER	04/22/16 09:29
16042216-015	MW 50	GROUND WATER	04/22/16 09:20
16042216-016	MW 10R	GROUND WATER	04/22/16 11:30
16042216-017	MW 43	GROUND WATER	04/22/16 10:37
16042216-018	MW 42	GROUND WATER	04/22/16 10:53
16042216-019	MW 45	GROUND WATER	04/22/16 11:40
16042216-020	MW 46	GROUND WATER	04/22/16 10:55
16042216-021	MW 5	GROUND WATER	04/22/16 11:05
16042216-022	MW 37	GROUND WATER	04/22/16 09:40
16042216-023	MW 44	GROUND WATER	04/22/16 11:03
16042216-024	MW 13	GROUND WATER	04/22/16 09:00
16042216-025	MW 32	GROUND WATER	04/22/16 10:35
16042216-026	MW 15	GROUND WATER	04/22/16 09:10

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.

Sample Summary

Client Name: UMM Shore Regional Health Chestertown

Project Name: CRHC

Work Order Number(s): 16042216

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)].
7. Method 180.1, The Determination of Turbidity by Nephelometry, recommends samples over 40 NTU be diluted until the turbidity falls below 40 units. Routine samples over 40 NTU may not be diluted as long as the data quality objectives are not affected.
8. Alkalinity results analyzed by EPA 310.2 that are reported by dilution are estimated and are not in compliance with method requirements.

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 MDL.
MDL	This is the Laboratory Method Detection Limit which is equivalent to the Limit of Detection (LOD). The LOD is an estimate of the minimum amount of a substance that an analytical process can reliably detect. This value will remain constant across multiple similar instrumentation and among different analysts. 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

Rogers & Callcott ENVIRONMENTAL

Laboratory Services

Laboratory Report

Client	Phase Separation Science, Inc. Lynn Jackson 6630 Baltimore National Pike Baltimore, MD 21228	**Project:** **Work Order:** **Received:**	Routine 6041165 04/26/2016 09:30

Dear Client:

Rogers and Callcott appreciates the opportunity to be of service to you. The attached laboratory services report includes analytical results and chain of custody for samples that were received on April 26, 2016. Rogers and Callcott maintains a formal QA/QC program. Unless otherwise noted, all analyses performed under NELAP certification have complied with all the requirements for the TNI standard. The analyses met the QA/QC confidence interval for each test method unless otherwise qualified. Estimated uncertainty is available upon request.

Privileged / Confidential information may be contained in this report and is intended only for the use of the addressee. If you are not the addressee, or the person responsible for delivering to the person addressed, you may not copy or deliver this message to anyone else. If you receive this message by mistake, please notify Rogers and Callcott immediately.

We strive to provide excellent service to our clients. Please contact Amy Ashley, your Project Manager, at amy.ashley@rogersandcallcott.com or (864) -335-4962 if you have any questions about this report.

Report Approved By:

Amy Z. Ashley

Amy Ashley
Project Manager

PO Box 5655 | Greenville, SC 29606 | 426 Fairforest Way | Greenville, SC 29607 | main 864.232.1556 | fax 864.232.6140 rogersandcallcott.com
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Rogers & Callcott ENVIRONMENTAL

Certificate of Analysis

South Carolina Greenville Laboratory Identification 23105
South Carolina Columbia Laboratory Identification 40572
North Carolina Laboratory Certification Number 27
North Carolina Drinking Water Lab Number 45710
NELAP Utah Certificate Number SC000042014-1
Georgia Drinking Water Lab ID 880

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

Project: Routine
Work Order: 6041165
Received: 04/26/2016 09:30

Sample Number	Sample Description	Matrix	Sampled	Type
6041165-01	16042216-001 MW14	Water	04/22/16 11:20	
6041165-02	16042216-002 MW9	Water	04/22/16 11:10	
6041165-03	16042216-003 MW40	Water	04/22/16 09:42	
6041165-04	16042216-004 MW11	Water	04/22/16 10:00	
6041165-05	16042216-005 MW41	Water	04/22/16 10:02	
6041165-06	16042216-006 MW3	Water	04/22/16 10:12	
6041165-07	16042216-007 MW4	Water	04/22/16 10:15	
6041165-08	16042216-008 MW2	Water	04/22/16 10:24	
6041165-09	16042216-009 MW1	Water	04/22/16 10:26	
6041165-10	16042216-010 MW31R	Water	04/22/16 11:50	

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Rogers & Callcott ENVIRONMENTAL

Phase Separation Science, Inc.		Project:	Routine
6630 Baltimore National Pike		Work Order:	6041165
Baltimore, MD 21228		Reported:	05/06/16 10:10

Sample Data

Sample Number 6041165-01
Sample Description 16042216-001 MW14 collected on 04/22/16 11:20

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	ND	1.40	mg/L	1.00	04/26/10 10:55	SM 5540D-2011		SGM	B6E0220

Sample Number 6041165-02
Sample Description 16042216-002 MW9 collected on 04/22/16 11:10

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	**13.4**	1.40	mg/L	1.00	04/26/16 11:20	SM 5540D-2011		SGM	B6E0220

Sample Number 6041165-03
Sample Description 16042216-003 MW40 collected on 04/22/16 09:42

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	ND	1.40	mg/L	1.00	04/26/16 14:10	SM 5540D-2011		SGM	B6E0220

Sample Number 6041165-04
Sample Description 16042216-004 MW11 collected on 04/22/16 10:00

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	**28.4**	14.0	mg/L	10.0	04/26/16 14:20	SM 5540D-2011		SGM	B6E0220

Sample Number 6041165-05
Sample Description 16042216-005 MW41 collected on 04/22/16 10:02

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	**44.4**	3.50	mg/L	2.50	04/26/16 15:45	SM 5540D-2011		SGM	B6E0220

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Rogers & Callcott ENVIRONMENTAL

Phase Separation Science, Inc.		Project:	Routine
6630 Baltimore National Pike		Work Order:	6041165
Baltimore, MD 21228		Reported:	05/06/16 10:10

Sample Number 6041165-06
Sample Description 16042216-006 MW3 collected on 04/22/16 10:12

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	ND	1.40	mg/L	1.00	04/26/16 15:50	SM 5540D-2011		SGM	B6E0220

Sample Number 6041165-07
Sample Description 16042216-007 MW4 collected on 04/22/16 10:15

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	**15.2**	3.50	mg/L	2.50	04/29/16 08:40	SM 5540D-2011		SGM	B6E0220

Sample Number 6041165-08
Sample Description 16042216-008 MW2 collected on 04/22/16 10:24

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	**9.65**	3.50	mg/L	2.50	04/29/16 11:09	SM 5540D-2011		SGM	B6E0220

Sample Number 6041165-09
Sample Description 16042216-009 MW1 collected on 04/22/16 10:26

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	**7.60**	1.40	mg/L	1.00	04/29/16 13:00	SM 5540D-2011		SGM	B6E0220

Sample Number 6041165-10
Sample Description 16042216-010 MW31R collected on 04/22/16 11:50

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	ND	1.40	mg/L	1.00	05/02/16 08:10	SM 5540D-2011		SGM	B6E0220

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Phase Separation Science, Inc.		Project:	Routine
6630 Baltimore National Pike		Work Order:	6041165
Baltimore, MD 21228		Reported:	05/06/16 10:10

Data Qualifiers and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not reported

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6041165

Chain of Custody Form for Subcontracted Analyses

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

For Questions or issues please contact: Lynn Jackson

W.O. No. : **16042216**
P.O. No. :
Project Number : N/A
Report To LOD : No

Report Due On :04/29/16 05:00

Samples Transferred To:
Rogers & Callcott Environmental
PO Box 5655
Greenville, SC 29606

Shipping address is 426 Fairforest Way Greenville,
Phone : 1-866-805-9596

	Lab Sample ID	Field Sample ID	Date Sampled	Time Sampled	Matrix	Analyses Required	Method	Type of Container	Preservative
01	16042216-001	MW 14	04/22/16	11:20	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
02	16042216-002	MW 9	04/22/16	11:10	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
03	16042216-003	MW 40	04/22/16	09:42	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
04	16042216-004	MW 11	04/22/16	10:00	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
05	16042216-005	MW 41	04/22/16	10:02	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
06	16042216-006	MW 3	04/22/16	10:12	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
07	16042216-007	MW 4	04/22/16	10:15	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
08	16042216-008	MW 2	04/22/16	10:24	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
09	16042216-009	MW 1	04/22/16	10:26	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
10	16042216-010	MW 31R	04/22/16	11:50	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
11	16042216-011	MW 17	04/22/16	09:02	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
12	16042216-012	MW 47	04/22/16	11:35	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
13	16042216-013	MW 49	04/22/16	09:32	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
14	16042216-014	MW 48	04/22/16	09:29	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
15	16042216-015	MW 50	04/22/16	09:20	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
16	16042216-016	MW 10R	04/22/16	11:30	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
17	16042216-017	MW 43	04/22/16	10:37	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
18	16042216-018	MW 42	04/22/16	10:53	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
19	16042216-019	MW 45	04/22/16	11:40	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
20	16042216-020	MW 46	04/22/16	10:55	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
21	16042216-021	MW 5	04/22/16	11:05	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
22	16042216-022	MW 37	04/22/16	09:40	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
23	16042216-023	MW 44	04/22/16	11:03	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL

6041165

Chain of Custody Form for Subcontracted Analyses

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

W.O. No. : **16042216**
P.O. No. :
Project Number : N/A
Report To LOD : No

Samples Transferred To:
Rogers & Callcott Environmental
PO Box 5655
Greenville, SC 29606

Shipping address is 426 Fairforest Way Greenville,
Phone : 1-866-805-9596

Lab Sample ID	Field Sample ID	Date Sampled	Time Sampled	Matrix	Analyses Required	Method	Type of Container	Preservative
24 16042216-024	MW 13	04/22/16	09:00	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
25 16042216-025	MW 32	04/22/16	10:35	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
26 16042216-026	MW 15	04/22/16	09:10	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL

Data Deliverables Required: COA

Perform Q.C. on Sample :

Send Report Attn : reporting@phaseonline.com

Send InvoiceAttn : invoicing@phaseonline.com

Airbill No.: Carrier : UPS

Condition Upon Receipt :

Comments :

Samples Relinquished By : UPS Date : 4/26/16 Time: 0930 Samples Received By :

Samples Relinquished By: Date : Time : Samples Received By:

Samples Relinquished By: Date: Time: Samples Received By:

Coolers rec'd @ 1.0°C, 1.8°C, & 0.8°C

FOR LAB USE ONLY

Rogers & Callcott ENVIRONMENTAL

Sample Receipt Verification

Client: Phase

Date Received: 4.26.16

Work Order: 6041165

Carrier Name: Client FedEx UPS US Mail Courier Field Services Other:

Tracking Number: 1Z2313E4016019995 2 1.0 / 1Z2313E4015872033 8 1.8 / 1Z2313E4015974514 0 0.8

Receipt Criteria	Yes	No	NA	Comments
Shipping container / cooler intact?	X			Damaged Leaking Other:
Custody seals intact?			X	
COC included with samples?	X			
COC signed when relinquished and received?	X			
Sample bottles intact?	X			Damaged Leaking Other:
Sample ID on COC agree with label on bottle(s)?	X			
Date / time on COC agree with label on bottle(s)?	X			
Number of bottles on COC agrees with number of bottles received?	X			
Samples received within holding time?			X	no published holding time
Sample volume sufficient for analysis?	X			
VOA vials free of headspace (<6mm bubble)?			X	
Samples cooled? Temp at receipt recorded on COC; Temp measured with IR thermometer - SN: 97050067	X			Ice Cold Packs Dry Ice None
Samples requiring pH preservation at proper pH? Note: Samples for metals analysis may be preserved upon receipt in the lab.			X	
Samples dechlorinated for parameters requiring chlorine removal at the time of sample collection?			X	

If in-house preservation used – record Lot #			
HCL		H_3PO_4	
H_2SO_4		NaOH	
HNO_3		Other	

Comments:

Were non-conformance issues noted at sample receipt? Yes or No

Non-Conformance issue other than noted above:

Revised July 2014

Completed by: SP

Rogers & Callcott ENVIRONMENTAL

Laboratory Services

Laboratory Report

Client	Phase Separation Science, Inc. Lynn Jackson 6630 Baltimore National Pike Baltimore, MD 21228	**Project:** **Work Order:** **Received:**	Routine 6041165 04/26/2016 09:30

Dear Client:

Rogers and Callcott appreciates the opportunity to be of service to you. The attached laboratory services report includes analytical results and chain of custody for samples that were received on April 26, 2016. Rogers and Callcott maintains a formal QA/QC program. Unless otherwise noted, all analyses performed under NELAP certification have complied with all the requirements for the TNI standard. The analyses met the QA/QC confidence interval for each test method unless otherwise qualified. Estimated uncertainty is available upon request.

Privileged / Confidential information may be contained in this report and is intended only for the use of the addressee. If you are not the addressee, or the person responsible for delivering to the person addressed, you may not copy or deliver this message to anyone else. If you receive this message by mistake, please notify Rogers and Callcott immediately.

We strive to provide excellent service to our clients. Please contact Amy Ashley, your Project Manager, at amy.ashley@rogersandcallcott.com or (864) -335-4962 if you have any questions about this report.

Report Approved By:

Amy Z. Ashley

Amy Ashley
Project Manager

PO Box 5655 | Greenville, SC 29606 | 426 Fairforest Way | Greenville, SC 29607 | main 864.232.1556 | fax 864.232.6140 rogersandcallcott.com
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Rogers & Callcott ENVIRONMENTAL

Certificate of Analysis

South Carolina Greenville Laboratory Identification 23105
South Carolina Columbia Laboratory Identification 40572
North Carolina Laboratory Certification Number 27
North Carolina Drinking Water Lab Number 45710
NELAP Utah Certificate Number SC000042014-1
Georgia Drinking Water Lab ID 880

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

Project: Routine
Work Order: 6041165
Received: 04/26/2016 09:30

Sample Number	Sample Description	Matrix	Sampled	Type
6041165-11	16042216-011 MW17	Water	04/22/16 09:02	
6041165-12	16042216-012 MW47	Water	04/22/16 11:35	
6041165-13	16042216-013 MW49	Water	04/22/16 09:32	
6041165-14	16042216-014 MW48	Water	04/22/16 09:29	
6041165-15	16042216-015 MW50	Water	04/22/16 09:20	
6041165-16	16042216-016 MW10R	Water	04/22/16 11:30	
6041165-17	16042216-017 MW43	Water	04/22/16 10:37	
6041165-18	16042216-018 MW42	Water	04/22/16 10:53	
6041165-19	16042216-019 MW45	Water	04/22/16 11:40	

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Rogers & Callcott ENVIRONMENTAL

Phase Separation Science, Inc.		Project:	Routine
6630 Baltimore National Pike		Work Order:	6041165
Baltimore, MD 21228		Reported:	05/17/16 14:40

Sample Data

Sample Number 6041165-11
Sample Description 16042216-011 MW17 collected on 04/22/16 09:02

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	ND	1.40	mg/L	1.00	05/03/16 08:00	SM 5540D-2011		SGM	B6E0661

Sample Number 6041165-12
Sample Description 16042216-012 MW47 collected on 04/22/16 11:35

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	**9.19**	4.66	mg/L	3.33	05/03/16 15:42	SM 5540D-2011		SGM	B6E0661

Sample Number 6041165-13
Sample Description 16042216-013 MW49 collected on 04/22/16 09:32

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	ND	1.40	mg/L	1.00	05/04/16 11:23	SM 5540D-2011		SGM	B6E0661

Sample Number 6041165-14
Sample Description 16042216-014 MW48 collected on 04/22/16 09:29

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	ND	1.40	mg/L	1.00	05/04/16 15:07	SM 5540D-2011		SGM	B6E0661

Sample Number 6041165-15
Sample Description 16042216-015 MW50 collected on 04/22/16 09:20

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	ND	1.40	mg/L	1.00	05/05/16 10:50	SM 5540D-2011		SGM	B6E0661

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Rogers & Callcott ENVIRONMENTAL

Phase Separation Science, Inc.		Project:	Routine
6630 Baltimore National Pike		Work Order:	6041165
Baltimore, MD 21228		Reported:	05/17/16 14:40

Sample Number 6041165-16
Sample Description 16042216-016 MW10R collected on 04/22/16 11:30

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	**8.52**	1.40	mg/L	1.00	05/05/16 12:45	SM 5540D-2011		SGM	B6E0661

Sample Number 6041165-17
Sample Description 16042216-017 MW43 collected on 04/22/16 10:37

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	**7.96**	1.40	mg/L	1.00	05/09/16 09:35	SM 5540D-2011	P	SGM	B6E0661

Sample Number 6041165-18
Sample Description 16042216-018 MW42 collected on 04/22/16 10:53

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	**14.4**	3.50	mg/L	2.50	05/09/16 10:30	SM 5540D-2011		SGM	B6E0661

Sample Number 6041165-19
Sample Description 16042216-019 MW45 collected on 04/22/16 11:40

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	**15.7**	3.50	mg/L	2.50	05/09/16 10:50	SM 5540D-2011		SGM	B6E0661

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Data Qualifiers and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not reported
P	The RPD between the sample / duplicate or matrix spike / spike duplicate was not within control limits.

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6041165

Chain of Custody Form for Subcontracted Analyses

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

For Questions or issues please contact: Lynn Jackson

W.O. No. : **16042216**
P.O. No. :
Project Number : N/A
Report To LOD : No

Report Due On :04/29/16 05:00

Samples Transferred To:
Rogers & Callcott Environmental
PO Box 5655
Greenville, SC 29606

Shipping address is 426 Fairforest Way Greenville,
Phone : 1-866-805-9596

	Lab Sample ID	Field Sample ID	Date Sampled	Time Sampled	Matrix	Analyses Required	Method	Type of Container	Preservative
01	16042216-001	MW 14	04/22/16	11:20	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
02	16042216-002	MW 9	04/22/16	11:10	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
03	16042216-003	MW 40	04/22/16	09:42	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
04	16042216-004	MW 11	04/22/16	10:00	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
05	16042216-005	MW 41	04/22/16	10:02	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
06	16042216-006	MW 3	04/22/16	10:12	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
07	16042216-007	MW 4	04/22/16	10:15	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
08	16042216-008	MW 2	04/22/16	10:24	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
09	16042216-009	MW 1	04/22/16	10:26	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
10	16042216-010	MW 31R	04/22/16	11:50	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
11	16042216-011	MW 17	04/22/16	09:02	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
12	16042216-012	MW 47	04/22/16	11:35	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
13	16042216-013	MW 49	04/22/16	09:32	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
14	16042216-014	MW 48	04/22/16	09:29	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
15	16042216-015	MW 50	04/22/16	09:20	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
16	16042216-016	MW 10R	04/22/16	11:30	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
17	16042216-017	MW 43	04/22/16	10:37	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
18	16042216-018	MW 42	04/22/16	10:53	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
19	16042216-019	MW 45	04/22/16	11:40	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
20	16042216-020	MW 46	04/22/16	10:55	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
21	16042216-021	MW 5	04/22/16	11:05	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
22	16042216-022	MW 37	04/22/16	09:40	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
23	16042216-023	MW 44	04/22/16	11:03	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL

6041165

Chain of Custody Form for Subcontracted Analyses

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

W.O. No. : **16042216**
P.O. No. :
Project Number : N/A
Report To LOD : No

Samples Transferred To:
Rogers & Callcott Environmental
PO Box 5655
Greenville, SC 29606

Shipping address is 426 Fairforest Way Greenville,
Phone : 1-866-805-9596

Lab Sample ID	Field Sample ID	Date Sampled	Time Sampled	Matrix	Analyses Required	Method	Type of Container	Preservative
24 16042216-024	MW 13	04/22/16	09:00	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
25 16042216-025	MW 32	04/22/16	10:35	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
26 16042216-026	MW 15	04/22/16	09:10	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL

Data Deliverables Required: COA

Perform Q.C. on Sample :

Send Report Attn : reporting@phaseonline.com

Send InvoiceAttn : invoicing@phaseonline.com

Airbill No.: Carrier : UPS

Condition Upon Receipt :

Comments :

Samples Relinquished By : UPS Date : 4/20/16 Time: 0930 Samples Received By :

Samples Relinquished By: Date : Time : Samples Received By:

Samples Relinquished By: Date: Time: Samples Received By:

Coolers rec'd @ 1.0°C, 1.8°C, & 0.8°C

FOR LAB USE ONLY

Rogers & Callcott ENVIRONMENTAL

Sample Receipt Verification

Client: Phase

Date Received: 4.26.16

Work Order: 6041165

Carrier Name: Client FedEx UPS US Mail Courier Field Services Other:

Tracking Number: 1Z2313E4016019995 2 1.0 / 1Z2313E4015872033 8 1.8 / 1Z2313E4015974514 0 0.8

Receipt Criteria	Yes	No	NA	Comments
Shipping container / cooler intact?	X			Damaged Leaking Other:
Custody seals intact?			X	
COC included with samples?	X			
COC signed when relinquished and received?	X			
Sample bottles intact?	X			Damaged Leaking Other:
Sample ID on COC agree with label on bottle(s)?	X			
Date / time on COC agree with label on bottle(s)?	X			
Number of bottles on COC agrees with number of bottles received?	X			
Samples received within holding time?			X	no published holding time
Sample volume sufficient for analysis?	X			
VOA vials free of headspace (<6mm bubble)?			X	
Samples cooled? Temp at receipt recorded on COC; Temp measured with IR thermometer - SN: 97050067	X			Ice Cold Packs Dry Ice None
Samples requiring pH preservation at proper pH? Note: Samples for metals analysis may be preserved upon receipt in the lab.			X	
Samples dechlorinated for parameters requiring chlorine removal at the time of sample collection?			X	

If in-house preservation used – record Lot #			
HCL		H_3PO_4	
H_2SO_4		NaOH	
HNO_3		Other	

Comments:

Were non-conformance issues noted at sample receipt? Yes or No

Non-Conformance issue other than noted above:

Revised July 2014

Completed by: SP

Rogers & Callcott ENVIRONMENTAL

Laboratory Services

Laboratory Report

Client	Phase Separation Science, Inc. Lynn Jackson 6630 Baltimore National Pike Baltimore, MD 21228	**Project:** **Work Order:** **Received:**	Routine 6041165 04/26/2016 09:30

Dear Client:

Rogers and Callcott appreciates the opportunity to be of service to you. The attached laboratory services report includes analytical results and chain of custody for samples that were received on April 26, 2016. Rogers and Callcott maintains a formal QA/QC program. Unless otherwise noted, all analyses performed under NELAP certification have complied with all the requirements for the TNI standard. The analyses met the QA/QC confidence interval for each test method unless otherwise qualified. Estimated uncertainty is available upon request.

Privileged / Confidential information may be contained in this report and is intended only for the use of the addressee. If you are not the addressee, or the person responsible for delivering to the person addressed, you may not copy or deliver this message to anyone else. If you receive this message by mistake, please notify Rogers and Callcott immediately.

We strive to provide excellent service to our clients. Please contact Melissa Riddle, your Project Manager, at melissa.riddle@rogersandcallcott.com or (864)-232-1556 if you have any questions about this report.

Report Approved By:

Melissa M Riddle

Melissa Riddle
Project Manager

PO Box 5655 | Greenville, SC 29606 | 426 Fairforest Way | Greenville, SC 29607 | main 864.232.1556 | fax 864.232.6140 rogersandcallcott.com
an employee-owned company

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Rogers & Callcott ENVIRONMENTAL

Certificate of Analysis

South Carolina Greenville Laboratory Identification 23105
South Carolina Columbia Laboratory Identification 40572
North Carolina Laboratory Certification Number 27
North Carolina Drinking Water Lab Number 45710
NELAP Utah Certificate Number SC000042014-1
Georgia Drinking Water Lab ID 880

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

Project: Routine
Work Order: 6041165
Received: 04/26/2016 09:30

Sample Number	Sample Description	Matrix	Sampled	Type
6041165-20	16042216-020 MW46	Water	04/22/16 10:55	
6041165-21	16042216-021 MW5	Water	04/22/16 11:05	
6041165-22	16042216-022 MW37	Water	04/22/16 09:40	
6041165-23	16042216-023 MW44	Water	04/22/16 11:03	
6041165-24	16042216-024 MW13	Water	04/22/16 09:00	
6041165-25	16042216-025 MW32	Water	04/22/16 10:35	
6041165-26	16042216-026 MW15	Water	04/22/16 09:10	

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Rogers & Callcott ENVIRONMENTAL

Phase Separation Science, Inc.		Project:	Routine
6630 Baltimore National Pike		Work Order:	6041165
Baltimore, MD 21228		Reported:	05/27/16 10:15

Sample Data

Sample Number 6041165-20
Sample Description 16042216-020 MW46 collected on 04/22/16 10:55

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	**23.4**	3.50	mg/L	2.50	05/11/16 14:00	SM 5540D-2011		SGM	B6E1097

Sample Number 6041165-21
Sample Description 16042216-021 MW5 collected on 04/22/16 11:05

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	**2.16**	1.40	mg/L	1.00	05/18/16 10:00	SM 5540D-2011		SGM	B6E1097

Sample Number 6041165-22
Sample Description 16042216-022 MW37 collected on 04/22/16 09:40

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	ND	1.40	mg/L	1.00	05/18/16 11:00	SM 5540D-2011		SGM	B6E1097

Sample Number 6041165-23
Sample Description 16042216-023 MW44 collected on 04/22/16 11:03

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	ND	1.40	mg/L	1.00	05/23/16 10:00	SM 5540D-2011		SGM	B6E1097

Sample Number 6041165-24
Sample Description 16042216-024 MW13 collected on 04/22/16 09:00

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	**53.8**	8.75	mg/L	6.25	05/23/16 12:50	SM 5540D-2011		SGM	B6E1097

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Rogers & Callcott ENVIRONMENTAL

Phase Separation Science, Inc.		Project:	Routine
6630 Baltimore National Pike		Work Order:	6041165
Baltimore, MD 21228		Reported:	05/27/16 10:15

Sample Number 6041165-25
Sample Description 16042216-025 MW32 collected on 04/22/16 10:35

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	**1.51**	1.40	mg/L	1.00	05/23/16 13:15	SM 5540D-2011	S1	SGM	B6E1097

Sample Number 6041165-26
Sample Description 16042216-026 MW15 collected on 04/22/16 09:10

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	ND	1.40	mg/L	1.00	05/23/16 13:50	SM 5540D-2011		SGM	B6E1097

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Data Qualifiers and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not reported
S1	The matrix spike and / or the matrix spike duplicate sample recovery was not within control limits due to matrix interference. The Laboratory Control Sample (LCS) was within control limits.

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6041165

Chain of Custody Form for Subcontracted Analyses

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

For Questions or issues please contact: Lynn Jackson

W.O. No. : **16042216**
P.O. No. :
Project Number : N/A
Report To LOD : No

Report Due On :04/29/16 05:00

Samples Transferred To:
Rogers & Callcott Environmental
PO Box 5655
Greenville, SC 29606

Shipping address is 426 Fairforest Way Greenville,
Phone : 1-866-805-9596

	Lab Sample ID	Field Sample ID	Date Sampled	Time Sampled	Matrix	Analyses Required	Method	Type of Container	Preservative
01	16042216-001	MW 14	04/22/16	11:20	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
02	16042216-002	MW 9	04/22/16	11:10	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
03	16042216-003	MW 40	04/22/16	09:42	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
04	16042216-004	MW 11	04/22/16	10:00	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
05	16042216-005	MW 41	04/22/16	10:02	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
06	16042216-006	MW 3	04/22/16	10:12	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
07	16042216-007	MW 4	04/22/16	10:15	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
08	16042216-008	MW 2	04/22/16	10:24	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
09	16042216-009	MW 1	04/22/16	10:26	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
10	16042216-010	MW 31R	04/22/16	11:50	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
11	16042216-011	MW 17	04/22/16	09:02	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
12	16042216-012	MW 47	04/22/16	11:35	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
13	16042216-013	MW 49	04/22/16	09:32	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
14	16042216-014	MW 48	04/22/16	09:29	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
15	16042216-015	MW 50	04/22/16	09:20	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
16	16042216-016	MW 10R	04/22/16	11:30	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
17	16042216-017	MW 43	04/22/16	10:37	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
18	16042216-018	MW 42	04/22/16	10:53	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
19	16042216-019	MW 45	04/22/16	11:40	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
20	16042216-020	MW 46	04/22/16	10:55	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
21	16042216-021	MW 5	04/22/16	11:05	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
22	16042216-022	MW 37	04/22/16	09:40	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
23	16042216-023	MW 44	04/22/16	11:03	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL

6041165

Chain of Custody Form for Subcontracted Analyses

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

W.O. No. : **16042216**
P.O. No. :
Project Number : N/A
Report To LOD : No

Samples Transferred To:
Rogers & Callcott Environmental
PO Box 5655
Greenville, SC 29606

Shipping address is 426 Fairforest Way Greenville,
Phone : 1-866-805-9596

Lab Sample ID	Field Sample ID	Date Sampled	Time Sampled	Matrix	Analyses Required	Method	Type of Container	Preservative
24 16042216-024	MW 13	04/22/16	09:00	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
25 16042216-025	MW 32	04/22/16	10:35	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
26 16042216-026	MW 15	04/22/16	09:10	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL

Data Deliverables Required: COA

Perform Q.C. on Sample :

Send Report Attn : reporting@phaseonline.com

Send InvoiceAttn : invoicing@phaseonline.com

Airbill No.: Carrier : UPS

Condition Upon Receipt :

Comments :

Samples Relinquished By : UPS Date : 4/26/16 Time: 0930 Samples Received By :

Samples Relinquished By: Date : Time : Samples Received By:

Samples Relinquished By: Date: Time: Samples Received By:

Coolers rec'd @ 1.0°C, 1.8°C, & 0.8°C

FOR LAB USE ONLY

Rogers & Callcott ENVIRONMENTAL

Sample Receipt Verification

Client: Phase

Date Received: 4.26.16

Work Order: 6041165

Carrier Name: Client FedEx UPS US Mail Courier Field Services Other:

Tracking Number: 1Z2313E4016019995 2 1.0 / 1Z2313E4015872033 8 1.8 / 1Z2313E4015974514 0 0.8

Receipt Criteria	Yes	No	NA	Comments
Shipping container / cooler intact?	X			Damaged Leaking Other:
Custody seals intact?			X	
COC included with samples?	X			
COC signed when relinquished and received?	X			
Sample bottles intact?	X			Damaged Leaking Other:
Sample ID on COC agree with label on bottle(s)?	X			
Date / time on COC agree with label on bottle(s)?	X			
Number of bottles on COC agrees with number of bottles received?	X			
Samples received within holding time?			X	no published holding time
Sample volume sufficient for analysis?	X			
VOA vials free of headspace (<6mm bubble)?			X	
Samples cooled? Temp at receipt recorded on COC; Temp measured with IR thermometer - SN: 97050067	X			Ice Cold Packs Dry Ice None
Samples requiring pH preservation at proper pH? Note: Samples for metals analysis may be preserved upon receipt in the lab.			X	
Samples dechlorinated for parameters requiring chlorine removal at the time of sample collection?			X	

If in-house preservation used – record Lot #			
HCL		H_3PO_4	
H_2SO_4		NaOH	
HNO_3		Other	

Comments:

Were non-conformance issues noted at sample receipt? Yes or No

Non-Conformance issue other than noted above:

Revised July 2014

Completed by: SP

Case Narrative Summary

Client Name: UMM Shore Regional Health Chestertown

Project Name: CRHC

Work Order Number(s): 16042216

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.

Matrix spike and matrix spike duplicate analyses may not be performed due to insufficient sample quantity. In these instances, a laboratory control sample and laboratory control sample duplicate are analyzed unless otherwise noted or specified in the method.

Sample Receipt:

All sample receipt conditions were acceptable.

Analyses associated with analyst code 4056 were performed by Rogers & Callcott Environmental - UT SC00004

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

SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

PHASE SEPARATION SCIENCE, INC.

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

PSS Work Order #: 16042216 PAGE 1 OF 3

*CLIENT: UMM *OFFICE LOC. Wilmington, DE
*PROJECT MGR. Ken Hannon *PHONE NO.: (302) 656-9600
EMAIL: khannon@brightfieldcorp.com FAX NO.: ( )
*PROJECT NAME: CRHC PROJECT NO.:
SITE LOCATION: Chestertown, MD P.O. NO.:
SAMPLER(S): M. Cooksey N. Bradley DW CERT NO.:

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

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) *: Surfactant via SM5540D	REMARKS
1	MW 14	4/24/16	1120	GW	1	G		X	
2	MW 9		1110					X	
3	MW 40		0942					X	
4	MW 11		1000					X	
5	MW 41		1002					X	
6	MW 3		1012					X	
7	MW 4		1015					X	
8	MW 2		1024					X	
9	MW 1		1026					X	
10	MW 31R		1150					X	

Relinquished By:	Date	Time	Received By:
(1)	4/24/16	1212	Dan Carter
(2) Dan Carter	4/22/16	1445	Thomas Way
(3)			
(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: 3
Custody Seal: ABJ
Ice Present: PRES Temp: 17.3°C
Shipping Carrier: TTE

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: UMM *OFFICE LOC. Wilmington, DE

*PROJECT MGR: Ken Hannon *PHONE NO.: (302) 656 9600

EMAIL: khannon@brightfieldtechnologies.com FAX NO.: ( )

*PROJECT NAME: CRHC PROJECT NO.:

SITE LOCATION: Chestertown, MD P.O. NO.:

SAMPLER(S): M. Crockett N. Buckley DW CERT NO.:

PSS Work Order #: 16042216 PAGE 2 OF 3

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) *: Sulfate/Nitrate SM 5540D	REMARKS
11	MW 17	4/22/16	0902	GW	1	G		X	
12	MW 47		1035					X	
13	MW 49		0932					X	
14	MW 48		0929					X	
15	MW 50		0920					X	
16	MW 10R		1130					X	
17	MW 43		1037					X	
18	MW 42		1055					X	
19	MW 45		1140					X	
20	MW 46		1055					X	

(5)

Relinquished By:	Date	Time	Received By:
(1)	4/22/16	1212	Dan Parks
(2) Dan Parks	04/22/16	1445	[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 3

Custody Seal: ABS

Ice Present: PRES Temp: 3.7°c

Shipping Carrier: TTE

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: UMM *OFFICE LOC. Wilmington, DE
*PROJECT MGR: Khanson *PHONE NO.: (302) 656-9600
EMAIL: Khannon@brightfieldinc.com FAX NO.: ( )
*PROJECT NAME: CRHC PROJECT NO.:
SITE LOCATION: Chestertown, MD P.O. NO.:
SAMPLER(S): M. Cousky, N. Bradley DW CERT NO.:

PSS Work Order #: 16042216 PAGE 3 OF 3

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	Analysis/ Method Required (3) * Surfactant via SM 5540D	REMARKS
21	MW 5	4/22/16	1105	GW	1	G		X	
22	MW 37	4/22/16	0940					X	
23	MW 44		1103					X	
24	MW 13		0900					X	
25	MW 32		1035					X	
26	MW 15		0910					X	

(5)

Relinquished By: (1)	Date	Time	Received By:
	4/22/16	1212	
Relinquished By: (2)	Date	Time	Received By:
	04/22/16	1445	
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: 3
Custody Seal: ABS
Ice Present: PRES Temp: 17.3°C
Shipping Carrier: TTE

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 #	16042216	**Received By**	Thomas Wingate
Client Name	UMM Shore Regional Health Chester	**Date Received**	04/22/2016 02:45:00 PM
Project Name	CRHC	**Delivered By**	Trans Time Express
Disposal Date	05/27/2016	**Tracking No**	Not Applicable
		Logged In By	Rachel Davis

Shipping Container(s)

No. of Coolers 1

		Ice	Present
Custody Seal(s) Intact?	N/A	Temp (deg C)	3
Seal(s) Signed / Dated?	N/A	Temp Blank Present	No
		Ice	Present
Custody Seal(s) Intact?	N/A	Temp (deg C)	7
Seal(s) Signed / Dated?	N/A	Temp Blank Present	No

Documentation

COC agrees with sample labels?	Yes	Sampler Name	Not Provided
Chain of Custody	Yes		N/A

Sample Container

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

Total No. of Samples Received 26

Total No. of Containers Received 26

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

Phase Separation Science, Inc

Sample Receipt Checklist

Work Order #	16042216	**Received By**	Thomas Wingate
Client Name	UMM Shore Regional Health Chester	**Date Received**	04/22/2016 02:45:00 PM
Project Name	CRHC	**Delivered By**	Trans Time Express
Disposal Date	05/27/2016	**Tracking No**	Not Applicable
		Logged In By	Rachel Davis

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.

Samples Inspected/Checklist Completed By: Rachel Davis — Date: 04/22/2016

PM Review and Approval: Lynn Jackson — Date: 04/25/2016

Analytical Report for

UMM Shore Regional Health Chestertown

Certificate of Analysis No.: 16052415

Project Manager: Ken Hannon

Project Name : CRHC

Project Location: Chestertown, MD

June 24, 2016

Phase Separation Science, Inc.

6630 Baltimore National Pike
Baltimore, MD 21228
Phone: (410) 747-8770
Fax: (410) 788-8723

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PHASE SEPARATION SCIENCE, INC.

June 24, 2016

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

Reference: PSS Work Order(s) No: **16052415**
Project Name: CRHC
Project Location: Chestertown, MD

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 **16052415**.

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 28, 2016, with the exception of air canisters which are cleaned immediately following analysis. 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,

Cathy Thompson
QA Officer

Sample Summary

Client Name: UMM Shore Regional Health Chestertown

Project Name: CRHC

Work Order Number(s): 16052415

The following samples were received under chain of custody by Phase Separation Science (PSS) on 05/24/2016 at 03:20 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
16052415-001	MW 16	GROUND WATER	05/24/16 09:20
16052415-002	MW 15	GROUND WATER	05/24/16 09:30
16052415-003	MW 19	GROUND WATER	05/24/16 09:40
16052415-004	MW 20	GROUND WATER	05/24/16 09:50
16052415-005	MW 35	GROUND WATER	05/24/16 10:00
16052415-006	MW 34	GROUND WATER	05/24/16 10:10
16052415-007	MW 24	GROUND WATER	05/24/16 10:20
16052415-008	MW 48	GROUND WATER	05/24/16 10:35
16052415-009	MW 50	GROUND WATER	05/24/16 10:50
16052415-010	MW 33	GROUND WATER	05/24/16 11:10
16052415-011	MW 49	GROUND WATER	05/24/16 11:20
16052415-012	MW 1	GROUND WATER	05/24/16 11:30
16052415-013	MW 2	GROUND WATER	05/24/16 11:40
16052415-014	MW 4	GROUND WATER	05/24/16 11:50
16052415-015	MW 1	GROUND WATER	05/24/16 11:30
16052415-016	MW 2	GROUND WATER	05/24/16 11:40
16052415-017	MW 4	GROUND WATER	05/24/16 11:50

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)].
7. Method 180.1, The Determination of Turbidity by Nephelometry, recommends samples over 40 NTU be diluted until the turbidity falls below 40 units. Routine samples over 40 NTU may not be diluted as long as the data quality objectives are not affected.
8. Alkalinity results analyzed by EPA 310.2 that are reported by dilution are estimated and are not in compliance with method requirements.

Sample Summary

Client Name: UMM Shore Regional Health Chestertown
Project Name: CRHC

Work Order Number(s): 16052415

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 MDL.
MDL	This is the Laboratory Method Detection Limit which is equivalent to the Limit of Detection (LOD). The LOD is an estimate of the minimum amount of a substance that an analytical process can reliably detect. This value will remain constant across multiple similar instrumentation and among different analysts. 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

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BALTIMORE, MD 21228
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FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS
No: 16052415
UMM Shore Regional Health Chestertown, Chestertown, MD
June 24, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 16 **Date/Time Sampled: 05/24/2016 09:20** **PSS Sample ID: 16052415-001**
Matrix: GROUND WATER **Date/Time Received: 05/24/2016 15:20**

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	05/25/16	05/27/16 13:18	1055

Sample ID: MW 15 **Date/Time Sampled: 05/24/2016 09:30** **PSS Sample ID: 16052415-002**
Matrix: GROUND WATER **Date/Time Received: 05/24/2016 15:20**

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	05/25/16	05/27/16 13:43	1055

Sample ID: MW 19 **Date/Time Sampled: 05/24/2016 09:40** **PSS Sample ID: 16052415-003**
Matrix: GROUND WATER **Date/Time Received: 05/24/2016 15:20**

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	05/25/16	05/27/16 14:08	1055

Sample ID: MW 20 **Date/Time Sampled: 05/24/2016 09:50** **PSS Sample ID: 16052415-004**
Matrix: GROUND WATER **Date/Time Received: 05/24/2016 15:20**

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)	**6.5**	mg/L	0.10		1	05/25/16	05/27/16 14:33	1055

Sample ID: MW 35 **Date/Time Sampled: 05/24/2016 10:00** **PSS Sample ID: 16052415-005**
Matrix: GROUND WATER **Date/Time Received: 05/24/2016 15:20**

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)	**0.10**	mg/L	0.10		1	05/25/16	05/27/16 14:58	1055

Sample ID: MW 34 **Date/Time Sampled: 05/24/2016 10:10** **PSS Sample ID: 16052415-006**
Matrix: GROUND WATER **Date/Time Received: 05/24/2016 15:20**

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	05/25/16	05/27/16 15:23	1055

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ROUTE 40 WEST
BALTIMORE, MD 21228
410-747-8770
800-932-9047
FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS
No: 16052415
UMM Shore Regional Health Chestertown, Chestertown, MD
June 24, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 24 **Date/Time Sampled: 05/24/2016 10:20** **PSS Sample ID: 16052415-007**
Matrix: GROUND WATER **Date/Time Received: 05/24/2016 15:20**

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)	**0.13**	mg/L	0.10		1	05/25/16	05/27/16 15:48	1055

Sample ID: MW 48 **Date/Time Sampled: 05/24/2016 10:35** **PSS Sample ID: 16052415-008**
Matrix: GROUND WATER **Date/Time Received: 05/24/2016 15:20**

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	05/25/16	05/27/16 16:13	1055

Sample ID: MW 50 **Date/Time Sampled: 05/24/2016 10:50** **PSS Sample ID: 16052415-009**
Matrix: GROUND WATER **Date/Time Received: 05/24/2016 15:20**

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)	**0.12**	mg/L	0.11		1	05/25/16	05/27/16 16:38	1055

Sample ID: MW 33 **Date/Time Sampled: 05/24/2016 11:10** **PSS Sample ID: 16052415-010**
Matrix: GROUND WATER **Date/Time Received: 05/24/2016 15:20**

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	05/25/16	05/27/16 17:03	1055

Sample ID: MW 49 **Date/Time Sampled: 05/24/2016 11:20** **PSS Sample ID: 16052415-011**
Matrix: GROUND WATER **Date/Time Received: 05/24/2016 15:20**

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)	**0.10**	mg/L	0.10		1	05/25/16	05/27/16 17:28	1055

Sample ID: MW 1 **Date/Time Sampled: 05/24/2016 11:30** **PSS Sample ID: 16052415-012**
Matrix: GROUND WATER **Date/Time Received: 05/24/2016 15:20**

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)	**2.3**	mg/L	0.10		1	05/25/16	05/27/16 17:53	1055

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ROUTE 40 WEST
BALTIMORE, MD 21228
410-747-8770
800-932-9047
FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS
No: 16052415
UMM Shore Regional Health Chestertown, Chestertown, MD
June 24, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 2 **Date/Time Sampled: 05/24/2016 11:40** **PSS Sample ID: 16052415-013**
Matrix: GROUND WATER **Date/Time Received: 05/24/2016 15:20**

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)	**3.5**	mg/L	0.10		1	05/25/16	05/27/16 18:18	1055

Sample ID: MW 4 **Date/Time Sampled: 05/24/2016 11:50** **PSS Sample ID: 16052415-014**
Matrix: GROUND WATER **Date/Time Received: 05/24/2016 15:20**

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)	**9.5**	mg/L	0.10		1	05/25/16	05/27/16 18:18	1055

Rogers & Callcott ENVIRONMENTAL

Laboratory Services

Laboratory Report

Client	Phase Separation Science, Inc. Lynn Jackson 6630 Baltimore National Pike Baltimore, MD 21228	**Project:** **Work Order:** **Received:**	Routine 6051143 05/26/2016 09:30

Dear Client:

Rogers and Callcott appreciates the opportunity to be of service to you. The attached laboratory services report includes analytical results and chain of custody for samples that were received on May 26, 2016. Rogers and Callcott maintains a formal QA/QC program. Unless otherwise noted, all analyses performed under NELAP certification have complied with all the requirements for the TNI standard. The analyses met the QA/QC confidence interval for each test method unless otherwise qualified. Estimated uncertainty is available upon request.

Privileged / Confidential information may be contained in this report and is intended only for the use of the addressee. If you are not the addressee, or the person responsible for delivering to the person addressed, you may not copy or deliver this message to anyone else. If you receive this message by mistake, please notify Rogers and Callcott immediately.

We strive to provide excellent service to our clients. Please contact Melissa Riddle, your Project Manager, at melissa.riddle@rogersandcallcott.com or (864)-232-1556 if you have any questions about this report.

Report Approved By:

Melissa M Riddle

Melissa Riddle
Project Manager

PO Box 5655 | Greenville, SC 29606 | 426 Fairforest Way | Greenville, SC 29607 | main 864.232.1556 | fax 864.232.6140 rogersandcallcott.com
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Rogers & Callcott ENVIRONMENTAL

Certificate of Analysis

South Carolina Greenville Laboratory Identification 23105
South Carolina Columbia Laboratory Identification 40572
North Carolina Laboratory Certification Number 27
North Carolina Drinking Water Lab Number 45710
NELAP Utah Certificate Number SC000042014-1
Georgia Drinking Water Lab ID 880

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

Project: Routine
Work Order: 6051143
Received: 05/26/2016 09:30

Sample Number	Sample Description	Matrix	Sampled	Type
6051143-01	16052415-015 MW1	Water	05/24/16 11:30	
6051143-02	16052415-016 MW2	Water	05/24/16 11:40	
6051143-03	16052415-017 MW4	Water	05/24/16 11:50	

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Rogers & Callcott ENVIRONMENTAL

Phase Separation Science, Inc.		Project:	Routine
6630 Baltimore National Pike		Work Order:	6051143
Baltimore, MD 21228		Reported:	06/24/16 07:53

Sample Data

Sample Number 6051143-01
Sample Description 16052415-015 MW1 collected on 05/24/16 11:30

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	ND	1.40	mg/L	1.00	06/13/16 15:45	SM 5540D-2011		SGM	B6F0912

Sample Number 6051143-02
Sample Description 16052415-016 MW2 collected on 05/24/16 11:40

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	**7.20**	1.40	mg/L	1.00	06/17/16 14:15	SM 5540D-2011		SGM	B6F0912

Sample Number 6051143-03
Sample Description 16052415-017 MW4 collected on 05/24/16 11:50

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	**11.1**	3.50	mg/L	2.50	06/17/16 14:30	SM 5540D-2011		SGM	B6F0912

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Data Qualifiers and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not reported

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W051143

Chain of Custody Form for Subcontracted Analyses

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

For Questions or issues please contact: Lynn Jackson

W.O. No. : **16052415**
P.O. No. :
Project Number : N/A
Report To LOD : No

Report Due On :06/01/16 05:00

Samples Transferred To:
Rogers & Callcott Environmental
PO Box 5655
Greenville, SC 29606

Shipping address is 426 Fairforest Way Greenville,
Phone : 1-866-805-9596

	Lab Sample ID	Field Sample ID	Date Sampled	Time Sampled	Matrix	Analyses Required	Method	Type of Container	Preservative
-01	16052415-015	MW 1	05/24/16	11:30	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
-02	16052415-016	MW 2	05/24/16	11:40	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
-03	16052415-017	MW 4	05/24/16	11:50	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL

Data Deliverables Required: COA

Perform Q.C. on Sample :

Send Report Attn : reporting@phaseonline.com

Send InvoiceAttn : invoicing@phaseonline.com

Airbill No.:

Carrier : UPS

Condition Upon Receipt : 0.4°C

Comments :

Samples Relinquished By : Date : 5/24/16 Time: 0930 Samples Received By : Chpoole via UPS

Samples Relinquished By: Date : Time : Samples Received By:

Samples Relinquished By: Date: Time: Samples Received By:

Rogers & Callcott
ENVIRONMENTAL

Sample Receipt Verification

Client: Phase

Date Received: 5/26/14

Work Order: 1405143

Carrier Name: Client FedEx UPS US Mail Courier Field Services Other:

Tracking Number: 1Z 231 3E4 01 5957 7153

Receipt Criteria	Yes	No	NA	Comments
Shipping container / cooler intact?	X			Damaged Leaking Other:
Custody seals intact?			X	
COC included with samples?	X			
COC signed when relinquished and received? cpp 5/26/14	X	X		Chain not signed when Relinquished
Sample bottles intact?	X			Damaged Leaking Other:
Sample ID on COC agree with label on bottle(s)?	X			
Date / time on COC agree with label on bottle(s)?	X			
Number of bottles on COC agrees with number of bottles received?	X			
Samples received within holding time?	X			
Sample volume sufficient for analysis?	X			
VOA vials free of headspace (<6mm bubble)?			X	
Samples cooled? Temp at receipt recorded on COC; Temp measured with IR thermometer - SN: 97050067	X			Ice Cold Packs Dry Ice None
Samples requiring pH preservation at proper pH? Note: Samples for metals analysis may be preserved upon receipt in the lab.			X	
Samples dechlorinated for parameters requiring chlorine removal at the time of sample collection?			X	

If in-house preservation used – record Lot #			
HCL		H_3PO_4	
H_2SO_4		NaOH	
HNO_3		Other	

Comments:

Were non-conformance issues noted at sample receipt? Yes or No

Non-Conformance issue other than noted above:

Revised July 2014

Completed by: CPP

Case Narrative Summary

Client Name: UMM Shore Regional Health Chestertown

Project Name: CRHC

Work Order Number(s): 16052415

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.

Matrix spike and matrix spike duplicate analyses may not be performed due to insufficient sample quantity. In these instances, a laboratory control sample and laboratory control sample duplicate are analyzed unless otherwise noted or specified in the method.

Sample Receipt:

All sample receipt conditions were acceptable.

Analyses associated with analyst code 4056 were performed by Rogers & Callcott Environmental - UT SC00004

Analytical:

Total Petroleum Hydrocarbons - DRO

Batch: 132972

Surrogate exceedances identified; see surrogate summary form.

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): 16052415
Report Prepared For: UMM Shore Regional Health Chestertown, Cl
Project Name: Chester River Hospital Center-CRHC
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 16	Initial	16052415-001	1055	W	60970	132972	05/24/2016	05/25/2016 10:55	05/27/2016 13:18
	MW 15	Initial	16052415-002	1055	W	60970	132972	05/24/2016	05/25/2016 10:55	05/27/2016 13:43
	MW 19	Initial	16052415-003	1055	W	60970	132972	05/24/2016	05/25/2016 10:55	05/27/2016 14:08
	MW 20	Initial	16052415-004	1055	W	60970	132972	05/24/2016	05/25/2016 10:55	05/27/2016 14:33
	MW 35	Initial	16052415-005	1055	W	60970	132972	05/24/2016	05/25/2016 10:55	05/27/2016 14:58
	MW 34	Initial	16052415-006	1055	W	60970	132972	05/24/2016	05/25/2016 10:55	05/27/2016 15:23
	MW 24	Initial	16052415-007	1055	W	60970	132972	05/24/2016	05/25/2016 10:55	05/27/2016 15:48
	MW 48	Initial	16052415-008	1055	W	60970	132972	05/24/2016	05/25/2016 10:55	05/27/2016 16:13
	MW 50	Initial	16052415-009	1055	W	60970	132972	05/24/2016	05/25/2016 10:55	05/27/2016 16:38
	MW 33	Initial	16052415-010	1055	W	60970	132972	05/24/2016	05/25/2016 10:55	05/27/2016 17:03
	MW 49	Initial	16052415-011	1055	W	60970	132972	05/24/2016	05/25/2016 10:55	05/27/2016 17:28
	MW 1	Initial	16052415-012	1055	W	60970	132972	05/24/2016	05/25/2016 10:55	05/27/2016 17:53
	MW 2	Initial	16052415-013	1055	W	60970	132972	05/24/2016	05/25/2016 10:55	05/27/2016 18:18
	MW 4	Initial	16052415-014	1055	W	60970	132972	05/24/2016	05/25/2016 10:55	05/27/2016 18:18
	60970-1-BKS	BKS	60970-1-BKS	1055	W	60970	132972	--------	05/25/2016 10:55	05/27/2016 00:58
	60970-1-BLK	BLK	60970-1-BLK	1055	W	60970	132972	--------	05/25/2016 10:55	05/27/2016 00:33
	60970-1-BSD	BSD	60970-1-BSD	1055	W	60970	132972	--------	05/25/2016 10:55	05/27/2016 01:23

PHASE SEPARATION SCIENCE, INC.

QC Summary 16052415

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132972 Matrix: Ground Water Date Prep: 05/25/2016
PSS Sample ID: 16052415-001

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	86		33-95	%	05/27/16 13:18

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132972 Matrix: Ground Water Date Prep: 05/25/2016
PSS Sample ID: 16052415-002

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	88		33-95	%	05/27/16 13:43

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132972 Matrix: Ground Water Date Prep: 05/25/2016
PSS Sample ID: 16052415-003

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	89		33-95	%	05/27/16 14:08

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132972 Matrix: Ground Water Date Prep: 05/25/2016
PSS Sample ID: 16052415-004

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	86		33-95	%	05/27/16 14:33

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132972 Matrix: Ground Water Date Prep: 05/25/2016
PSS Sample ID: 16052415-005

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	90		33-95	%	05/27/16 14:58

PHASE SEPARATION SCIENCE, INC.

QC Summary 16052415

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132972 Matrix: Ground Water Date Prep: 05/25/2016
PSS Sample ID: 16052415-006

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	82		33-95	%	05/27/16 15:23

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132972 Matrix: Ground Water Date Prep: 05/25/2016
PSS Sample ID: 16052415-007

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	88		33-95	%	05/27/16 15:48

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132972 Matrix: Ground Water Date Prep: 05/25/2016
PSS Sample ID: 16052415-008

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	101	*	33-95	%	05/27/16 16:13

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132972 Matrix: Ground Water Date Prep: 05/25/2016
PSS Sample ID: 16052415-009

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	91		33-95	%	05/27/16 16:38

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132972 Matrix: Ground Water Date Prep: 05/25/2016
PSS Sample ID: 16052415-010

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	92		33-95	%	05/27/16 17:03

PHASE SEPARATION SCIENCE, INC.

QC Summary 16052415

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132972 Matrix: Ground Water Date Prep: 05/25/2016
PSS Sample ID: 16052415-011

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	94		33-95	%	05/27/16 17:28

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132972 Matrix: Ground Water Date Prep: 05/25/2016
PSS Sample ID: 16052415-012

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	100	*	33-95	%	05/27/16 17:53

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132972 Matrix: Ground Water Date Prep: 05/25/2016
PSS Sample ID: 16052415-013

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	81		33-95	%	05/27/16 18:18

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132972 Matrix: Ground Water Date Prep: 05/25/2016
PSS Sample ID: 16052415-014

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	103	*	33-95	%	05/27/16 18:18

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 16052415

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132972 Matrix: Water Date Prep: 05/25/16
MB Sample Id: 60970-1-BLK LCS Sample Id: 60970-1-BKS LCSD Sample Id: 60970-1-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	1.044	104	0.9528	95	47-106	9	20	mg/L	05/27/16 00:58	

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	LCSD Result	LCSD Flag	Limits	Units	Analysis Date
o-Terphenyl	92		93		85		33-95	%	05/27/16 00:58

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: OMM *OFFICE LOC. Wilmington, DE
*PROJECT MGR: Ken Hannon *PHONE NO.: (302) 656 9600
EMAIL: khanna@brightfield.com FAX NO.: (302) 656 9700
*PROJECT NAME: CRHC PROJECT NO.:
SITE LOCATION: Chestertown, MD P.O. NO.:
SAMPLER(S): MC Lackey J. Thompson DW CERT NO.:

PSS Work Order #: 16052415 PAGE 1 OF 3

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 via 8015	REMARKS
1	MW 16	5/24/16	0920	GW	1	G		X	
2	MW 15		0930					X	
3	MW 19		0940					X	
4	MW 20		0950					X	
5	MW 35		1000					X	
6	MW 34		1010					X	
7	MW 24		1020					X	
8	MW 48		1035					X	
9	MW 50		1050					X	
10	MW 33		1110					X	

(5)

Relinquished By:	Date	Time	Received By:
(1) TTE	5/24/16	1200	TTE 123
(2) TTE	5/24	1520	[signature]
(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: 3
Custody Seal: ABS
Ice Present: PRES Temp: 5.1, 6°C
Shipping Carrier: TTE

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: UMM *OFFICE LOC. Wilmington, DE

*PROJECT MGR: Ken Hanna *PHONE NO.: (302) 656-9600

EMAIL: Hanna@brightwaterlab.com *FAX NO.: (302) 656-9700

*PROJECT NAME: CRBK PROJECT NO.:

SITE LOCATION: Chestertown, MD P.O. NO.:

SAMPLER(S): M Crocker J. Thompson DW CERT NO.:

PSS Work Order #: 16052415 PAGE 2 OF 3

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 w/ BOTS	REMARKS
11	MW 4G	5/24/16	1120	GW	1	G		X	
12	MW 1		1130					X	
13	MW 2		1140					X	
14	MW 4		1150					X	

(5)

Relinquished By:	Date	Time	Received By:
(1) [signature]	5/24/16	1200	TTE 123
(2) TTE 123	5/24	1520	[signature]
(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: 3

Custody Seal: ABS

Ice Present: PRES Temp: 5.1, 6 °C

Shipping Carrier: TTE

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SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

PHASE SEPARATION SCIENCE, INC.

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

PSS Work Order #: 16052415 PAGE 3 OF 3

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

1

*CLIENT: UMM *OFFICE LOC. Wilmington, DE
*PROJECT MGR: Ken Hanson *PHONE NO.: (302) 656-9600
EMAIL: khanson@brightfieldsinc.com FAX NO.: (302) 656 9700
*PROJECT NAME: CRHC PROJECT NO.:
SITE LOCATION: Chestertown, MD P.O. NO.:
SAMPLER(S): M. Caskey / J. Thompson DW CERT NO.:

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 * Surfactant	VOC SM5540D										REMARKS
15	MW 1	5/24/16	1130	GW	1	G		X											
16	MW 2	↓	1140	↓	↓	↓		X											
17	MW 4	↓	1150	↓	↓	↓		X											

5

Relinquished By: (1)	Date	Time	Received By:
[signature]	5/24/16	1200	TE 123
Relinquished By: (2) TE 123	Date 5/24	Time 1520	Received By: [signature]
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 _____

# of Coolers: 3
Custody Seal: ABS
Ice Present: PRES Temp: 5.1, 1.6°C
Shipping Carrier: TTE

Special Instructions:

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

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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 #	16052415	**Received By**	Rachel Davis
Client Name	UMM Shore Regional Health Chester	**Date Received**	05/24/2016 03:20:00 PM
Project Name	CRHC	**Delivered By**	Trans Time Express
Disposal Date	06/28/2016	**Tracking No**	Not Applicable
		Logged In By	Thomas Wingate

Shipping Container(s)

No. of Coolers 1

		Ice	Present
Custody Seal(s) Intact?	N/A	Temp (deg C)	5
Seal(s) Signed / Dated?	N/A	Temp Blank Present	No

Documentation

		Sampler Name	M.Craskey, J.Thomp
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 17

Total No. of Containers Received 17

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.

Samples Inspected/Checklist Completed By: Thomas Wingate — Date: 05/24/2016

PM Review and Approval: Lynn Jackson — Date: 05/24/2016

Analytical Report for

UMM Shore Regional Health Chestertown

Certificate of Analysis No.: 16052511

Project Manager: Ken Hannon

Project Name : CRHC

Project Location: Chestertown, MD

June 24, 2016

Phase Separation Science, Inc.

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Baltimore, MD 21228
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PHASE SEPARATION SCIENCE, INC.

June 24, 2016

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

Reference: PSS Work Order(s) No: **16052511**
Project Name: CRHC
Project Location: Chestertown, MD

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 **16052511**.

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 29, 2016, with the exception of air canisters which are cleaned immediately following analysis. 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,

Cathy Thompson
QA Officer

Sample Summary

Client Name: UMM Shore Regional Health Chestertown

Project Name: CRHC

Work Order Number(s): 16052511

The following samples were received under chain of custody by Phase Separation Science (PSS) on 05/25/2016 at 12:40 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
16052511-001	MW9	GROUND WATER	05/25/16 09:00
16052511-002	MW11	GROUND WATER	05/25/16 09:10
16052511-003	MW41	GROUND WATER	05/24/16 12:40
16052511-004	MW10R	GROUND WATER	05/25/16 09:20
16052511-005	MW43	GROUND WATER	05/25/16 09:30
16052511-006	MW42	GROUND WATER	05/25/16 09:40
16052511-007	MW45	GROUND WATER	05/24/16 12:20
16052511-008	MW47	GROUND WATER	05/24/16 12:00
16052511-009	Sys Eff	GROUND WATER	05/25/16 10:00
16052511-010	MW9	GROUND WATER	05/25/16 09:00
16052511-011	MW11	GROUND WATER	05/25/16 09:10
16052511-012	MW41	GROUND WATER	05/24/16 12:40
16052511-013	MW10R	GROUND WATER	05/25/16 09:20
16052511-014	MW43	GROUND WATER	05/25/16 09:30
16052511-015	MW42	GROUND WATER	05/25/16 09:40
16052511-016	MW45	GROUND WATER	05/24/16 12:20
16052511-017	MW47	GROUND WATER	05/24/16 12:00

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)].
7. Method 180.1, The Determination of Turbidity by Nephelometry, recommends samples over 40 NTU be diluted until the turbidity falls below 40 units. Routine samples over 40 NTU may not be diluted as long as the data quality objectives are not affected.
8. Alkalinity results analyzed by EPA 310.2 that are reported by dilution are estimated and are not in compliance with method requirements.

Sample Summary

Client Name: UMM Shore Regional Health Chestertown
Project Name: CRHC

Work Order Number(s): 16052511

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 MDL.
MDL	This is the Laboratory Method Detection Limit which is equivalent to the Limit of Detection (LOD). The LOD is an estimate of the minimum amount of a substance that an analytical process can reliably detect. This value will remain constant across multiple similar instrumentation and among different analysts. 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:
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ROUTE 40 WEST
BALTIMORE, MD 21228
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800-932-9047
FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS
No: 16052511
UMM Shore Regional Health Chestertown, Chestertown, MD
June 24, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: Sys Eff **Date/Time Sampled: 05/25/2016 10:00** **PSS Sample ID: 16052511-009**
Matrix: GROUND WATER **Date/Time Received: 05/25/2016 12:40**

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	05/26/16	05/26/16 14:28	1055

Total Petroleum Hydrocarbons-GRO — Analytical Method: SW-846 8015C — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	05/25/16	05/25/16 13:35	1035

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: 16052511

UMM Shore Regional Health Chestertown, Chestertown, MD

June 24, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: Sys Eff **Date/Time Sampled: 05/25/2016 10:00** **PSS Sample ID: 16052511-009**
Matrix: GROUND WATER **Date/Time Received: 05/25/2016 12:40**

TCL Volatiles plus Oxygenates Analytical Method: SW-846 8260 B Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	10		1	05/27/16	05/27/16 12:04	1011
tert-Amyl alcohol	ND	ug/L	20		1	05/27/16	05/27/16 12:04	1011
tert-Amyl methyl ether	ND	ug/L	10		1	05/27/16	05/27/16 12:04	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	05/27/16	05/27/16 12:04	1011
Benzene	ND	ug/L	1.0		1	05/27/16	05/27/16 12:04	1011
Bromochloromethane	ND	ug/L	1.0		1	05/27/16	05/27/16 12:04	1011
Bromodichloromethane	ND	ug/L	1.0		1	05/27/16	05/27/16 12:04	1011
Bromoform	ND	ug/L	5.0		1	05/27/16	05/27/16 12:04	1011
Bromomethane	ND	ug/L	1.0		1	05/27/16	05/27/16 12:04	1011
tert-Butyl alcohol	ND	ug/L	20		1	05/27/16	05/27/16 12:04	1011
2-Butanone (MEK)	ND	ug/L	10		1	05/27/16	05/27/16 12:04	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	05/27/16	05/27/16 12:04	1011
Carbon Disulfide	ND	ug/L	10		1	05/27/16	05/27/16 12:04	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	05/27/16	05/27/16 12:04	1011
Chlorobenzene	ND	ug/L	1.0		1	05/27/16	05/27/16 12:04	1011
Chloroethane	ND	ug/L	1.0		1	05/27/16	05/27/16 12:04	1011
Chloroform	ND	ug/L	1.0		1	05/27/16	05/27/16 12:04	1011
Chloromethane	ND	ug/L	1.0		1	05/27/16	05/27/16 12:04	1011
Cyclohexane	ND	ug/L	10		1	05/27/16	05/27/16 12:04	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	05/27/16	05/27/16 12:04	1011
Dibromochloromethane	ND	ug/L	1.0		1	05/27/16	05/27/16 12:04	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	05/27/16	05/27/16 12:04	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	05/27/16	05/27/16 12:04	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	05/27/16	05/27/16 12:04	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	05/27/16	05/27/16 12:04	1011
Dichlorodifluoromethane	ND	ug/L	1.0		1	05/27/16	05/27/16 12:04	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	05/27/16	05/27/16 12:04	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	05/27/16	05/27/16 12:04	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	05/27/16	05/27/16 12:04	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	05/27/16	05/27/16 12:04	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16052511

UMM Shore Regional Health Chestertown, Chestertown, MD

June 24, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: Sys Eff **Date/Time Sampled: 05/25/2016 10:00** **PSS Sample ID: 16052511-009**
Matrix: GROUND WATER **Date/Time Received: 05/25/2016 12:40**

TCL Volatiles plus Oxygenates Analytical Method: SW-846 8260 B Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,2-Dichloropropane	ND	ug/L	1.0		1	05/27/16	05/27/16 12:04	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	05/27/16	05/27/16 12:04	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	05/27/16	05/27/16 12:04	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	05/27/16	05/27/16 12:04	1011
Diisopropyl ether	ND	ug/L	10		1	05/27/16	05/27/16 12:04	1011
Ethylbenzene	ND	ug/L	1.0		1	05/27/16	05/27/16 12:04	1011
2-Hexanone	ND	ug/L	10		1	05/27/16	05/27/16 12:04	1011
Isopropylbenzene	ND	ug/L	1.0		1	05/27/16	05/27/16 12:04	1011
Methyl Acetate	ND	ug/L	10		1	05/27/16	05/27/16 12:04	1011
Methylcyclohexane	ND	ug/L	10		1	05/27/16	05/27/16 12:04	1011
Methylene Chloride	ND	ug/L	1.0		1	05/27/16	05/27/16 12:04	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	05/27/16	05/27/16 12:04	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	05/27/16	05/27/16 12:04	1011
Naphthalene	**1.2**	ug/L	1.0		1	05/27/16	05/27/16 12:04	1011
Styrene	ND	ug/L	1.0		1	05/27/16	05/27/16 12:04	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	05/27/16	05/27/16 12:04	1011
Tetrachloroethene	ND	ug/L	1.0		1	05/27/16	05/27/16 12:04	1011
Toluene	ND	ug/L	1.0		1	05/27/16	05/27/16 12:04	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	05/27/16	05/27/16 12:04	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	05/27/16	05/27/16 12:04	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	05/27/16	05/27/16 12:04	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	05/27/16	05/27/16 12:04	1011
Trichloroethene	ND	ug/L	1.0		1	05/27/16	05/27/16 12:04	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	05/27/16	05/27/16 12:04	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	05/27/16	05/27/16 12:04	1011
Vinyl Chloride	ND	ug/L	1.0		1	05/27/16	05/27/16 12:04	1011
m,p-Xylenes	ND	ug/L	2.0		1	05/27/16	05/27/16 12:04	1011
o-Xylene	ND	ug/L	1.0		1	05/27/16	05/27/16 12:04	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS
No: 16052511
UMM Shore Regional Health Chestertown, Chestertown, MD
June 24, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW9 **Date/Time Sampled: 05/25/2016 09:00** **PSS Sample ID: 16052511-010**
Matrix: GROUND WATER **Date/Time Received: 05/25/2016 12:40**

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)	**4.8**	mg/L	0.10		1	05/26/16	05/26/16 14:52	1055

Sample ID: MW11 **Date/Time Sampled: 05/25/2016 09:10** **PSS Sample ID: 16052511-011**
Matrix: GROUND WATER **Date/Time Received: 05/25/2016 12:40**

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)	**5.0**	mg/L	0.11		1	05/26/16	05/26/16 18:51	1055

Sample ID: MW41 **Date/Time Sampled: 05/24/2016 12:40** **PSS Sample ID: 16052511-012**
Matrix: GROUND WATER **Date/Time Received: 05/25/2016 12:40**

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)	**4.8**	mg/L	0.10		1	05/26/16	05/26/16 16:02	1055

Sample ID: MW10R **Date/Time Sampled: 05/25/2016 09:20** **PSS Sample ID: 16052511-013**
Matrix: GROUND WATER **Date/Time Received: 05/25/2016 12:40**

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)	**2.0**	mg/L	0.11		1	05/26/16	05/26/16 16:50	1055

Sample ID: MW43 **Date/Time Sampled: 05/25/2016 09:30** **PSS Sample ID: 16052511-014**
Matrix: GROUND WATER **Date/Time Received: 05/25/2016 12:40**

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)	**9.5**	mg/L	0.11		1	05/26/16	05/26/16 17:37	1055

Sample ID: MW42 **Date/Time Sampled: 05/25/2016 09:40** **PSS Sample ID: 16052511-015**
Matrix: GROUND WATER **Date/Time Received: 05/25/2016 12:40**

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)	**4.0**	mg/L	0.10		1	05/26/16	05/26/16 18:01	1055

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS
No: 16052511
UMM Shore Regional Health Chestertown, Chestertown, MD
June 24, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW45 **Date/Time Sampled: 05/24/2016 12:20** **PSS Sample ID: 16052511-016**
Matrix: GROUND WATER **Date/Time Received: 05/25/2016 12:40**

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)	**8.2**	mg/L	0.10		1	05/26/16	05/26/16 19:38	1055

Sample ID: MW47 **Date/Time Sampled: 05/24/2016 12:00** **PSS Sample ID: 16052511-017**
Matrix: GROUND WATER **Date/Time Received: 05/25/2016 12:40**

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)	**9.7**	mg/L	0.50		5	05/26/16	05/26/16 23:44	1055

Rogers & Callcott ENVIRONMENTAL

Laboratory Services

Laboratory Report

Client	Phase Separation Science, Inc. Lynn Jackson 6630 Baltimore National Pike Baltimore, MD 21228	**Project:** **Work Order:** **Received:**	Routine 6051142 05/26/2016 09:30

Dear Client:

Rogers and Callcott appreciates the opportunity to be of service to you. The attached laboratory services report includes analytical results and chain of custody for samples that were received on May 26, 2016. Rogers and Callcott maintains a formal QA/QC program. Unless otherwise noted, all analyses performed under NELAP certification have complied with all the requirements for the TNI standard. The analyses met the QA/QC confidence interval for each test method unless otherwise qualified. Estimated uncertainty is available upon request.

Privileged / Confidential information may be contained in this report and is intended only for the use of the addressee. If you are not the addressee, or the person responsible for delivering to the person addressed, you may not copy or deliver this message to anyone else. If you receive this message by mistake, please notify Rogers and Callcott immediately.

We strive to provide excellent service to our clients. Please contact Melissa Riddle, your Project Manager, at melissa.riddle@rogersandcallcott.com or (864)-232-1556 if you have any questions about this report.

Report Approved By:

Melissa M Riddle

Melissa Riddle
Project Manager

PO Box 5655 | Greenville, SC 29606 | 426 Fairforest Way | Greenville, SC 29607 | main 864.232.1556 | fax 864.232.6140 rogersandcallcott.com
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Rogers & Callcott ENVIRONMENTAL

Certificate of Analysis

South Carolina Greenville Laboratory Identification 23105
South Carolina Columbia Laboratory Identification 40572
North Carolina Laboratory Certification Number 27
North Carolina Drinking Water Lab Number 45710
NELAP Utah Certificate Number SC000042014-1
Georgia Drinking Water Lab ID 880

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

Project: Routine
Work Order: 6051142
Received: 05/26/2016 09:30

Sample Number	Sample Description	Matrix	Sampled	Type
6051142-01	16052511-001 MW9	Water	05/25/16 09:00	
6051142-02	16052511-002 MW11	Water	05/25/16 09:10	
6051142-03	16052511-003 MW41	Water	05/24/16 12:40	
6051142-04	16052511-004 MW10R	Water	05/25/16 09:20	
6051142-05	16052511-005 MW43	Water	05/25/16 09:30	
6051142-06	16052511-006 MW42	Water	05/25/16 09:40	
6051142-07	16052511-007 MW45	Water	05/24/16 12:20	
6051142-08	16052511-008 MW47	Water	05/24/16 12:00	

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Rogers & Callcott ENVIRONMENTAL

Phase Separation Science, Inc.		Project:	Routine
6630 Baltimore National Pike		Work Order:	6051142
Baltimore, MD 21228		Reported:	06/24/16 07:50

Sample Data

Sample Number 6051142-01
Sample Description 16052511-001 MW9 collected on 05/25/16 09:00

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	**11.0**	1.40	mg/L	1.00	06/13/16 13:10	SM 5540D-2011		SGM	B6F0912

Sample Number 6051142-02
Sample Description 16052511-002 MW11 collected on 05/25/16 09:10

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	**26.8**	3.50	mg/L	2.50	06/16/16 11:25	SM 5540D-2011		SGM	B6F0912

Sample Number 6051142-03
Sample Description 16052511-003 MW41 collected on 05/24/16 12:40

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	**7.80**	1.40	mg/L	1.00	06/16/16 15:45	SM 5540D-2011		SGM	B6F0912

Sample Number 6051142-04
Sample Description 16052511-004 MW10R collected on 05/25/16 09:20

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	ND	1.40	mg/L	1.00	06/17/16 08:00	SM 5540D-2011		SGM	B6F0912

Sample Number 6051142-05
Sample Description 16052511-005 MW43 collected on 05/25/16 09:30

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	**5.00**	1.40	mg/L	1.00	06/17/16 09:30	SM 5540D-2011		SGM	B6F0912

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Rogers & Callcott ENVIRONMENTAL

Phase Separation Science, Inc.		Project:	Routine
6630 Baltimore National Pike		Work Order:	6051142
Baltimore, MD 21228		Reported:	06/24/16 07:50

Sample Number 6051142-06
Sample Description 16052511-006 MW42 collected on 05/25/16 09:40

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	ND	1.40	mg/L	1.00	06/17/16 09:55	SM 5540D-2011		SGM	B6F0912

Sample Number 6051142-07
Sample Description 16052511-007 MW45 collected on 05/24/16 12:20

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	**35.5**	3.50	mg/L	2.50	06/17/16 11:00	SM 5540D-2011		SGM	B6F0912

Sample Number 6051142-08
Sample Description 16052511-008 MW47 collected on 05/24/16 12:00

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	**5.08**	1.40	mg/L	1.00	06/17/16 13:40	SM 5540D-2011		SGM	B6F0912

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Data Qualifiers and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not reported

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6051142

Chain of Custody Form for Subcontracted Analyses

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

For Questions or issues please contact: Lynn Jackson

W.O. No. : **16052511**
P.O. No. :
Project Number : N/A
Report To LOD : No

Report Due On :06/02/16 05:00

Samples Transferred To:
Rogers & Callcott Environmental
PO Box 5655
Greenville, SC 29606

Shipping address is 426 Fairforest Way Greenville,
Phone : 1-866-805-9596

	Lab Sample ID	Field Sample ID	Date Sampled	Time Sampled	Matrix	Analyses Required	Method	Type of Container	Preservative
-01	16052511-001	MW9	05/25/16	09:00	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
-02	16052511-002	MW11	05/25/16	09:10	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
-03	16052511-003	MW41	05/24/16	12:40	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
-04	16052511-004	MW10R	05/25/16	09:20	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
-05	16052511-005	MW43	05/25/16	09:30	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
-06	16052511-006	MW42	05/25/16	09:40	Water	Nonionic Surfactants	SM5540D	250 COOL	COOL
-07	16052511-007	MW45	05/24/16	12:20	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL
-08	16052511-008	MW47	05/24/16	12:00	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL

Data Deliverables Required: COA

Perform Q.C. on Sample :

Send Report Attn : reporting@phaseonline.com

Send InvoiceAttn : invoicing@phaseonline.com

Airbill No.:

Carrier : UPS

Condition Upon Receipt : 0.4°C

Comments :

Samples Relinquished By : Date : 5/26/16 Time: 0930 Samples Received By : Chpotle via UPS

Samples Relinquished By: Date : Time : Samples Received By:

Samples Relinquished By: Date: Time: Samples Received By:

Rogers & Callcott
ENVIRONMENTAL

Sample Receipt Verification

Client: Phase Date Received: 5/26/14 Work Order: 6051142

Carrier Name: Client FedEx UPS US Mail Courier Field Services Other:

Tracking Number: 1Z 231 3E4 01 5957 7153

Receipt Criteria	Yes	No	NA	Comments
Shipping container / cooler intact?	X			Damaged Leaking Other:
Custody seals intact?			X	
COC included with samples?	X			
COC signed when relinquished and received?	CPP 5/26/14 X	X		COC not signed when relinquished
Sample bottles intact?	X			Damaged Leaking Other:
Sample ID on COC agree with label on bottle(s)?	X			
Date / time on COC agree with label on bottle(s)?	X			
Number of bottles on COC agrees with number of bottles received?	X			
Samples received within holding time?	X			
Sample volume sufficient for analysis?	X			
VOA vials free of headspace (<6mm bubble)?			X	
Samples cooled? Temp at receipt recorded on COC; Temp measured with IR thermometer - SN: 97050067	X			Ice Cold Packs Dry Ice None
Samples requiring pH preservation at proper pH? Note: Samples for metals analysis may be preserved upon receipt in the lab.			X	
Samples dechlorinated for parameters requiring chlorine removal at the time of sample collection?			X	

If in-house preservation used – record Lot #			
HCL		H_3PO_4	
H_2SO_4		NaOH	
HNO_3		Other	

Comments:

Were non-conformance issues noted at sample receipt? Yes or No

Non-Conformance issue other than noted above:

Revised July 2014

Completed by: CPP

Case Narrative Summary

Client Name: UMM Shore Regional Health Chestertown

Project Name: CRHC

Work Order Number(s): 16052511

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.

Matrix spike and matrix spike duplicate analyses may not be performed due to insufficient sample quantity. In these instances, a laboratory control sample and laboratory control sample duplicate are analyzed unless otherwise noted or specified in the method.

Sample Receipt:

All sample receipt conditions were acceptable.

Analyses associated with analyst code 4056 were performed by Rogers & Callcott Environmental - UT SC00004

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): 16052511
Report Prepared For: UMM Shore Regional Health Chestertown, Cl
Project Name: Chester River Hospital Center-CRHC
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	60983-1-BKS	BKS	60983-1-BKS	1055	W	60983	132934	--------	05/26/2016 08:24	05/26/2016 11:50
	60983-1-BLK	BLK	60983-1-BLK	1055	W	60983	132934	--------	05/26/2016 08:24	05/26/2016 11:27
	60983-1-BSD	BSD	60983-1-BSD	1055	W	60983	132934	--------	05/26/2016 08:24	05/26/2016 12:14
	Sys Eff	Initial	16052511-009	1055	W	60983	132975	05/25/2016	05/26/2016 08:24	05/26/2016 14:28
	MW9	Initial	16052511-010	1055	W	60983	132975	05/25/2016	05/26/2016 08:24	05/26/2016 14:52
	MW11	Initial	16052511-011	1055	W	60983	132975	05/25/2016	05/26/2016 08:24	05/26/2016 18:51
	MW41	Initial	16052511-012	1055	W	60983	132975	05/24/2016	05/26/2016 08:24	05/26/2016 16:02
	MW10R	Initial	16052511-013	1055	W	60983	132975	05/25/2016	05/26/2016 08:24	05/26/2016 16:50
	MW43	Initial	16052511-014	1055	W	60983	132975	05/25/2016	05/26/2016 08:24	05/26/2016 17:37
	MW42	Initial	16052511-015	1055	W	60983	132975	05/25/2016	05/26/2016 08:24	05/26/2016 18:01
	MW45	Initial	16052511-016	1055	W	60983	132975	05/24/2016	05/26/2016 08:24	05/26/2016 19:38
	MW47	Initial	16052511-017	1055	W	60983	132975	05/24/2016	05/26/2016 08:24	05/26/2016 23:44
SW-846 8015C	Sys Eff	Initial	16052511-009	1035	W	60976	132885	05/25/2016	05/25/2016 09:12	05/25/2016 13:35
	60976-2-BKS	BKS	60976-2-BKS	1035	W	60976	132885	--------	05/25/2016 09:12	05/25/2016 11:52
	60976-2-BLK	BLK	60976-2-BLK	1035	W	60976	132885	--------	05/25/2016 09:12	05/25/2016 11:01
	60976-2-BSD	BSD	60976-2-BSD	1035	W	60976	132885	--------	05/25/2016 09:12	05/25/2016 12:17
SW-846 8260 B	Sys Eff	Initial	16052511-009	1011	W	61021	132983	05/25/2016	05/27/2016 07:44	05/27/2016 12:04
	61021-1-BKS	BKS	61021-1-BKS	1011	W	61021	132983	--------	05/27/2016 07:44	05/27/2016 09:25
	61021-1-BLK	BLK	61021-1-BLK	1011	W	61021	132983	--------	05/27/2016 07:44	05/27/2016 11:24
	Sys Eff S	MS	16052511-009 S	1011	W	61021	132983	05/25/2016	05/27/2016 07:44	05/27/2016 15:22
	Sys Eff SD	MSD	16052511-009 SD	1011	W	61021	132983	05/25/2016	05/27/2016 07:44	05/27/2016 16:02

PHASE SEPARATION SCIENCE, INC.

QC Summary 16052511

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132975 Matrix: Ground Water Date Prep: 05/26/2016
PSS Sample ID: 16052511-009

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	68		33-95	%	05/26/16 14:28

Analytical Method: SW-846 8015C Prep Method: SW5030B
Seq Number: 132885 Matrix: Ground Water Date Prep: 05/25/2016
PSS Sample ID: 16052511-009

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	77		55-114	%	05/25/16 13:35

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 132983 Matrix: Ground Water Date Prep: 05/27/2016
PSS Sample ID: 16052511-009

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	103		86-111	%	05/27/16 12:04
Dibromofluoromethane	96		91-119	%	05/27/16 12:04
Toluene-D8	99		90-117	%	05/27/16 12:04

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132975 Matrix: Ground Water Date Prep: 05/26/2016
PSS Sample ID: 16052511-010

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	75		33-95	%	05/26/16 14:52

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132975 Matrix: Ground Water Date Prep: 05/26/2016
PSS Sample ID: 16052511-011

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	75		33-95	%	05/26/16 18:51

PHASE SEPARATION SCIENCE, INC.

QC Summary 16052511

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132975 Matrix: Ground Water Date Prep: 05/26/2016
PSS Sample ID: 16052511-012

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	76		33-95	%	05/26/16 16:02

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132975 Matrix: Ground Water Date Prep: 05/26/2016
PSS Sample ID: 16052511-013

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	73		33-95	%	05/26/16 16:50

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132975 Matrix: Ground Water Date Prep: 05/26/2016
PSS Sample ID: 16052511-014

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	78		33-95	%	05/26/16 17:37

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132975 Matrix: Ground Water Date Prep: 05/26/2016
PSS Sample ID: 16052511-015

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	78		33-95	%	05/26/16 18:01

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132975 Matrix: Ground Water Date Prep: 05/26/2016
PSS Sample ID: 16052511-016

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	75		33-95	%	05/26/16 19:38

PHASE SEPARATION SCIENCE, INC.

QC Summary 16052511

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132975 Matrix: Ground Water Date Prep: 05/26/2016
PSS Sample ID: 16052511-017

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	81		33-95	%	05/26/16 23:44

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 16052511

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 132934 Matrix: Water Date Prep: 05/26/16
MB Sample Id: 60983-1-BLK LCS Sample Id: 60983-1-BKS LCSD Sample Id: 60983-1-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	0.6983	70	0.7459	75	47-106	7	20	mg/L	05/26/16 11:50	

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	LCSD Result	LCSD Flag	Limits	Units	Analysis Date
o-Terphenyl	73		69		74		33-95	%	05/26/16 11:50

Analytical Method: SW-846 8015C Prep Method: SW5030B
Seq Number: 132885 Matrix: Water Date Prep: 05/25/16
MB Sample Id: 60976-2-BLK LCS Sample Id: 60976-2-BKS LCSD Sample Id: 60976-2-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
TPH-GRO (Gasoline Range Organics	<100	5000	5501	110	5192	104	74-132	6	20	ug/L	05/25/16 11:52	

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	LCSD Result	LCSD Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	79		94		92		55-114	%	05/25/16 11:52

PHASE SEPARATION SCIENCE, INC.

QC Summary 16052511

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 132983 Matrix: Water Date Prep: 05/27/16
MB Sample Id: 61021-1-BLK LCS Sample Id: 61021-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Acetone	<10.00	50.00	50.49	101	29-149	ug/L	05/27/16 09:25	
tert-Amyl alcohol	<20.00	50.00	48.85	98	36-149	ug/L	05/27/16 09:25	
tert-Amyl ethyl ether	<10.00	50.00	52.81	106	75-123	ug/L	05/27/16 09:25	
tert-Amyl methyl ether	<10.00	50.00	48.84	98	73-125	ug/L	05/27/16 09:25	
Benzene	<1.000	50.00	55.24	110	85-123	ug/L	05/27/16 09:25	
Bromochloromethane	<1.000	50.00	54.90	110	82-136	ug/L	05/27/16 09:25	
Bromodichloromethane	<1.000	50.00	57.39	115	88-133	ug/L	05/27/16 09:25	
Bromoform	<5.000	50.00	50.11	100	80-126	ug/L	05/27/16 09:25	
Bromomethane	<1.000	50.00	57.92	116	64-139	ug/L	05/27/16 09:25	
tert-Butyl alcohol	<20.00	50.00	67.43	135	63-155	ug/L	05/27/16 09:25	
2-Butanone (MEK)	<10.00	50.00	42.47	85	39-135	ug/L	05/27/16 09:25	
tert-Butyl ethyl ether	<10.00	50.00	49.32	99	70-128	ug/L	05/27/16 09:25	
Carbon Disulfide	<10.00	50.00	50.09	100	85-124	ug/L	05/27/16 09:25	
Carbon Tetrachloride	<1.000	50.00	55.68	111	81-138	ug/L	05/27/16 09:25	
Chlorobenzene	<1.000	50.00	57.32	115	85-120	ug/L	05/27/16 09:25	
Chloroethane	<1.000	50.00	58.55	117	75-129	ug/L	05/27/16 09:25	
Chloroform	<1.000	50.00	55.32	111	85-128	ug/L	05/27/16 09:25	
Chloromethane	<1.000	50.00	62.37	125	60-139	ug/L	05/27/16 09:25	
Cyclohexane	<10.00	50.00	52.59	105	55-131	ug/L	05/27/16 09:25	
1,2-Dibromo-3-Chloropropane	<10.00	50.00	45.25	91	69-127	ug/L	05/27/16 09:25	
Dibromochloromethane	<1.000	50.00	50.23	100	82-127	ug/L	05/27/16 09:25	
1,2-Dibromoethane (EDB)	<1.000	50.00	54.71	109	82-121	ug/L	05/27/16 09:25	
1,2-Dichlorobenzene	<1.000	50.00	57.86	116	82-123	ug/L	05/27/16 09:25	
1,3-Dichlorobenzene	<1.000	50.00	59.19	118	81-123	ug/L	05/27/16 09:25	
1,4-Dichlorobenzene	<1.000	50.00	57.47	115	81-121	ug/L	05/27/16 09:25	
Dichlorodifluoromethane	<1.000	50.00	56.94	114	69-147	ug/L	05/27/16 09:25	
1,1-Dichloroethane	<1.000	50.00	60.12	120	83-123	ug/L	05/27/16 09:25	
1,2-Dichloroethane	<1.000	50.00	53.98	108	86-138	ug/L	05/27/16 09:25	
1,1-Dichloroethene	<1.000	50.00	54.89	110	85-127	ug/L	05/27/16 09:25	
cis-1,2-Dichloroethene	<1.000	50.00	56.41	113	87-127	ug/L	05/27/16 09:25	
1,2-Dichloropropane	<1.000	50.00	58.73	117	79-125	ug/L	05/27/16 09:25	
cis-1,3-Dichloropropene	<1.000	50.00	58.81	118	79-131	ug/L	05/27/16 09:25	
trans-1,3-Dichloropropene	<1.000	50.00	53.72	107	82-133	ug/L	05/27/16 09:25	
trans-1,2-Dichloroethene	<1.000	50.00	55.83	112	85-125	ug/L	05/27/16 09:25	
Diisopropyl ether	<10.00	50.00	54.18	108	70-129	ug/L	05/27/16 09:25	
Ethylbenzene	<1.000	50.00	58.59	117	83-123	ug/L	05/27/16 09:25	
2-Hexanone	<10.00	50.00	46.33	93	37-137	ug/L	05/27/16 09:25	
Isopropylbenzene	<1.000	50.00	61.44	123	70-131	ug/L	05/27/16 09:25	
Methyl Acetate	<10.00	50.00	50.70	101	69-127	ug/L	05/27/16 09:25	
Methylcyclohexane	<10.00	50.00	56.06	112	75-129	ug/L	05/27/16 09:25	
Methylene Chloride	<1.000	50.00	53.36	107	86-124	ug/L	05/27/16 09:25	
4-Methyl-2-Pentanone	<5.000	50.00	42.84	86	39-143	ug/L	05/27/16 09:25	
Methyl-t-butyl ether	<1.000	50.00	49.57	99	75-134	ug/L	05/27/16 09:25	
Naphthalene	<1.000	50.00	49.04	98	61-118	ug/L	05/27/16 09:25	
Styrene	<1.000	50.00	54.80	110	80-120	ug/L	05/27/16 09:25	
1,1,2,2-Tetrachloroethane	<1.000	50.00	54.51	109	64-125	ug/L	05/27/16 09:25	
Tetrachloroethene	<1.000	50.00	62.02	124	83-138	ug/L	05/27/16 09:25	
Toluene	<1.000	50.00	57.83	116	88-126	ug/L	05/27/16 09:25	
1,2,3-Trichlorobenzene	<1.000	50.00	51.49	103	75-124	ug/L	05/27/16 09:25	
1,2,4-Trichlorobenzene	<1.000	50.00	60.78	122	77-131	ug/L	05/27/16 09:25	
1,1,1-Trichloroethane	<1.000	50.00	54.84	110	68-146	ug/L	05/27/16 09:25	

PHASE SEPARATION SCIENCE, INC.

QC Summary 16052511

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8260 B

Prep Method: SW5030B

Seq Number: 132983

Matrix: Water

Date Prep: 05/27/16

MB Sample Id: 61021-1-BLK

LCS Sample Id: 61021-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
1,1,2-Trichloroethane	<1.000	50.00	56.21	112	85-124	ug/L	05/27/16 09:25	
Trichloroethene	<1.000	50.00	56.72	113	87-127	ug/L	05/27/16 09:25	
Trichlorofluoromethane	<5.000	50.00	57.58	115	77-147	ug/L	05/27/16 09:25	
1,1,2-Trichloro-1,2,2-Trifluoroethane	<1.000	50.00	49.60	99	68-135	ug/L	05/27/16 09:25	
Vinyl Chloride	<1.000	50.00	60.89	122	74-138	ug/L	05/27/16 09:25	
m,p-Xylenes	<2.000	100	118.6	119	84-124	ug/L	05/27/16 09:25	
o-Xylene	<1.000	50.00	60.12	120	79-126	ug/L	05/27/16 09:25	

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	102		101		86-111	%	05/27/16 09:25
Dibromofluoromethane	100		97		91-119	%	05/27/16 09:25
Toluene-D8	101		100		90-117	%	05/27/16 09:25

PHASE SEPARATION SCIENCE, INC.

QC Summary 16052511

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 132983 Matrix: Ground Water Date Prep: 05/27/16
Parent Sample Id: 16052511-009 MS Sample Id: 16052511-009 S MSD Sample Id: 16052511-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Acetone	<10.00	50.00	49.90	100	33.47	67	46-138	39	25	ug/L	05/27/16 15:22	F
tert-Amyl alcohol	<20.00	50.00	59.60	119	00	0	39-128	200	25	ug/L	05/27/16 15:22	XF
tert-Amyl ethyl ether	<10.00	50.00	48.02	96	47.71	95	66-115	1	25	ug/L	05/27/16 15:22	
tert-Amyl methyl ether	<10.00	50.00	46.94	94	46.40	93	59-125	1	25	ug/L	05/27/16 15:22	
Benzene	<1.000	50.00	54.90	110	52.02	104	77-126	5	25	ug/L	05/27/16 15:22	
Bromochloromethane	<1.000	50.00	53.39	107	49.92	100	74-133	7	25	ug/L	05/27/16 15:22	
Bromodichloromethane	<1.000	50.00	53.94	108	52.99	106	79-130	2	25	ug/L	05/27/16 15:22	
Bromoform	<5.000	50.00	48.93	98	47.27	95	69-120	3	25	ug/L	05/27/16 15:22	
Bromomethane	<1.000	50.00	64.05	128	58.58	117	64-130	9	25	ug/L	05/27/16 15:22	
tert-Butyl alcohol	<20.00	50.00	32.48	65	36.01	72	56-142	10	25	ug/L	05/27/16 15:22	
2-Butanone (MEK)	<10.00	50.00	40.91	82	40.29	81	34-126	2	25	ug/L	05/27/16 15:22	
tert-Butyl ethyl ether	<10.00	50.00	47.23	94	46.89	94	56-128	1	25	ug/L	05/27/16 15:22	
Carbon Disulfide	<10.00	50.00	49.83	100	45.27	91	76-126	10	25	ug/L	05/27/16 15:22	
Carbon Tetrachloride	<1.000	50.00	54.81	110	52.18	104	77-137	5	25	ug/L	05/27/16 15:22	
Chlorobenzene	<1.000	50.00	54.63	109	53.32	107	74-120	2	25	ug/L	05/27/16 15:22	
Chloroethane	<1.000	50.00	64.09	128	58.18	116	68-133	10	25	ug/L	05/27/16 15:22	
Chloroform	<1.000	50.00	53.97	108	51.47	103	77-127	5	25	ug/L	05/27/16 15:22	
Chloromethane	<1.000	50.00	67.22	134	60.60	121	50-143	10	25	ug/L	05/27/16 15:22	
Cyclohexane	<10.00	50.00	52.25	105	46.25	93	53-139	12	25	ug/L	05/27/16 15:22	
1,2-Dibromo-3-Chloropropane	<10.00	50.00	44.00	88	46.29	93	56-123	5	25	ug/L	05/27/16 15:22	
Dibromochloromethane	<1.000	50.00	48.96	98	48.64	97	70-125	1	25	ug/L	05/27/16 15:22	
1,2-Dibromoethane (EDB)	<1.000	50.00	53.82	108	53.83	108	69-121	0	25	ug/L	05/27/16 15:22	
1,2-Dichlorobenzene	<1.000	50.00	52.47	105	52.77	106	69-118	1	25	ug/L	05/27/16 15:22	
1,3-Dichlorobenzene	<1.000	50.00	52.54	105	53.27	107	68-119	1	25	ug/L	05/27/16 15:22	
1,4-Dichlorobenzene	<1.000	50.00	51.35	103	52.06	104	67-117	1	25	ug/L	05/27/16 15:22	
Dichlorodifluoromethane	<1.000	50.00	57.34	115	51.83	104	68-139	10	25	ug/L	05/27/16 15:22	
1,1-Dichloroethane	<1.000	50.00	59.65	119	56.46	113	78-126	5	25	ug/L	05/27/16 15:22	
1,2-Dichloroethane	<1.000	50.00	52.89	106	51.76	104	78-134	2	25	ug/L	05/27/16 15:22	
1,1-Dichloroethene	<1.000	50.00	52.41	105	49.24	98	78-125	6	25	ug/L	05/27/16 15:22	
cis-1,2-Dichloroethene	<1.000	50.00	54.03	108	52.38	105	78-128	3	25	ug/L	05/27/16 15:22	
1,2-Dichloropropane	<1.000	50.00	55.14	110	53.66	107	73-126	3	25	ug/L	05/27/16 15:22	
cis-1,3-Dichloropropene	<1.000	50.00	54.10	108	53.94	108	67-126	0	25	ug/L	05/27/16 15:22	
trans-1,3-Dichloropropene	<1.000	50.00	50.79	102	49.40	99	68-129	3	25	ug/L	05/27/16 15:22	
trans-1,2-Dichloroethene	<1.000	50.00	55.33	111	51.80	104	76-128	7	25	ug/L	05/27/16 15:22	
Diisopropyl ether	<10.00	50.00	51.65	103	50.62	101	63-130	2	25	ug/L	05/27/16 15:22	
Ethylbenzene	<1.000	50.00	56.15	112	54.93	110	74-123	2	25	ug/L	05/27/16 15:22	
2-Hexanone	<10.00	50.00	43.76	88	42.72	85	38-125	2	25	ug/L	05/27/16 15:22	
Isopropylbenzene	<1.000	50.00	52.57	105	55.27	111	58-129	5	25	ug/L	05/27/16 15:22	
Methyl Acetate	<10.00	50.00	49.15	98	44.53	89	63-115	10	25	ug/L	05/27/16 15:22	
Methylcyclohexane	<10.00	50.00	49.26	99	49.39	99	69-130	0	25	ug/L	05/27/16 15:22	
Methylene Chloride	<1.000	50.00	53.90	108	49.44	99	76-124	9	25	ug/L	05/27/16 15:22	
4-Methyl-2-Pentanone	<5.000	50.00	37.54	75	40.34	81	35-123	7	25	ug/L	05/27/16 15:22	
Methyl-t-butyl ether	<1.000	50.00	49.23	98	47.72	95	64-129	3	25	ug/L	05/27/16 15:22	
Naphthalene	1.150	50.00	44.94	88	49.17	96	45-109	9	25	ug/L	05/27/16 15:22	
Styrene	<1.000	50.00	51.34	103	51.00	102	61-124	1	25	ug/L	05/27/16 15:22	
1,1,2,2-Tetrachloroethane	<1.000	50.00	50.72	101	52.92	106	47-130	4	25	ug/L	05/27/16 15:22	
Tetrachloroethene	<1.000	50.00	58.01	116	55.93	112	68-139	4	25	ug/L	05/27/16 15:22	
Toluene	<1.000	50.00	55.08	110	53.21	106	79-128	3	25	ug/L	05/27/16 15:22	
1,2,3-Trichlorobenzene	<1.000	50.00	43.94	88	46.97	94	48-122	7	25	ug/L	05/27/16 15:22	
1,2,4-Trichlorobenzene	<1.000	50.00	51.66	103	52.86	106	54-124	2	25	ug/L	05/27/16 15:22	
1,1,1-Trichloroethane	<1.000	50.00	55.33	111	52.24	104	73-140	6	25	ug/L	05/27/16 15:22	

PHASE SEPARATION SCIENCE, INC.

QC Summary 16052511

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8260 B Prep Method: SW5030B

Seq Number: 132983 Matrix: Ground Water Date Prep: 05/27/16

Parent Sample Id: 16052511-009 MS Sample Id: 16052511-009 S MSD Sample Id: 16052511-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,2-Trichloroethane	<1.000	50.00	55.10	110	53.35	107	78-124	3	25	ug/L	05/27/16 15:22	
Trichloroethene	<1.000	50.00	53.21	106	51.92	104	77-131	2	25	ug/L	05/27/16 15:22	
Trichlorofluoromethane	<5.000	50.00	68.11	136	60.71	121	73-144	11	25	ug/L	05/27/16 15:22	
1,1,2-Trichloro-1,2,2-Trifluoroethane	<1.000	50.00	51.27	103	45.18	90	65-140	13	25	ug/L	05/27/16 15:22	
Vinyl Chloride	<1.000	50.00	66.28	133	60.56	121	60-146	9	25	ug/L	05/27/16 15:22	
m,p-Xylenes	<2.000	100	112.6	113	109.3	109	75-125	3	25	ug/L	05/27/16 15:22	
o-Xylene	<1.000	50.00	57.44	115	55.82	112	69-126	3	25	ug/L	05/27/16 15:22	

Surrogate	MS Result	MS Flag	MSD Result	MSD Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	95		101		86-111	%	05/27/16 15:22
Dibromofluoromethane	99		98		91-119	%	05/27/16 15:22
Toluene-D8	101		99		90-117	%	05/27/16 15:22

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: UMM *OFFICE LOC. Wilmington, DE

*PROJECT MGR: Ken Hannon *PHONE NO.: (302) 656 9600

EMAIL: khannon@Brightfieldgs.com *FAX NO.: (302) 656 9700

*PROJECT NAME: CRHC PROJECT NO.:

SITE LOCATION: Chestertown, MD P.O. NO.:

SAMPLER(S): M. Craster / J. Thompson DW CERT NO.:

PSS Work Order #: 16052511 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) *: Sulfate via SM5540D	REMARKS
1	MW 9	5/25/16	0900	GW	1	G		X	
2	MW 11	5/25/16	0910					X	
3	MW 41	5/24/16	1240					X	
4	MW 10R	5/25/16	0920					X	
5	MW 43	5/25/16	0930					X	
6	MW 42	5/25/16	0940		2			X	(2) 25041 bottles. This sample only
7	MW 45	5/24/16	1220					X	
8	MW 47	5/24/16	1200					X	

(5)

Relinquished By:	Date	Time	Received By:
(1)	5/25/16	1100	
(2)	5/25/16	1240	
(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: 3

Custody Seal: ABS

Ice Present: PRES Temp: 5°, 4°, 6°C

Shipping Carrier: TTE

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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: UMM *OFFICE LOC. Wilmington, DE
*PROJECT MGR: Ken Hannon *PHONE NO.: (302) 656 9600
EMAIL: Khannon@Brightfield.com FAX NO.: (302) 656 9700
*PROJECT NAME: CRHC PROJECT NO.:
SITE LOCATION: Chestertown, MD P.O. NO.:
SAMPLER(S): M. Cuskey, J. Thompson DW CERT NO.:

PSS Work Order #: 16052511 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 via 8015	GRO	VOC with Oxygenates	REMARKS
Preservatives Used							None	HCL	HCL	HCL
9	Sys Eff	5/25/16	1000	GW	5	G	X	X	X	X
10	MW 9	5/25/16	0900		1		X			
11	MW 11	5/25/16	0910				X			
12	MW 41	5/24/16	1210				X			
13	MW 10R	5/25/16	0920				X			
14	MW 43	5/25/16	0930				X			
15	MW 42	5/25/16	0940				X			
16	MW 45	5/24/16	1220				X			
17	MW 47	5/24/16	1200				X			

(5)

Relinquished By:	Date	Time	Received By:
(1)	5/25/16	1100	
(2)	5/25/16	1240	
(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: 3
Custody Seal: ABS
Ice Present: PRES Temp: 5.4, 6°C
Shipping Carrier: TTE

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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 #	16052511	**Received By**	Thomas Wingate
Client Name	UMM Shore Regional Health Chester	**Date Received**	05/25/2016 12:40:00 PM
Project Name	CRHC	**Delivered By**	Trans Time Express
Disposal Date	06/29/2016	**Tracking No**	Not Applicable
		Logged In By	Rachel Davis

Shipping Container(s)

No. of Coolers 1

		Ice	Present
Custody Seal(s) Intact?	N/A	Temp (deg C)	4
Seal(s) Signed / Dated?	N/A	Temp Blank Present	No
		Ice	Present
Custody Seal(s) Intact?	N/A	Temp (deg C)	5
Seal(s) Signed / Dated?	N/A	Temp Blank Present	No
		Ice	Present
Custody Seal(s) Intact?	N/A	Temp (deg C)	6
Seal(s) Signed / Dated?	N/A	Temp Blank Present	No

Documentation

COC agrees with sample labels?	Yes	Sampler Name	Not Provided
Chain of Custody	Yes		N/A

Sample Container

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

Total No. of Samples Received 17

Total No. of Containers Received 22

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

Phase Separation Science, Inc

Sample Receipt Checklist

Work Order #	16052511	**Received By**	Thomas Wingate
Client Name	UMM Shore Regional Health Chester	**Date Received**	05/25/2016 12:40:00 PM
Project Name	CRHC	**Delivered By**	Trans Time Express
Disposal Date	06/29/2016	**Tracking No**	Not Applicable
		Logged In By	Rachel Davis

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.

Samples Inspected/Checklist Completed By: Rachel Davis — Date: 05/25/2016

PM Review and Approval: Lynn Jackson — Date: 05/25/2016

Analytical Report for

UMM Shore Regional Health Chestertown

Certificate of Analysis No.: 16062226

Project Manager: Ken Hannon

Project Name : CRHC

Project Location: Chestertown, MD

June 29, 2016

Phase Separation Science, Inc.

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PHASE SEPARATION SCIENCE, INC.

June 29, 2016

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

Reference: PSS Work Order(s) No: **16062226**
Project Name: CRHC
Project Location: Chestertown, MD

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 **16062226**.

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 27, 2016, with the exception of air canisters which are cleaned immediately following analysis. 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 Chestertown

Project Name: CRHC

Work Order Number(s): 16062226

The following samples were received under chain of custody by Phase Separation Science (PSS) on 06/22/2016 at 02:51 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
16062226-001	MW 24	GROUND WATER	06/22/16 10:30
16062226-002	MW 33	GROUND WATER	06/22/16 10:40
16062226-003	MW 34	GROUND WATER	06/22/16 10:50
16062226-004	MW 15	GROUND WATER	06/22/16 11:00
16062226-005	MW 19	GROUND WATER	06/22/16 11:10
16062226-006	MW 20	GROUND WATER	06/22/16 11:20
16062226-007	MW 35	GROUND WATER	06/22/16 11:30
16062226-008	Sys EFF	GROUND WATER	06/22/16 11:40

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)].
7. Method 180.1, The Determination of Turbidity by Nephelometry, recommends samples over 40 NTU be diluted until the turbidity falls below 40 units. Routine samples over 40 NTU may not be diluted as long as the data quality objectives are not affected.
8. Alkalinity results analyzed by EPA 310.2 that are reported by dilution are estimated and are not in compliance with method requirements.

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 MDL.
MDL	This is the Laboratory Method Detection Limit which is equivalent to the Limit of Detection (LOD). The LOD is an estimate of the minimum amount of a substance that an analytical process can reliably detect. This value will remain constant across multiple similar instrumentation and among different analysts. 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

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16062226

UMM Shore Regional Health Chestertown, Chestertown, MD

June 29, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 24 **Date/Time Sampled: 06/22/2016 10:30** **PSS Sample ID: 16062226-001**
Matrix: GROUND WATER **Date/Time Received: 06/22/2016 14:51**

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	06/24/16	06/29/16 09:18	1045

Sample ID: MW 33 **Date/Time Sampled: 06/22/2016 10:40** **PSS Sample ID: 16062226-002**
Matrix: GROUND WATER **Date/Time Received: 06/22/2016 14:51**

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	06/24/16	06/29/16 09:43	1045

Sample ID: MW 34 **Date/Time Sampled: 06/22/2016 10:50** **PSS Sample ID: 16062226-003**
Matrix: GROUND WATER **Date/Time Received: 06/22/2016 14:51**

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	06/24/16	06/29/16 09:43	1045

Sample ID: MW 15 **Date/Time Sampled: 06/22/2016 11:00** **PSS Sample ID: 16062226-004**
Matrix: GROUND WATER **Date/Time Received: 06/22/2016 14:51**

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	06/24/16	06/29/16 10:08	1045

Sample ID: MW 19 **Date/Time Sampled: 06/22/2016 11:10** **PSS Sample ID: 16062226-005**
Matrix: GROUND WATER **Date/Time Received: 06/22/2016 14:51**

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	06/24/16	06/29/16 10:08	1045

Sample ID: MW 20 **Date/Time Sampled: 06/22/2016 11:20** **PSS Sample ID: 16062226-006**
Matrix: GROUND WATER **Date/Time Received: 06/22/2016 14:51**

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)	**1.7**	mg/L	0.10		1	06/24/16	06/29/16 10:34	1045

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16062226

UMM Shore Regional Health Chestertown, Chestertown, MD

June 29, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 35 **Date/Time Sampled: 06/22/2016 11:30** **PSS Sample ID: 16062226-007**
Matrix: GROUND WATER **Date/Time Received: 06/22/2016 14:51**

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	06/24/16	06/29/16 10:34	1045

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS
No: 16062226
UMM Shore Regional Health Chestertown, Chestertown, MD
June 29, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: Sys EFF **Date/Time Sampled: 06/22/2016 11:40** **PSS Sample ID: 16062226-008**
Matrix: GROUND WATER **Date/Time Received: 06/22/2016 14:51**

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	06/24/16	06/29/16 10:59	1045

Total Petroleum Hydrocarbons-GRO — Analytical Method: SW-846 8015C — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	06/23/16	06/23/16 13:12	1035

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16062226

UMM Shore Regional Health Chestertown, Chestertown, MD

June 29, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: Sys EFF **Date/Time Sampled: 06/22/2016 11:40** **PSS Sample ID: 16062226-008**
Matrix: GROUND WATER **Date/Time Received: 06/22/2016 14:51**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	10		1	06/27/16	06/27/16 16:04	1014
tert-Amyl alcohol	ND	ug/L	20		1	06/27/16	06/27/16 16:04	1014
tert-Amyl ethyl ether	ND	ug/L	10		1	06/27/16	06/27/16 16:04	1014
tert-Amyl methyl ether	ND	ug/L	10		1	06/27/16	06/27/16 16:04	1014
Benzene	ND	ug/L	1.0		1	06/27/16	06/27/16 16:04	1014
Bromochloromethane	ND	ug/L	1.0		1	06/27/16	06/27/16 16:04	1014
Bromodichloromethane	ND	ug/L	1.0		1	06/27/16	06/27/16 16:04	1014
Bromoform	ND	ug/L	5.0		1	06/27/16	06/27/16 16:04	1014
Bromomethane	ND	ug/L	1.0		1	06/27/16	06/27/16 16:04	1014
tert-Butyl alcohol	ND	ug/L	20		1	06/27/16	06/27/16 16:04	1014
2-Butanone (MEK)	ND	ug/L	10		1	06/27/16	06/27/16 16:04	1014
tert-Butyl ethyl ether	ND	ug/L	10		1	06/27/16	06/27/16 16:04	1014
Carbon Disulfide	ND	ug/L	10		1	06/27/16	06/27/16 16:04	1014
Carbon Tetrachloride	ND	ug/L	1.0		1	06/27/16	06/27/16 16:04	1014
Chlorobenzene	ND	ug/L	1.0		1	06/27/16	06/27/16 16:04	1014
Chloroethane	ND	ug/L	1.0		1	06/27/16	06/27/16 16:04	1014
Chloroform	ND	ug/L	1.0		1	06/27/16	06/27/16 16:04	1014
Chloromethane	ND	ug/L	1.0		1	06/27/16	06/27/16 16:04	1014
Cyclohexane	ND	ug/L	10		1	06/27/16	06/27/16 16:04	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	06/27/16	06/27/16 16:04	1014
Dibromochloromethane	ND	ug/L	1.0		1	06/27/16	06/27/16 16:04	1014
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	06/27/16	06/27/16 16:04	1014
1,2-Dichlorobenzene	ND	ug/L	1.0		1	06/27/16	06/27/16 16:04	1014
1,3-Dichlorobenzene	ND	ug/L	1.0		1	06/27/16	06/27/16 16:04	1014
Dichlorodifluoromethane	ND	ug/L	1.0		1	06/27/16	06/27/16 16:04	1014
1,4-Dichlorobenzene	ND	ug/L	1.0		1	06/27/16	06/27/16 16:04	1014
1,1-Dichloroethane	ND	ug/L	1.0		1	06/27/16	06/27/16 16:04	1014
1,2-Dichloroethane	ND	ug/L	1.0		1	06/27/16	06/27/16 16:04	1014
1,1-Dichloroethene	ND	ug/L	1.0		1	06/27/16	06/27/16 16:04	1014
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	06/27/16	06/27/16 16:04	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16062226

UMM Shore Regional Health Chestertown, Chestertown, MD

June 29, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: Sys EFF **Date/Time Sampled: 06/22/2016 11:40** **PSS Sample ID: 16062226-008**
Matrix: GROUND WATER **Date/Time Received: 06/22/2016 14:51**

TCL Volatiles plus Oxygenates Analytical Method: SW-846 8260 B Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
1,2-Dichloropropane	ND	ug/L	1.0		1	06/27/16	06/27/16 16:04	1014
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	06/27/16	06/27/16 16:04	1014
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	06/27/16	06/27/16 16:04	1014
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	06/27/16	06/27/16 16:04	1014
Diisopropyl ether	ND	ug/L	10		1	06/27/16	06/27/16 16:04	1014
Ethylbenzene	ND	ug/L	1.0		1	06/27/16	06/27/16 16:04	1014
2-Hexanone	ND	ug/L	10		1	06/27/16	06/27/16 16:04	1014
Isopropylbenzene	ND	ug/L	1.0		1	06/27/16	06/27/16 16:04	1014
Methyl Acetate	ND	ug/L	10		1	06/27/16	06/27/16 16:04	1014
Methylcyclohexane	ND	ug/L	10		1	06/27/16	06/27/16 16:04	1014
Methylene Chloride	ND	ug/L	1.0		1	06/27/16	06/27/16 16:04	1014
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	06/27/16	06/27/16 16:04	1014
Methyl-t-butyl ether	ND	ug/L	1.0		1	06/27/16	06/27/16 16:04	1014
Naphthalene	**1.1**	ug/L	1.0		1	06/27/16	06/27/16 16:04	1014
Styrene	ND	ug/L	1.0		1	06/27/16	06/27/16 16:04	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	06/27/16	06/27/16 16:04	1014
Tetrachloroethene	ND	ug/L	1.0		1	06/27/16	06/27/16 16:04	1014
Toluene	ND	ug/L	1.0		1	06/27/16	06/27/16 16:04	1014
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	06/27/16	06/27/16 16:04	1014
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	06/27/16	06/27/16 16:04	1014
1,1,1-Trichloroethane	ND	ug/L	1.0		1	06/27/16	06/27/16 16:04	1014
1,1,2-Trichloroethane	ND	ug/L	1.0		1	06/27/16	06/27/16 16:04	1014
Trichloroethene	ND	ug/L	1.0		1	06/27/16	06/27/16 16:04	1014
Trichlorofluoromethane	ND	ug/L	5.0		1	06/27/16	06/27/16 16:04	1014
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	06/27/16	06/27/16 16:04	1014
Vinyl Chloride	ND	ug/L	1.0		1	06/27/16	06/27/16 16:04	1014
m,p-Xylenes	ND	ug/L	2.0		1	06/27/16	06/27/16 16:04	1014
o-Xylene	ND	ug/L	1.0		1	06/27/16	06/27/16 16:04	1014

Case Narrative Summary

Client Name: UMM Shore Regional Health Chestertown

Project Name: CRHC

Work Order Number(s): 16062226

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.

Matrix spike and matrix spike duplicate analyses may not be performed due to insufficient sample quantity. In these instances, a laboratory control sample and laboratory control sample duplicate are analyzed unless otherwise noted or specified in the method.

Sample Receipt:

All sample receipt conditions were acceptable.

Analytical:

Total Petroleum Hydrocarbons - DRO

Batch: 133824

Surrogate exceedances identified; see surrogate summary form.

TCL Volatiles plus Oxygenates

Batch: 133802

Laboratory control sample (LCS) exceedances identified; see LCS summary form.

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): 16062226
Report Prepared For: UMM Shore Regional Health Chestertown, Cl
Project Name: Chester River Hospital Center-CRHC
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 24	Initial	16062226-001	1045	W	61392	133824	06/22/2016	06/24/2016 09:08	06/29/2016 09:18
	MW 33	Initial	16062226-002	1045	W	61392	133824	06/22/2016	06/24/2016 09:08	06/29/2016 09:43
	MW 34	Initial	16062226-003	1045	W	61392	133824	06/22/2016	06/24/2016 09:08	06/29/2016 09:43
	MW 15	Initial	16062226-004	1045	W	61392	133824	06/22/2016	06/24/2016 09:08	06/29/2016 10:08
	MW 19	Initial	16062226-005	1045	W	61392	133824	06/22/2016	06/24/2016 09:08	06/29/2016 10:08
	MW 20	Initial	16062226-006	1045	W	61392	133824	06/22/2016	06/24/2016 09:08	06/29/2016 10:34
	MW 35	Initial	16062226-007	1045	W	61392	133824	06/22/2016	06/24/2016 09:08	06/29/2016 10:34
	Sys EFF	Initial	16062226-008	1045	W	61392	133824	06/22/2016	06/24/2016 09:08	06/29/2016 10:59
	61392-1-BKS	BKS	61392-1-BKS	1045	W	61392	133824	--------	06/24/2016 09:08	06/28/2016 19:54
	61392-1-BLK	BLK	61392-1-BLK	1045	W	61392	133824	--------	06/24/2016 09:08	06/28/2016 19:29
	61392-1-BSD	BSD	61392-1-BSD	1045	W	61392	133824	--------	06/24/2016 09:08	06/28/2016 20:19
SW-846 8015C	Sys EFF	Initial	16062226-008	1035	W	61399	133701	06/22/2016	06/23/2016 10:57	06/23/2016 13:12
	61399-2-BKS	BKS	61399-2-BKS	1035	W	61399	133701	--------	06/23/2016 10:57	06/23/2016 13:37
	61399-2-BLK	BLK	61399-2-BLK	1035	W	61399	133701	--------	06/23/2016 10:57	06/23/2016 12:46
	Sys EFF S	MS	16062226-008 S	1035	W	61399	133701	06/22/2016	06/23/2016 10:57	06/23/2016 18:43
	Sys EFF SD	MSD	16062226-008 SD	1035	W	61399	133701	06/22/2016	06/23/2016 10:57	06/23/2016 19:09
SW-846 8260 B	Sys EFF	Initial	16062226-008	1014	W	61462	133802	06/22/2016	06/27/2016 17:31	06/27/2016 16:04
	61462-1-BKS	BKS	61462-1-BKS	1014	W	61462	133802	--------	06/27/2016 17:31	06/27/2016 12:06
	61462-1-BLK	BLK	61462-1-BLK	1014	W	61462	133802	--------	06/27/2016 17:31	06/27/2016 14:05
	W002 S	MS	16062216-002 S	1014	W	61462	133802	06/21/2016	06/27/2016 17:31	06/27/2016 20:42
	W002 SD	MSD	16062216-002 SD	1014	W	61462	133802	06/21/2016	06/27/2016 17:31	06/27/2016 21:22

PHASE SEPARATION SCIENCE, INC.

QC Summary 16062226

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 133824 Matrix: Ground Water Date Prep: 06/24/2016
PSS Sample ID: 16062226-001

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	97	*	33-95	%	06/29/16 09:18

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 133824 Matrix: Ground Water Date Prep: 06/24/2016
PSS Sample ID: 16062226-002

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	88		33-95	%	06/29/16 09:43

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 133824 Matrix: Ground Water Date Prep: 06/24/2016
PSS Sample ID: 16062226-003

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	101	*	33-95	%	06/29/16 09:43

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 133824 Matrix: Ground Water Date Prep: 06/24/2016
PSS Sample ID: 16062226-004

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	86		33-95	%	06/29/16 10:08

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 133824 Matrix: Ground Water Date Prep: 06/24/2016
PSS Sample ID: 16062226-005

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	103	*	33-95	%	06/29/16 10:08

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QC Summary 16062226

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 133824 Matrix: Ground Water Date Prep: 06/24/2016
PSS Sample ID: 16062226-006

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	85		33-95	%	06/29/16 10:34

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 133824 Matrix: Ground Water Date Prep: 06/24/2016
PSS Sample ID: 16062226-007

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	98	*	33-95	%	06/29/16 10:34

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 133824 Matrix: Ground Water Date Prep: 06/24/2016
PSS Sample ID: 16062226-008

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	86		33-95	%	06/29/16 10:59

Analytical Method: SW-846 8015C Prep Method: SW5030B
Seq Number: 133701 Matrix: Ground Water Date Prep: 06/23/2016
PSS Sample ID: 16062226-008

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	80		55-114	%	06/23/16 13:12

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 133802 Matrix: Ground Water Date Prep: 06/27/2016
PSS Sample ID: 16062226-008

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	96		86-111	%	06/27/16 16:04
Dibromofluoromethane	108		91-119	%	06/27/16 16:04
Toluene-D8	99		90-117	%	06/27/16 16:04

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 16062226

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 133824 Matrix: Water Date Prep: 06/24/16
MB Sample Id: 61392-1-BLK LCS Sample Id: 61392-1-BKS LCSD Sample Id: 61392-1-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	0.8730	87	0.9104	91	47-106	4	20	mg/L	06/28/16 19:54	

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	LCSD Result	LCSD Flag	Limits	Units	Analysis Date
o-Terphenyl	89		81		86		33-95	%	06/28/16 19:54

Analytical Method: SW-846 8015C Prep Method: SW5030B
Seq Number: 133701 Matrix: Water Date Prep: 06/23/16
MB Sample Id: 61399-2-BLK LCS Sample Id: 61399-2-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
TPH-GRO (Gasoline Range Organic:	<100	5000	4192	84	74-132	ug/L	06/23/16 13:37	

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	77		87		55-114	%	06/23/16 13:37

Analytical Method: SW-846 8015C Prep Method: SW5030B
Seq Number: 133701 Matrix: Ground Water Date Prep: 06/23/16
Parent Sample Id: 16062226-008 MS Sample Id: 16062226-008 S MSD Sample Id: 16062226-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
TPH-GRO (Gasoline Range Organic:	<100	5000	4725	95	4476	90	49-137	5	25	ug/L	06/23/16 18:43	

Surrogate	MS Result	MS Flag	MSD Result	MSD Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotoluene	89		88		55-114	%	06/23/16 18:43

PHASE SEPARATION SCIENCE, INC.

QC Summary 16062226

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8260 B Prep Method: SW5030B
Seq Number: 133802 Matrix: Water Date Prep: 06/27/16
MB Sample Id: 61462-1-BLK LCS Sample Id: 61462-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Acetone	<10.00	50.00	49.38	99	29-149	ug/L	06/27/16 12:06	
tert-Amyl alcohol	<20.00	50.00	84.50	169	36-149	ug/L	06/27/16 12:06	H
tert-Amyl ethyl ether	<10.00	50.00	68.37	137	75-123	ug/L	06/27/16 12:06	H
tert-Amyl methyl ether	<10.00	50.00	63.65	127	73-125	ug/L	06/27/16 12:06	H
Benzene	<1.000	50.00	55.66	111	85-123	ug/L	06/27/16 12:06	
Bromochloromethane	<1.000	50.00	70.13	140	82-136	ug/L	06/27/16 12:06	H
Bromodichloromethane	<1.000	50.00	51.23	102	88-133	ug/L	06/27/16 12:06	
Bromoform	<5.000	50.00	47.65	95	80-126	ug/L	06/27/16 12:06	
Bromomethane	<1.000	50.00	51.18	102	64-139	ug/L	06/27/16 12:06	
tert-Butyl alcohol	<20.00	50.00	80.71	161	63-155	ug/L	06/27/16 12:06	H
2-Butanone (MEK)	<10.00	50.00	57.09	114	39-135	ug/L	06/27/16 12:06	
tert-Butyl ethyl ether	<10.00	50.00	74.45	149	70-128	ug/L	06/27/16 12:06	H
Carbon Disulfide	<10.00	50.00	53.94	108	85-124	ug/L	06/27/16 12:06	
Carbon Tetrachloride	<1.000	50.00	45.35	91	81-138	ug/L	06/27/16 12:06	
Chlorobenzene	<1.000	50.00	53.98	108	85-120	ug/L	06/27/16 12:06	
Chloroethane	<1.000	50.00	59.11	118	75-129	ug/L	06/27/16 12:06	
Chloroform	<1.000	50.00	78.47	157	85-128	ug/L	06/27/16 12:06	H
Chloromethane	<1.000	50.00	54.62	109	60-139	ug/L	06/27/16 12:06	
Cyclohexane	<10.00	50.00	52.02	104	55-131	ug/L	06/27/16 12:06	
1,2-Dibromo-3-Chloropropane	<10.00	50.00	48.84	98	69-127	ug/L	06/27/16 12:06	
Dibromochloromethane	<1.000	50.00	48.71	97	82-127	ug/L	06/27/16 12:06	
1,2-Dibromoethane (EDB)	<1.000	50.00	53.22	106	82-121	ug/L	06/27/16 12:06	
1,2-Dichlorobenzene	<1.000	50.00	55.77	112	82-123	ug/L	06/27/16 12:06	
1,3-Dichlorobenzene	<1.000	50.00	54.97	110	81-123	ug/L	06/27/16 12:06	
1,4-Dichlorobenzene	<1.000	50.00	54.70	109	81-121	ug/L	06/27/16 12:06	
Dichlorodifluoromethane	<1.000	50.00	51.48	103	69-147	ug/L	06/27/16 12:06	
1,1-Dichloroethane	<1.000	50.00	77.08	154	83-123	ug/L	06/27/16 12:06	H
1,2-Dichloroethane	<1.000	50.00	56.61	113	86-138	ug/L	06/27/16 12:06	
1,1-Dichloroethene	<1.000	50.00	57.17	114	85-127	ug/L	06/27/16 12:06	
cis-1,2-Dichloroethene	<1.000	50.00	83.86	168	87-127	ug/L	06/27/16 12:06	H
1,2-Dichloropropane	<1.000	50.00	56.30	113	79-125	ug/L	06/27/16 12:06	
cis-1,3-Dichloropropene	<1.000	50.00	53.21	106	79-131	ug/L	06/27/16 12:06	
trans-1,3-Dichloropropene	<1.000	50.00	53.42	107	82-133	ug/L	06/27/16 12:06	
trans-1,2-Dichloroethene	<1.000	50.00	53.72	107	85-125	ug/L	06/27/16 12:06	
Diisopropyl ether	<10.00	50.00	72.34	145	70-129	ug/L	06/27/16 12:06	H
Ethylbenzene	<1.000	50.00	55.41	111	83-123	ug/L	06/27/16 12:06	
2-Hexanone	<10.00	50.00	44.43	89	37-137	ug/L	06/27/16 12:06	
Isopropylbenzene	<1.000	50.00	48.72	97	70-131	ug/L	06/27/16 12:06	
Methyl Acetate	<10.00	50.00	56.44	113	69-127	ug/L	06/27/16 12:06	
Methylcyclohexane	<10.00	50.00	54.02	108	75-129	ug/L	06/27/16 12:06	
Methylene Chloride	<1.000	50.00	52.53	105	86-124	ug/L	06/27/16 12:06	
4-Methyl-2-Pentanone	<5.000	50.00	47.30	95	39-143	ug/L	06/27/16 12:06	
Methyl-t-butyl ether	<1.000	50.00	53.94	108	75-134	ug/L	06/27/16 12:06	
Naphthalene	<1.000	50.00	48.43	97	61-118	ug/L	06/27/16 12:06	
Styrene	<1.000	50.00	50.70	101	80-120	ug/L	06/27/16 12:06	
1,1,2,2-Tetrachloroethane	<1.000	50.00	53.49	107	64-125	ug/L	06/27/16 12:06	
Tetrachloroethene	<1.000	50.00	56.95	114	83-138	ug/L	06/27/16 12:06	
Toluene	<1.000	50.00	55.23	110	88-126	ug/L	06/27/16 12:06	
1,2,3-Trichlorobenzene	<1.000	50.00	57.93	116	75-124	ug/L	06/27/16 12:06	
1,2,4-Trichlorobenzene	<1.000	50.00	58.97	118	77-131	ug/L	06/27/16 12:06	
1,1,1-Trichloroethane	<1.000	50.00	47.13	94	68-146	ug/L	06/27/16 12:06	

PHASE SEPARATION SCIENCE, INC.

QC Summary 16062226

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8260 B

Prep Method: SW5030B

Seq Number: 133802

Matrix: Water

Date Prep: 06/27/16

MB Sample Id: 61462-1-BLK

LCS Sample Id: 61462-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
1,1,2-Trichloroethane	<1.000	50.00	54.96	110	85-124	ug/L	06/27/16 12:06	
Trichloroethene	<1.000	50.00	55.70	111	87-127	ug/L	06/27/16 12:06	
Trichlorofluoromethane	<5.000	50.00	51.65	103	77-147	ug/L	06/27/16 12:06	
1,1,2-Trichloro-1,2,2-Trifluoroethane	<1.000	50.00	53.58	107	68-135	ug/L	06/27/16 12:06	
Vinyl Chloride	<1.000	50.00	51.53	103	74-138	ug/L	06/27/16 12:06	
m,p-Xylenes	<2.000	100	110.9	111	84-124	ug/L	06/27/16 12:06	
o-Xylene	<1.000	50.00	50.91	102	79-126	ug/L	06/27/16 12:06	

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	100		103		86-111	%	06/27/16 12:06
Dibromofluoromethane	126	*	120	*	91-119	%	06/27/16 12:06
Toluene-D8	89	*	100		90-117	%	06/27/16 12:06

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: UMM *OFFICE LOC. Wilmington, DE

*PROJECT MGR: Ken Harron *PHONE NO.: (302) 656 9600

EMAIL: kharron@brightfields inc.com FAX NO.: (302) 656 9700

*PROJECT NAME: CRHC PROJECT NO.:

SITE LOCATION: Chestertown, MD P.O. NO.:

SAMPLER(S): M Chester N. Bradley DW CERT NO.:

PSS Work Order #: 160622226 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	TPH-DRO vis 8015	VOC/GRO w/ Oxygenates		REMARKS
					Preservatives Used		None	HCL		
1	MW 24	6/22/16	1030	GW	1	G	X			
2	MW 33		1040				X			
3	MW 34		1050				X			
4	MW 15		1100				X			
5	MW 19		1110				X			
6	MW 20		1120				X			
7	MW 35		1130				X			
8	Sys EFF	6/22/16	1140	GW	5		X	X	X	

(5)

Relinquished By: (1)	Date	Time	Received By:
[signature]	6/22/16	1315	[signature] 538
Relinquished By: (2)	Date	Time	Received By:
[signature] 538	6/22/16	2:51	[signature]
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: 2

Custody Seal: ABS

Ice Present: PRES Temp: 8°2°C

Shipping Carrier: TTE

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 #	16062226	**Received By**	Rachel Davis
Client Name	UMM Shore Regional Health Chester	**Date Received**	06/22/2016 02:51:00 PM
Project Name	CRHC	**Delivered By**	Trans Time Express
Disposal Date	07/27/2016	**Tracking No**	Not Applicable
		Logged In By	Rachel Davis

Shipping Container(s)

No. of Coolers 1

		Ice	Present
Custody Seal(s) Intact?	N/A	Temp (deg C)	2
Seal(s) Signed / Dated?	N/A	Temp Blank Present	No
		Ice	Present
Custody Seal(s) Intact?	N/A	Temp (deg C)	8
Seal(s) Signed / Dated?	N/A	Temp Blank Present	No

Documentation

COC agrees with sample labels?	Yes	Sampler Name	Not Provided
Chain of Custody	Yes		N/A

Sample Container

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

Total No. of Samples Received 8

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

Phase Separation Science, Inc

Sample Receipt Checklist

Work Order #	16062226	**Received By**	Rachel Davis
Client Name	UMM Shore Regional Health Chester	**Date Received**	06/22/2016 02:51:00 PM
Project Name	CRHC	**Delivered By**	Trans Time Express
Disposal Date	07/27/2016	**Tracking No**	Not Applicable
		Logged In By	Rachel Davis

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.

Samples Inspected/Checklist Completed By: Rachel Davis — Date: 06/22/2016

PM Review and Approval: Lynn Jackson — Date: 06/22/2016

Analytical Report for

UMM Shore Regional Health Chestertown

Certificate of Analysis No.: 16062305

Project Manager: Ken Hannon

Project Name : CRHC

Project Location: Chestertown, MD

July 11, 2016

Phase Separation Science, Inc.

6630 Baltimore National Pike
Baltimore, MD 21228
Phone: (410) 747-8770
Fax: (410) 788-8723

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PHASE SEPARATION SCIENCE, INC.

July 11, 2016

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

Reference: PSS Work Order(s) No: **16062305**
Project Name: CRHC
Project Location: Chestertown, MD

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 **16062305**.

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 28, 2016, with the exception of air canisters which are cleaned immediately following analysis. 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 Chestertown

Project Name: CRHC

Work Order Number(s): 16062305

The following samples were received under chain of custody by Phase Separation Science (PSS) on 06/23/2016 at 12:50 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
16062305-001	MW 5	GROUND WATER	06/22/16 13:00
16062305-002	MW 13	GROUND WATER	06/22/16 13:10
16062305-003	MW 32	GROUND WATER	06/22/16 13:20
16062305-004	MW 46	GROUND WATER	06/22/16 13:30
16062305-005	MW 16	GROUND WATER	06/22/16 12:00
16062305-006	MW 48	GROUND WATER	06/22/16 12:10
16062305-007	MW 49	GROUND WATER	06/22/16 12:20
16062305-008	MW 50	GROUND WATER	06/22/16 12:30
16062305-009	MW 5	GROUND WATER	06/22/16 13:00
16062305-010	MW 13	GROUND WATER	06/22/16 13:10
16062305-011	MW 32	GROUND WATER	06/22/16 13:20
16062305-012	MW 46	GROUND WATER	06/22/16 13:30

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)].
7. Method 180.1, The Determination of Turbidity by Nephelometry, recommends samples over 40 NTU be diluted until the turbidity falls below 40 units. Routine samples over 40 NTU may not be diluted as long as the data quality objectives are not affected.
8. Alkalinity results analyzed by EPA 310.2 that are reported by dilution are estimated and are not in compliance with method requirements.

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 MDL.
MDL	This is the Laboratory Method Detection Limit which is equivalent to the Limit of Detection (LOD). The LOD is an estimate of the minimum amount of a substance that an analytical process can reliably detect. This value will remain constant across multiple similar instrumentation and among different analysts. An LOD is analyte and matrix specific.
ND	Not Detected at or above the reporting limit.
RL	PSS Reporting Limit.
U	Not detected.

Sample Summary

Client Name: UMM Shore Regional Health Chestertown
Project Name: CRHC

Work Order Number(s): 16062305

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

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ROUTE 40 WEST
BALTIMORE, MD 21228
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800-932-9047
FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 16062305

UMM Shore Regional Health Chestertown, Chestertown, MD

July 11, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 5 **Date/Time Sampled: 06/22/2016 13:00** **PSS Sample ID: 16062305-001**
Matrix: GROUND WATER **Date/Time Received: 06/23/2016 12:50**

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)	**0.62**	mg/L	0.10		1	06/24/16	06/28/16 19:29	1045

Sample ID: MW 13 **Date/Time Sampled: 06/22/2016 13:10** **PSS Sample ID: 16062305-002**
Matrix: GROUND WATER **Date/Time Received: 06/23/2016 12:50**

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)	**4.2**	mg/L	0.10		1	06/24/16	06/28/16 19:54	1045

Sample ID: MW 32 **Date/Time Sampled: 06/22/2016 13:20** **PSS Sample ID: 16062305-003**
Matrix: GROUND WATER **Date/Time Received: 06/23/2016 12:50**

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	06/24/16	06/28/16 20:19	1045

Sample ID: MW 46 **Date/Time Sampled: 06/22/2016 13:30** **PSS Sample ID: 16062305-004**
Matrix: GROUND WATER **Date/Time Received: 06/23/2016 12:50**

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)	**0.84**	mg/L	0.10		1	06/24/16	06/28/16 20:44	1045

Sample ID: MW 16 **Date/Time Sampled: 06/22/2016 12:00** **PSS Sample ID: 16062305-005**
Matrix: GROUND WATER **Date/Time Received: 06/23/2016 12:50**

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)	**0.11**	mg/L	0.10		1	06/24/16	06/28/16 20:44	1045

Sample ID: MW 48 **Date/Time Sampled: 06/22/2016 12:10** **PSS Sample ID: 16062305-006**
Matrix: GROUND WATER **Date/Time Received: 06/23/2016 12:50**

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	06/24/16	06/28/16 21:09	1045

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS
No: 16062305
UMM Shore Regional Health Chestertown, Chestertown, MD
July 11, 2016

Project Name: CRHC
Project Location: Chestertown, MD

Sample ID: MW 49 **Date/Time Sampled: 06/22/2016 12:20** **PSS Sample ID: 16062305-007**
Matrix: GROUND WATER **Date/Time Received: 06/23/2016 12:50**

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	06/24/16	06/28/16 21:09	1045

Sample ID: MW 50 **Date/Time Sampled: 06/22/2016 12:30** **PSS Sample ID: 16062305-008**
Matrix: GROUND WATER **Date/Time Received: 06/23/2016 12:50**

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	06/24/16	06/29/16 09:18	1045

Rogers & Callcott ENVIRONMENTAL

Laboratory Services

Laboratory Report

Client	Phase Separation Science, Inc. Lynn Jackson 6630 Baltimore National Pike Baltimore, MD 21228	**Project:** **Work Order:** **Received:**	Routine 6060965 06/24/2016 09:40

Dear Client:

Rogers and Callcott appreciates the opportunity to be of service to you. The attached laboratory services report includes analytical results and chain of custody for samples that were received on June 24, 2016. Rogers and Callcott maintains a formal QA/QC program. Unless otherwise noted, all analyses performed under NELAP certification have complied with all the requirements for the TNI standard. The analyses met the QA/QC confidence interval for each test method unless otherwise qualified. Estimated uncertainty is available upon request.

Privileged / Confidential information may be contained in this report and is intended only for the use of the addressee. If you are not the addressee, or the person responsible for delivering to the person addressed, you may not copy or deliver this message to anyone else. If you receive this message by mistake, please notify Rogers and Callcott immediately.

We strive to provide excellent service to our clients. Please contact Melissa Riddle, your Project Manager, at melissa.riddle@rogersandcallcott.com or (864)-232-1556 if you have any questions about this report.

Report Approved By:

Melissa M Riddle

Melissa Riddle
Project Manager

PO Box 5655 | Greenville, SC 29606 | 426 Fairforest Way | Greenville, SC 29607 | main 864.232.1556 | fax 864.232.6140 rogersandcallcott.com
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Rogers & Callcott ENVIRONMENTAL

Certificate of Analysis

South Carolina Greenville Laboratory Identification 23105
South Carolina Columbia Laboratory Identification 40572
North Carolina Laboratory Certification Number 27
North Carolina Drinking Water Lab Number 45710
NELAP Utah Certificate Number SC000042014-1
Georgia Drinking Water Lab ID 880

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

Project: Routine
Work Order: 6060965
Received: 06/24/2016 09:40

Sample Number	Sample Description	Matrix	Sampled	Type
6060965-01	16062305-009 MW5	Wastewater	06/22/16 13:00	
6060965-02	16062305-010 MW13	Wastewater	06/22/16 13:10	
6060965-03	16062305-011 MW32	Wastewater	06/22/16 13:20	
6060965-04	16062305-012 MW46	Wastewater	06/22/16 13:30	

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Rogers & Callcott ENVIRONMENTAL

Phase Separation Science, Inc.		Project:	Routine
6630 Baltimore National Pike		Work Order:	6060965
Baltimore, MD 21228		Reported:	07/08/16 09:24

Sample Data

Sample Number 6060965-01
Sample Description 16062305-009 MW5 collected on 06/22/16 13:00

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	ND	1.40	mg/L	1.00	06/28/16 10:30	SM 5540D-2011		SGM	B6G0209

Sample Number 6060965-02
Sample Description 16062305-010 MW13 collected on 06/22/16 13:10

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	**28.9**	3.50	mg/L	2.50	06/28/16 11:10	SM 5540D-2011		SGM	B6G0209

Sample Number 6060965-03
Sample Description 16062305-011 MW32 collected on 06/22/16 13:20

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	ND	1.40	mg/L	1.00	06/29/16 10:55	SM 5540D-2011		SGM	B6G0209

Sample Number 6060965-04
Sample Description 16062305-012 MW46 collected on 06/22/16 13:30

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Surfactants, CTAS as C12-18 E11	**6.64**	1.40	mg/L	1.00	07/01/16 08:15	SM 5540D-2011		SGM	B6G0209

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Data Qualifiers and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not reported

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60660965

Chain of Custody Form for Subcontracted Analyses

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

W.O. No. : **16062305**
P.O. No. :
Project Number : N/A
Report To LOD : No

Samples Transferred To:
Rogers & Callcott Environmental
PO Box 5655
Greenville, SC 29606

Shipping address is 426 Fairforest Way Greenville,
Phone : 1-866-805-9596

For Questions or issues please contact: Lynn Jackson

Report Due On :06/30/16 05:00

Lab Sample ID	Field Sample ID	Date Sampled	Time Sampled	Matrix	Analyses Required	Method	Type of Container	Preservative	
16062305-009	MW 5	06/22/16	13:00	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL	-01
16062305-010	MW 13	06/22/16	13:10	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL	-02
16062305-011	MW 32	06/22/16	13:20	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL	-03
16062305-012	MW 46	06/22/16	13:30	Water	Nonionic Surfactants	SM5540D	500 ml HDPE	COOL	-04

Data Deliverables Required: COA

Perform Q.C. on Sample :

Send Report Attn : reporting@phaseonline.com

Send InvoiceAttn : invoicing@phaseonline.com

Airbill No.: Carrier : UPS

Condition Upon Receipt :

Comments :

Samples Relinquished By : [signature] Date : 6/23/16 Time: 1315 Samples Received By : UPS

Samples Relinquished By: UPS Date : 6.24.16 Time : 0940 Samples Received By: [signature]

Samples Relinquished By: Date: Time: Samples Received By:

R+C Temp @ Rec 2.4°C

Rogers & Callcott ENVIRONMENTAL

Sample Receipt Verification

Client: PHASE Date Received: 6.24.16 Work Order: 60609065

Carrier Name: Client FedEx (UPS) US Mail Courier Field Services Other: _____

Tracking Number: 1Z231 3E4 0158 1596 79

Receipt Criteria	Yes	No	NA	Comments
Shipping container / cooler intact?	X			Damaged Leaking Other:
Custody seals intact?			X	
COC included with samples?	X			
COC signed when relinquished and received?	X			
Sample bottles intact?	X			Damaged Leaking Other:
Sample ID on COC agree with label on bottle(s)?	X			
Date / time on COC agree with label on bottle(s)?	X			
Number of bottles on COC agrees with number of bottles received?	X			
Samples received within holding time? VRU 6.24.16	X		X	No published holding time
Sample volume sufficient for analysis?	X			
VOA vials free of headspace (<6mm bubble)?			X	
Samples cooled? Temp at receipt recorded on COC; Temp measured with IR thermometer - SN: 97050067	X			(Ice) Cold Packs Dry Ice None
Samples requiring pH preservation at proper pH? Note: Samples for metals analysis may be preserved upon receipt in the lab.			X	
Samples dechlorinated for parameters requiring chlorine removal at the time of sample collection?			X	

If in-house preservation used – record Lot #			
HCL		H_3PO_4	
H_2SO_4		NaOH	
HNO_3		Other	

Comments:

Were non-conformance issues noted at sample receipt? Yes or (No)

Non-Conformance issue other than noted above:

Revised July 2014

Completed by: VRU

Case Narrative Summary

Client Name: UMM Shore Regional Health Chestertown

Project Name: CRHC

Work Order Number(s): 16062305

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.

Matrix spike and matrix spike duplicate analyses may not be performed due to insufficient sample quantity. In these instances, a laboratory control sample and laboratory control sample duplicate are analyzed unless otherwise noted or specified in the method.

Sample Receipt:

All sample receipt conditions were acceptable.

Analyses associated with analyst code 4056 were performed by Rogers & Callcott Environmental - UT SC00004

Analytical:

Total Petroleum Hydrocarbons - DRO

Batch: 133824

Surrogate exceedances identified; see surrogate summary form.

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): 16062305
Report Prepared For: UMM Shore Regional Health Chestertown, Cl
Project Name: Chester River Hospital Center-CRHC
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 5	Initial	16062305-001	1045	W	61392	133824	06/22/2016	06/24/2016 09:08	06/28/2016 19:29
	MW 13	Initial	16062305-002	1045	W	61392	133824	06/22/2016	06/24/2016 09:08	06/28/2016 19:54
	MW 32	Initial	16062305-003	1045	W	61392	133824	06/22/2016	06/24/2016 09:08	06/28/2016 20:19
	MW 46	Initial	16062305-004	1045	W	61392	133824	06/22/2016	06/24/2016 09:08	06/28/2016 20:44
	MW 16	Initial	16062305-005	1045	W	61392	133824	06/22/2016	06/24/2016 09:08	06/28/2016 20:44
	MW 48	Initial	16062305-006	1045	W	61392	133824	06/22/2016	06/24/2016 09:08	06/28/2016 21:09
	MW 49	Initial	16062305-007	1045	W	61392	133824	06/22/2016	06/24/2016 09:08	06/28/2016 21:09
	MW 50	Initial	16062305-008	1045	W	61392	133824	06/22/2016	06/24/2016 09:08	06/29/2016 09:18
	61392-1-BKS	BKS	61392-1-BKS	1045	W	61392	133824	--------	06/24/2016 09:08	06/28/2016 19:54
	61392-1-BLK	BLK	61392-1-BLK	1045	W	61392	133824	--------	06/24/2016 09:08	06/28/2016 19:29
	61392-1-BSD	BSD	61392-1-BSD	1045	W	61392	133824	--------	06/24/2016 09:08	06/28/2016 20:19

PHASE SEPARATION SCIENCE, INC.

QC Summary 16062305

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 133824 Matrix: Ground Water Date Prep: 06/24/2016
PSS Sample ID: 16062305-001

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	98	*	33-95	%	06/28/16 19:29

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 133824 Matrix: Ground Water Date Prep: 06/24/2016
PSS Sample ID: 16062305-002

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	109	*	33-95	%	06/28/16 19:54

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 133824 Matrix: Ground Water Date Prep: 06/24/2016
PSS Sample ID: 16062305-003

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	97	*	33-95	%	06/28/16 20:19

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 133824 Matrix: Ground Water Date Prep: 06/24/2016
PSS Sample ID: 16062305-004

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	97	*	33-95	%	06/28/16 20:44

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 133824 Matrix: Ground Water Date Prep: 06/24/2016
PSS Sample ID: 16062305-005

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	105	*	33-95	%	06/28/16 20:44

PHASE SEPARATION SCIENCE, INC.

QC Summary 16062305

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 133824 Matrix: Ground Water Date Prep: 06/24/2016
PSS Sample ID: 16062305-006

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	92		33-95	%	06/28/16 21:09

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 133824 Matrix: Ground Water Date Prep: 06/24/2016
PSS Sample ID: 16062305-007

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	109	*	33-95	%	06/28/16 21:09

Analytical Method: SW-846 8015 C Prep Method: SW3510C
Seq Number: 133824 Matrix: Ground Water Date Prep: 06/24/2016
PSS Sample ID: 16062305-008

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl	92		33-95	%	06/29/16 09:18

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 16062305

UMM Shore Regional Health Chestertown
CRHC

Analytical Method: SW-846 8015 C Prep Method: SW3510C

Seq Number: 133824 Matrix: Water Date Prep: 06/24/16

MB Sample Id: 61392-1-BLK LCS Sample Id: 61392-1-BKS LCSD Sample Id: 61392-1-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	0.8730	87	0.9104	91	47-106	4	20	mg/L	06/28/16 19:54	

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	LCSD Result	LCSD Flag	Limits	Units	Analysis Date
o-Terphenyl	89		81		86		33-95	%	06/28/16 19:54

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

PSS Work Order #: 16062305 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

1

*CLIENT: UMM *OFFICE LOC. Wilmington, DE
*PROJECT MGR: Ken Hannon *PHONE NO.: (302) 656-9600
EMAIL: khannon@doriotwilliams.com FAX NO.: (302) 656 9700
*PROJECT NAME: CRHC PROJECT NO.:
SITE LOCATION: Chestertown, MD P.O. NO.:
SAMPLER(S): M. Cooksey N. Bradley DW CERT NO.:

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 *: TKN-350.1 NO3 9056	REMARKS
1	MW 5	6/22/16	1300	GW	1	G			
2	MW 13		1310						
3	MW 32		1320						
4	MW 46		1330						
5	MW 16		1200						
6	MW 48		1210						
7	MW 49		1220						
8	MW 50		1230						

5

Relinquished By:	Date	Time	Received By:
(1) Nicholas Bradley	6/23/16	1074	Michelle 538
(2) Michelle 538	6/23/16	12:50	[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: PRES Temp: 6.2°c
Shipping Carrier: TTE

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: UMM *OFFICE LOC.: Wilmington, DE
*PROJECT MGR: Ken Hannon *PHONE NO.: (302) 656 9600
EMAIL: khannon@brightfieldsinc.com FAX NO.: (302) 656 9700
*PROJECT NAME: CRHC PROJECT NO.:
SITE LOCATION: Chestertown MD P.O. NO.:
SAMPLER(S): M Crosby N. Bradley DW CERT NO.:

PSS Work Order #: 16062305 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	Preservatives Used: None	Analysis/ Method Required (3) * Sulfate EPA 300.0	Sulfate EPA SM5540D	REMARKS
9	MW 5	6/22/16	1300	GW	1	G		X		
10	MW 13	↓	1310	↓	1	↓		X		
11	MW 32	↓	1320	↓	1	↓		X		
12	MW 46	↓	1330	↓	1	↓		X		
40										

(5)

Relinquished By: (1)	Date	Time	Received By:
Nicholas Bradley	6/23/16	1034	[illegible] 538
Relinquished By: (2)	Date	Time	Received By:
[illegible] 538	6/23/16	1250	[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: 2
Custody Seal: ABS
Ice Present: PLES Temp: 6.2°C
Shipping Carrier: TTE

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 #	16062305	**Received By**	Rachel Davis
Client Name	UMM Shore Regional Health Chester	**Date Received**	06/23/2016 12:50:00 PM
Project Name	CRHC	**Delivered By**	Trans Time Express
Disposal Date	07/28/2016	**Tracking No**	Not Applicable
		Logged In By	Rachel Davis

Shipping Container(s)

No. of Coolers 1

		Ice	Present
Custody Seal(s) Intact?	N/A	Temp (deg C)	2
Seal(s) Signed / Dated?	N/A	Temp Blank Present	No
		Ice	Present
Custody Seal(s) Intact?	N/A	Temp (deg C)	6
Seal(s) Signed / Dated?	N/A	Temp Blank Present	No

Documentation

COC agrees with sample labels?	Yes	Sampler Name	Not Provided
Chain of Custody	Yes		N/A

Sample Container

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

Total No. of Samples Received 12

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)	N/A
Do VOA vials have zero headspace?		N/A
624 VOC (Rcvd at least one unpreserved VOA vial)		N/A

Phase Separation Science, Inc

Sample Receipt Checklist

Work Order #	16062305	**Received By**	Rachel Davis
Client Name	UMM Shore Regional Health Chester	**Date Received**	06/23/2016 12:50:00 PM
Project Name	CRHC	**Delivered By**	Trans Time Express
Disposal Date	07/28/2016	**Tracking No**	Not Applicable
		Logged In By	Rachel Davis

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.

Samples Inspected/Checklist Completed By: Rachel Davis — Date: 06/23/2016

PM Review and Approval: Betsy Orr — Date: 07/11/2016

APPENDIX B

WELL GAUGING & FIELD REPORTS

PETROLEUM PRODUCT / WATER - LEVEL DATA SHEET

W.O. #:

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

DATE: **20-Apr-2016**
WEATHER: **Sunny 60's, light SW winds**
COLLECTED BY: **MC / JCT**
ENTERED BY: **NSB**

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)	Depth to Bottom (ft)	Fluid Level Elevation (ft msl)	Corrected Water Elevation (ft msl)	Estimated Amount Product Recovered (gal) / NOTES:
MW-1	Lip of Casing	57.05		46.46	58.30	10.59	10.59	
MW-2	Lip of Casing	56.37		45.94	59.38	10.43	10.43	
MW-3	Lip of Casing	50.55		40.79	57.81	9.76	9.76	
MW-4	Lip of Casing	53.40		43.02	62.03	10.38	10.38	
MW-5	Lip of Casing	61.08		50.51	63.87	10.57	10.57	
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	46.60		38.56	45.23	8.04	8.04	
MW-10	Lip of Casing	--------	--------	--------	--------	--------	--------	Well abandoned Nov 2012
MW-10R	Lip of Casing	48.70		40.65	55.50	8.05	8.05	
MW-11	Lip of Casing	41.49		33.10	41.96	8.39	8.39	
MW-12	Lip of Casing	44.46		35.54	47.91	8.92	8.92	
MW-13	Lip of Casing	41.70		34.34	42.98	7.36	7.36	
MW-14	Lip of Casing	41.38		34.84	40.55	6.54	6.54	
MW-15	Lip of Casing	35.01				--------	--------	
MW-16	Lip of Casing	35.55		27.47	37.88	8.08	8.08	
MW-17	Lip of Casing	35.49		26.75	37.47	8.74	8.74	
MW-18	Lip of Casing	35.82		27.65	38.22	8.17	8.17	
MW-19	Lip of Casing	38.85		31.29	41.84	7.56	7.56	
MW-20	Lip of Casing	38.72		31.33	42.71	7.39	7.39	
MW-21	Lip of Casing	38.55		30.28	42.89	8.27	8.27	
MW-22	Lip of Casing	47.04				--------	--------	
MW-23	Lip of Casing	35.95		27.87	38.82	8.08	8.08	

PETROLEUM PRODUCT / WATER - LEVEL DATA SHEET

W.O. #:

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

DATE: **20-Apr-2016**
WEATHER: **Sunny 60's, light SW winds**
COLLECTED BY: **MC / JCT**
ENTERED BY: **NSB**

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)	Depth to Bottom (ft)	Fluid Level Elevation (ft msl)	Corrected Water Elevation (ft msl)	Estimated Amount Product Recovered (gal) / NOTES:
MW-24	Lip of Casing	36.56		28.44	38.85	8.12	8.12	
MW-25	Lip of Casing	36.10		27.73	39.04	8.37	8.37	
MW-27	Lip of Casing	--------	--------	--------	--------	--------	--------	Well abandoned Nov 2006
MW-28	Lip of Casing	35.90		27.19	37.83	8.71	8.71	
MW-29	Lip of Casing	35.15		27.06	38.44	8.09	8.09	
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		38.30	55.12	9.10	9.10	
MW-32	Lip of Casing	47.41		39.14	48.82	8.27	8.27	
MW-33	Lip of Casing	36.52		28.60	40.29	7.92	7.92	
MW-34	Lip of Casing	36.64		28.77	40.18	7.87	7.87	
MW-35	Lip of Casing	38.62		30.62	42.14	8.00	8.00	
MW-37	Lip of Casing	50.54		40.58	65.04	9.96	9.96	
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		40.91		-0.37	-0.37	Slight odor
RW-3B	Lip of Casing	39.45		47.01	-	-7.56	-7.56	
MW-40	Lip of Casing	48.88		41.42	55.79	7.46	7.46	
MW-41	Lip of Casing	43.15		36.96	51.68	6.19	6.19	
RW-4	Lip of Casing	48.15		47.44		0.71	0.71	
RW-5	Lip of Casing	43.34		42.43		0.91	0.91	
RW-6	Lip of Casing	47.22		41.54		5.68	5.68	
RW-2A	Lip of Casing	--------	--------	--------	--------	--------	--------	Well abandoned Mar 2008
RW-2B	Lip of Casing	--------	--------	--------	--------	--------	--------	Well abandoned Mar 2008

PETROLEUM PRODUCT / WATER - LEVEL DATA SHEET

W.O. #:

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

DATE: **20-Apr-2016**
WEATHER: **Sunny 60's, light SW winds**
COLLECTED BY: **MC / JCT**
ENTERED BY: **NSB**

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)	Depth to Bottom (ft)	Fluid Level Elevation (ft msl)	Corrected Water Elevation (ft msl)	Estimated Amount Product Recovered (gal) / NOTES:
MP-2B	Lip of Casing							
RW-2C	Lip of Casing	--------	--------	--------	--------	--------	--------	Well abandoned Sep 2003
RW-3A	Lip of Casing	--------	--------	--------	--------	--------	--------	Well abandoned Sep 2003
MP-3A	Lip of Casing							Collapsed well - not able to sample
MW-42	Lip of Casing	47.11		39.02	50.03	8.09	8.09	
MW-43	Lip of Casing	47.90		40.71	51.36	7.19	7.19	
MW-44	Lip of Casing	47.20		38.67	50.49	8.53	8.53	
MW-45	Lip of Casing	40.70		32.95	44.31	7.75	7.75	
MW-46	Lip of Casing	40.89		34.30	46.69	6.59	6.59	
MW-47	Lip of Casing	40.74		34.18	50.03	6.56	6.56	Sewer odor
MW-48	Lip of Casing	36.22		28.02	54.06	8.20	8.20	
MW-49	Lip of Casing	35.49		27.27	54.08	8.22	8.22	
MW-50	Lip of Casing	35.64		27.54	53.98	8.10	8.10	
IW-1	Lip of Casing	--------				--------	--------	

Project Name:	**Chester River Hospital Center**	Date:	Thursday, April 07, 2016
Project #:	3111.01.52	Time on - site:	9:00 AM
Location:	**Chestertown, Maryland**	Weather:	Partly Cloudy 60F
Personnel present at site:	MC	Vehicle:	1

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	☑	☐	☐	Effluent Sample
	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)	☑	☐	☐	22	14	
	BF-2 (Primary - 50 micron bag)	☑	☐	☐	20	15	
	BF-3 (Secondary (25 micron bag)	☑	☐	☐	20	12	
	BF-4 (Primary - 50 micron bag)	☑	☐	☐	22	14	

Recovery Wells	Actively Pumping	yes	no	n/a	DTW	DTP	GPM	**Totalizer**	Comments
	RW-2D	☑	☐	☐	NA	N/A	20.92	883257	DTW not collected
	RW-3B	☑	☐	☐	NA	N/A	~20	N/A	Waiting for totalizer Battery
	RW-4	☑	☐	☐	NA	N/A	15.58	67167234	DTW not collected
	RW-5	☑	☐	☐	NA	N/A	13.20	14308886	DTW not collected
	RW-6	☑	☐	☐	NA	N/A	14.22	37770480	DTW not collected
	MW-22	☑	☐	☐	NA	N/A	12.62	3459035	DTW not collected

Site Visit Summary	Changed out 3 myclex filters in each unit. The system was cycling upon arrival. Last BF changeout 4/4/16 by hospital maintenance staff. System effluent sample collected @ 10:00 RW-3B battery is dead. Trying to locate replacement as unit and battery manufacturing has been discontinued.

Project Name:	**Chester River Hospital Center**	Date:	Wednesday, April 27, 2016
Project #:	3111.01.52	Time on - site:	9:00 AM
Location:	**Chestertown, Maryland**	Weather:	Cloudy, Lt. Rain 60F
Personnel present at site:	MC	Vehicle:	1

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)	☑	☐	☐	16	14	
	BF-2 (Primary - 50 micron bag)	☑	☐	☐	16	16	
	BF-3 (Secondary (25 micron bag)	☑	☐	☐	15	12	
	BF-4 (Primary - 50 micron bag)	☑	☐	☐	16	13	

Recovery Wells	Actively Pumping	yes	no	n/a	DTW	DTP	GPM	**Totalizer**	Comments
	RW-2D	☑	☐	☐	NA	N/A	~20	N/A	Waiting for totalizer Battery
	RW-3B	☑	☐	☐	NA	N/A	~20	N/A	Waiting for totalizer Battery
	RW-4	☑	☐	☐	NA	N/A	14.63	67460601	DTW not collected
	RW-5	☑	☐	☐	NA	N/A	12.51	14545796	DTW not collected
	RW-6	☑	☐	☐	NA	N/A	13.44	38037861	DTW not collected
	MW-22	☑	☐	☐	NA	N/A	12.24	3709245	DTW not collected

Site Visit Summary	Changed out 3 myclex filters in each unit. The system was cycling upon arrival. Last BF changeout 4/25/16 by hospital maintenance staff. RW-3B and 2D batteries are dead. Trying to locate replacement as unit and battery manufacturing has been discontinued.

PETROLEUM PRODUCT / WATER - LEVEL DATA SHEET

W.O. #:

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

DATE: **24-May-2016**
WEATHER: **Sunny 60's, light SW winds**
COLLECTED BY: **MC / JCT**
ENTERED BY: **MC**

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)	Depth to Bottom (ft)	Fluid Level Elevation (ft msl)	Corrected Water Elevation (ft msl)	Estimated Amount Product Recovered (gal) / NOTES:
MW-1	Lip of Casing	57.05		46.03	58.30	11.02	11.02	
MW-2	Lip of Casing	56.37		45.47	59.32	10.90	10.90	
MW-3	Lip of Casing	50.55		39.97		10.58	10.58	
MW-4	Lip of Casing	53.40		42.59	62.04	10.81	10.81	
MW-5	Lip of Casing	61.08		50.03		11.05	11.05	
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	46.60		37.03	45.20	9.57	9.57	
MW-10	Lip of Casing	--------	--------	--------	--------	--------	--------	Well abandoned Nov 2012
MW-10R	Lip of Casing	48.70		39.11	55.48	9.59	9.59	
MW-11	Lip of Casing	41.49		32.18	41.78	9.31	9.31	
MW-12	Lip of Casing	44.46		34.71		9.75	9.75	
MW-13	Lip of Casing	41.70		32.86		8.84	8.84	
MW-14	Lip of Casing	41.38		32.40		8.98	8.98	
MW-15	Lip of Casing	35.01		26.27	43.75	8.74	8.74	
MW-16	Lip of Casing	35.55		26.97	37.87	8.58	8.58	
MW-17	Lip of Casing	35.49		26.55		8.94	8.94	
MW-18	Lip of Casing	35.82		27.52		8.30	8.30	
MW-19	Lip of Casing	38.85		30.21	41.81	8.64	8.64	
MW-20	Lip of Casing	38.72		30.10	42.72	8.62	8.62	
MW-21	Lip of Casing	38.55		29.66		8.89	8.89	
MW-22	Lip of Casing	47.04		37.69		9.35	9.35	
MW-23	Lip of Casing	35.95		27.73		8.22	8.22	

PETROLEUM PRODUCT / WATER - LEVEL DATA SHEET

W.O. #:

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

DATE: **24-May-2016**
WEATHER: **Sunny 60's, light SW winds**
COLLECTED BY: **MC / JCT**
ENTERED BY: **MC**

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)	Depth to Bottom (ft)	Fluid Level Elevation (ft msl)	Corrected Water Elevation (ft msl)	Estimated Amount Product Recovered (gal) / NOTES:
MW-24	Lip of Casing	36.56		27.97	38.84	8.59	8.59	
MW-25	Lip of Casing	36.10		27.54		8.56	8.56	
MW-27	Lip of Casing	--------	--------	--------	--------	--------	--------	Well abandoned Nov 2006
MW-28	Lip of Casing	35.90		27.08		8.82	8.82	
MW-29	Lip of Casing	35.15		26.98		8.17	8.17	
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		37.52		9.88	9.88	
MW-32	Lip of Casing	47.41		37.98		9.43	9.43	
MW-33	Lip of Casing	36.52		27.88	40.28	8.64	8.64	
MW-34	Lip of Casing	36.64		28.03	40.19	8.61	8.61	
MW-35	Lip of Casing	38.62		29.80	41.88	8.82	8.82	
MW-37	Lip of Casing	50.54		39.94		10.60	10.60	
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		32.28		8.26	8.26	Slight odor
RW-3B	Lip of Casing	39.45		29.92		9.53	9.53	
MW-40	Lip of Casing	48.88		39.62		9.26	9.26	
MW-41	Lip of Casing	43.15		33.97	51.71	9.18	9.18	
RW-4	Lip of Casing	48.15		41.27		6.88	6.88	
RW-5	Lip of Casing	43.34		34.69		8.65	8.65	
RW-6	Lip of Casing	47.22		39.99		7.23	7.23	
RW-2A	Lip of Casing	--------	--------	--------	--------	--------	--------	Well abandoned Mar 2008
RW-2B	Lip of Casing	--------	--------	--------	--------	--------	--------	Well abandoned Mar 2008

PETROLEUM PRODUCT / WATER - LEVEL DATA SHEET

W.O. #:

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

DATE: **24-May-2016**
WEATHER: **Sunny 60's, light SW winds**
COLLECTED BY: **MC / JCT**
ENTERED BY: **MC**

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)	Depth to Bottom (ft)	Fluid Level Elevation (ft msl)	Corrected Water Elevation (ft msl)	Estimated Amount Product Recovered (gal) / NOTES:
MP-2B	Lip of Casing							
RW-2C	Lip of Casing	--------	--------	--------	--------	--------	--------	Well abandoned Sep 2003
RW-3A	Lip of Casing	--------	--------	--------	--------	--------	--------	Well abandoned Sep 2003
MP-3A	Lip of Casing							Collapsed well - not able to sample
MW-42	Lip of Casing	47.11		37.55	51.38	9.56	9.56	
MW-43	Lip of Casing	47.90		38.74	51.38	9.16	9.16	
MW-44	Lip of Casing	47.20		37.69		9.51	9.51	
MW-45	Lip of Casing	40.70		31.68	44.24	9.02	9.02	
MW-46	Lip of Casing	40.89		32.20		8.69	8.69	
MW-47	Lip of Casing	40.74		32.22	50.06	8.52	8.52	Sewer odor
MW-48	Lip of Casing	36.22		27.50	54.07	8.72	8.72	
MW-49	Lip of Casing	35.49		26.88	54.07	8.61	8.61	
MW-50	Lip of Casing	35.64		27.06	44.98	8.58	8.58	
IW-1	Lip of Casing	--------				--------	--------	

Project Name:	**Chester River Hospital Center**	Date:	Wednesday, May 11, 2016
Project #:	3111.01.52	Time on - site:	9:00 AM
Location:	**Chestertown, Maryland**	Weather:	Cloudy, Lt. W. Winds 50F
Personnel present at site:	MC	Vehicle:	1

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	☑	☐	☐	Effluent sample @ 10:45
	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)	☑	☐	☐	16	14	
	BF-2 (Primary - 50 micron bag)	☑	☐	☐	16	13	
	BF-3 (Secondary (25 micron bag)	☑	☐	☐	15	12	
	BF-4 (Primary - 50 micron bag)	☑	☐	☐	16	13	

Recovery Wells	Actively Pumping	yes	no	n/a	DTW	DTP	GPM	**Totalizer**	Comments
	RW-2D	☑	☐	☐	NA	N/A	21.76	63	New battery
	RW-3B	☑	☐	☐	NA	N/A	20.09	46	New battery
	RW-4	☑	☐	☐	NA	N/A	14.19	67642655	DTW not collected
	RW-5	☑	☐	☐	NA	N/A	12.84	14691011	DTW not collected
	RW-6	☑	☐	☐	NA	N/A	12.18	38201371	DTW not collected
	MW-22	☑	☐	☐	NA	N/A	11.35	3858447	DTW not collected

Site Visit Summary	Changed out 3 myclex filters in each unit. The system was running normally upon arrival. Last BF changeout 5/9/16 by hospital maintenance staff. The batteries in RW-2D and RW3B were replaced today hence the reset totalizer values. System Effluent sample collected at 10:45 for DRO, GRO, VOC and fuel oxygenates

Project Name:	**Chester River Hospital Center**	Date:	Wednesday, May 25, 2016
Project #:	3111.01.52	Time on - site:	8:00 AM
Location:	**Chestertown, Maryland**	Weather:	Cloudy, Lt. SW. Winds 70F
Personnel present at site:	MC	Vehicle:	1

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	☑	☐	☐	Effluent sample @ 10:00
	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)	☐	☑	☐	16		
	BF-2 (Primary - 50 micron bag)	☐	☑	☐	14		
	BF-3 (Secondary (25 micron bag)	☐	☑	☐	15		
	BF-4 (Primary - 50 micron bag)	☐	☑	☐	16		

Recovery Wells	Actively Pumping	yes	no	n/a	DTW	DTP	GPM	**Totalizer**	Comments
	RW-2D	☑	☐	☐	NA	N/A	20.61	320367	
	RW-3B	☑	☐	☐	NA	N/A	20.12	309697	
	RW-4	☑	☐	☐	NA	N/A	12.85	67866561	
	RW-5	☑	☐	☐	NA	N/A	13.40	14888536	
	RW-6	☑	☐	☐	NA	N/A	11.68	38399330	
	MW-22	☑	☐	☐	NA	N/A	11.44	4038037	

Site Visit Summary	Changed out 3 myclex filters in each unit. The system was running normally upon arrival. Last BF changeout 5/23/16 by hospital maintenance staff. Filters not changed due to low PSI values. System Effluent sample collected at 10:00 (5/25) for DRO, GRO, VOC and fuel oxygenates

PETROLEUM PRODUCT / WATER - LEVEL DATA SHEET

W.O. #:

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

DATE: **21-Jun-2016**
WEATHER: **Sunny 80's, light SW winds**
COLLECTED BY: **MC / NSB**
ENTERED BY: **MC**

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)	Depth to Bottom (ft)	Fluid Level Elevation (ft msl)	Corrected Water Elevation (ft msl)	Estimated Amount Product Recovered (gal) / NOTES:
MW-1	Lip of Casing	57.05		46.07		10.98	10.98	
MW-2	Lip of Casing	56.37		45.57		10.80	10.80	
MW-3	Lip of Casing	50.55		40.18		10.37	10.37	
MW-4	Lip of Casing	53.40		42.65		10.75	10.75	
MW-5	Lip of Casing	61.08		50.11	63.88	10.97	10.97	
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	46.60		37.99		8.61	8.61	
MW-10	Lip of Casing	--------	--------	--------	--------	--------	--------	Well abandoned Nov 2012
MW-10R	Lip of Casing	48.70		40.02		8.68	8.68	
MW-11	Lip of Casing	41.49		32.59		8.90	8.90	
MW-12	Lip of Casing	44.46		35.07		9.39	9.39	
MW-13	Lip of Casing	41.70		33.89	42.98	7.81	7.81	
MW-14	Lip of Casing	41.38		34.45		6.93	6.93	
MW-15	Lip of Casing	35.01		26.19	34.86	8.82	8.82	
MW-16	Lip of Casing	35.55		27.08	37.86	8.47	8.47	
MW-17	Lip of Casing	35.49		26.44		9.05	9.05	
MW-18	Lip of Casing	35.82		27.57		8.25	8.25	
MW-19	Lip of Casing	38.85		30.78	41.81	8.07	8.07	
MW-20	Lip of Casing	38.72		30.82	42.72	7.90	7.90	
MW-21	Lip of Casing	38.55		29.86		8.69	8.69	
MW-22	Lip of Casing	47.04		42.52		4.52	4.52	
MW-23	Lip of Casing	35.95		27.60		8.35	8.35	

PETROLEUM PRODUCT / WATER - LEVEL DATA SHEET

W.O. #:

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

DATE: **21-Jun-2016**
WEATHER: **Sunny 80's, light SW winds**
COLLECTED BY: **MC / NSB**
ENTERED BY: **MC**

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)	Depth to Bottom (ft)	Fluid Level Elevation (ft msl)	Corrected Water Elevation (ft msl)	Estimated Amount Product Recovered (gal) / NOTES:
MW-24	Lip of Casing	36.56		28.06	38.84	8.50	8.50	
MW-25	Lip of Casing	36.10		27.41		8.69	8.69	
MW-27	Lip of Casing	--------	--------	--------	--------	--------	--------	Well abandoned Nov 2006
MW-28	Lip of Casing	35.90		26.94		8.96	8.96	
MW-29	Lip of Casing	35.15		26.83		8.32	8.32	
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		37.84		9.56	9.56	
MW-32	Lip of Casing	47.41		38.57	48.80	8.84	8.84	
MW-33	Lip of Casing	36.52		28.18	40.28	8.34	8.34	
MW-34	Lip of Casing	36.64		28.31	40.19	8.33	8.33	
MW-35	Lip of Casing	38.62		30.15	41.87	8.47	8.47	
MW-37	Lip of Casing	50.54		40.18		10.36	10.36	
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		40.22		0.32	0.32	Slight odor
RW-3B	Lip of Casing	39.45		40.23		-0.78	-0.78	
MW-40	Lip of Casing	48.88		40.73		8.15	8.15	
MW-41	Lip of Casing	43.15		35.57		7.58	7.58	
RW-4	Lip of Casing	48.15		45.40		2.75	2.75	
RW-5	Lip of Casing	43.34		41.65		1.69	1.69	
RW-6	Lip of Casing	47.22		40.40		6.82	6.82	
RW-2A	Lip of Casing	--------	--------	--------	--------	--------	--------	Well abandoned Mar 2008
RW-2B	Lip of Casing	--------	--------	--------	--------	--------	--------	Well abandoned Mar 2008

PETROLEUM PRODUCT / WATER - LEVEL DATA SHEET

W.O. #:

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

DATE: **21-Jun-2016**
WEATHER: **Sunny 80's, light SW winds**
COLLECTED BY: **MC / NSB**
ENTERED BY: **MC**

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)	Depth to Bottom (ft)	Fluid Level Elevation (ft msl)	Corrected Water Elevation (ft msl)	Estimated Amount Product Recovered (gal) / NOTES:
MP-2B	Lip of Casing							
RW-2C	Lip of Casing	--------	--------	--------	--------		--------	Well abandoned Sep 2003
RW-3A	Lip of Casing	--------	--------	--------	--------	--------	--------	Well abandoned Sep 2003
MP-3A	Lip of Casing	--------	--------	--------	--------	--------	--------	Collapsed well - not able to sample
MW-42	Lip of Casing	47.11		38.46		8.65	8.65	
MW-43	Lip of Casing	47.90		39.96		7.94	7.94	
MW-44	Lip of Casing	47.20		38.18		9.02	9.02	
MW-45	Lip of Casing	40.70		32.30		8.40	8.40	
MW-46	Lip of Casing	40.89		33.60	46.67	7.29	7.29	
MW-47	Lip of Casing	40.74		33.64		7.10	7.10	Sewer odor
MW-48	Lip of Casing	36.22		27.59	54.07	8.63	8.63	
MW-49	Lip of Casing	35.49		26.90	54.07	8.59	8.59	
MW-50	Lip of Casing	35.64		27.07	44.98	8.57	8.57	
MW-51	Lip of Casing	60.55		50.14		10.41	10.41	NEW - Installed June 2016
MW-52	Lip of Casing	47.25		39.18		8.07	8.07	NEW - Installed June 2016
MW-53	Lip of Casing	47.69		40.28		7.41	7.41	NEW - Installed June 2016
MW-54	Lip of Casing	42.99		36.34		6.65	6.65	NEW - Installed June 2016
MW-55	Lip of Casing	42.78		34.89		7.89	7.89	NEW - Installed June 2016
MW-56	Lip of Casing	37.82		30.29		7.53	7.53	NEW - Installed June 2016
IW-1	Lip of Casing	--------				--------	--------	

Project Name:	**Chester River Hospital Center**	Date:	Wednesday, June 01, 2016
Project #:	3111.01.52	Time on - site:	9:00 AM
Location:	**Chestertown, Maryland**	Weather:	Sunny, Lt. SW. Winds 70F
Personnel present at site:	MC	Vehicle:	1

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	☑	☐	☐	Effluent sample @ 11:00
	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)	☑	☐	☐	24	13	
	BF-2 (Primary - 50 micron bag)	☑	☐	☐	15	16	
	BF-3 (Secondary (25 micron bag)	☑	☐	☐	23	12	
	BF-4 (Primary - 50 micron bag)	☑	☐	☐	22	14	

Recovery Wells	Actively Pumping	yes	no	n/a	DTW	DTP[3]	GPM	**Totalizer**	Comments
	RW-2D	☑	☐	☐	NA	N/A	21.41	363451	
	RW-3B	☑	☐	☐	NA	N/A	19.62	349386	
	RW-4	☑	☐	☐	NA	N/A	12.43	67906807	
	RW-5	☑	☐	☐	NA	N/A	14.31	14917518	
	RW-6	☑	☐	☐	NA	N/A	12.07	38435486	
	MW-22	☑	☐	☐	NA	N/A	12.22	4075903	

Site Visit Summary

Changed out 3 myclex filters in each unit (M1 & M2)
The system was running normally upon arrival. Last BF changeout 5/25/16 by BrightFields.
Will replace pressure guage (malfunctioning) on BF 2 and petcock valve (leaking) on BF 1 on next visit
System Effluent sample collected at 11:00 (6/1) for DRO, GRO, VOC and fuel oxygenates

Project Name:	**Chester River Hospital Center**	Date:	Wednesday, June 15, 2016
Project #:	3111.01.52	Time on - site:	8:45 AM
Location:	**Chestertown, Maryland**	Weather:	Cloudy, Lt Rain, Lt. SW. Winds 70F
Personnel present at site:	MC	Vehicle:	1

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)	☑	☐	☐	16	14	
	BF-2 (Primary - 50 micron bag)	☑	☐	☐	19	10	
	BF-3 (Secondary (25 micron bag)	☑	☐	☐	14	12	
	BF-4 (Primary - 50 micron bag)	☑	☐	☐	16	14	

Recovery Wells	Actively Pumping	yes	no	n/a	DTW	DTP[3]	GPM	**Totalizer**	Comments
	RW-2D	☑	☐	☐	40.48	N/A	20.88	712289	Sheen & odor
	RW-3B	☑	☐	☐	40.49	N/A	19.55	681990	No sheen/no odor
	RW-4	☑	☐	☐	45.67	N/A	12.68	68128906	No sheen/no odor
	RW-5	☑	☐	☐	41.95	N/A	13.34	15145471	Sheen & odor
	RW-6	☑	☐	☐	40.58	N/A	11.13	38630651	Slight sheen & petro odor
	MW-22	☑	☐	☐	42.84	N/A	10.14	4269968	Slight sheen & petro odor

Site Visit Summary	Changed out 3 myclex filters in each unit (M1 & M2) The system was running normally upon arrival. Last BF changeout 6/13/16 by hospital maintenance staff. Replaced manual pressure relief valve on BF-1, replaced pressure guage on BF-3 System effluent to be collected next week during GWS.