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November 23, 2015

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

**Subject:** Chester River Hospital Center – Monthly Monitoring Report for October 2015

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

Dear Ms. Bull:

On behalf of Chester River Hospital Center (CRHC), EBA Engineering Inc. (EBA) is pleased to submit this monthly monitoring report for period of October 1st through October 31st. 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.

- October 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, and Volatile Organic Compounds (VOCs), including oxygenates, using EPA Method 8260B.

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

- Table 1 – Groundwater Monitoring Wells & Recovery Wells – Historic Data Summary
- Figure 1 – Water Table Contour Map
- Figure 2 – Water Quality Map of TPH-DRO
- Figure 3 – Water Quality Map of Benzene, Tolulene, Ethylbenzene, Xylenes (BTEX), and Naphthalene
- Appendix A – Laboratory Analytical Reports
- Appendix B – Well Gauging & Field Reports

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

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

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, were below laboratory reporting limits for all wells with the exception of MW-20 at 0.24 mg/L. Furthermore, the results of laboratory analysis for BTEX, and Naphthalene from all eleven targeted monitoring wells were also below laboratory reporting limits. A site map showing concentrations of TPH-DRO is included in **Figure 2**. A site map showing concentrations of BTEX 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, Ethylbenzene, Xylene, and Naphthalene are present at the site. The locations of monitoring wells with detectable levels of TPH-DRO, Ethylbenzene, Xylene, and Naphthalene are north of Brown Street. A site map showing concentrations of TPH-DRO is included in **Figure 2**. A site map showing concentrations of BTEX and Naphthalene is included in **Figure 3.** Laboratory results are included in **Appendix A.**

Gauging of monitoring and recovery wells was performed on October 19$^{th}$. 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**.

Implementation of the 2015 Action Plan commenced on August 31$^{st}$ that included the injection of Ivey-sol® solution into the eight monitoring wells of Priority Zone 1. On October 28$^{th}$, the Department issued the approval for transitioning into Priority Zone #2. Implementation of Priority Zone #2, consisting of five monitoring wells will commence in

November and continue until the Department receives and approves the request for transitioning into Priority Zone #3.

The next monitoring event is scheduled for November 2015. Should you have any questions regarding this report, do not hesitate to call upon me at 410-504-6112.

Sincerely,

**EBA Engineering, Inc.**

James P. Sines, CHMM
Project Manager

Amar Sokhey, P.E., F.ASCE
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** | **NA** | **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 |

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** | **NA** | **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 |

NS - Not Sampled

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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** | **NA** | **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 |

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** | **NA** | **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 |

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** | **NA** | **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 |

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** | **NA** | **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 |

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** | **NA** | **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 | **0.20** | <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 |

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** | **NA** | **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 |

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** | **NA** | **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 |

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** | **NA** | **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 |

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** | **NA** | **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 |

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** | **NA** | **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 |

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** | **NA** | **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 |
| | 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 |

NS - Not Sampled

EBA ENGINEERING

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

| Well No. | Date | Top of Casing Elevation (ft) | Depth to Water (ft) | GW Elevation (ft) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Xylenes (µg/L) | Total BTEX (µg/L) | MTBE (µg/L) | TPH-DRO (mg/L) | TPH-GRO (mg/L) | Naphthalene (µg/L) | 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** | **NA** | **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 |

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** | **NA** | **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 |

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** | **NA** | **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 |

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** | **NA** | **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 |

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** | **NA** | **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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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** | **NA** | **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 |

NS - Not Sampled

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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** | **NA** | **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 |

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** | **NA** | **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 |

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** | **NA** | **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 |

NS - Not Sampled

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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** | **NA** | **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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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** | **NA** | **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 |

NS - Not Sampled

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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** | **NA** | **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 |

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** | **NA** | **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 |

NS - Not Sampled

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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** | **NA** | **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 |

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** | **NA** | **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 |

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** | **NA** | **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 |

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** | **NA** | **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 |
| | 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 |

NS - Not Sampled

EBA ENGINEERING

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

| Well No. | Date | Top of Casing Elevation (ft) | Depth to Water (ft) | GW Elevation (ft) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Xylenes (µg/L) | Total BTEX (µg/L) | MTBE (µg/L) | TPH-DRO (mg/L) | TPH-GRO (mg/L) | Naphthalene (µg/L) | 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** | **NA** | **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 |

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** | **NA** | **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 |

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** | **NA** | **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 |

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** | **NA** | **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 |

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** | **NA** | **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 |

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** | **NA** | **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 |

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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** | **NA** | **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 |

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** | **NA** | **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 |

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** | **NA** | **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 |

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** | **NA** | **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 |

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** | **NA** | **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 |

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** | **NA** | **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 |

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** | **NA** | **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 |

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** | **NA** | **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 |

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** | **NA** | **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 |

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** | **NA** | **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 |

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** | **NA** | **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 |

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** | **NA** | **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 |

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** | **NA** | **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 |

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** | **NA** | **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 |

NS - Not Sampled

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

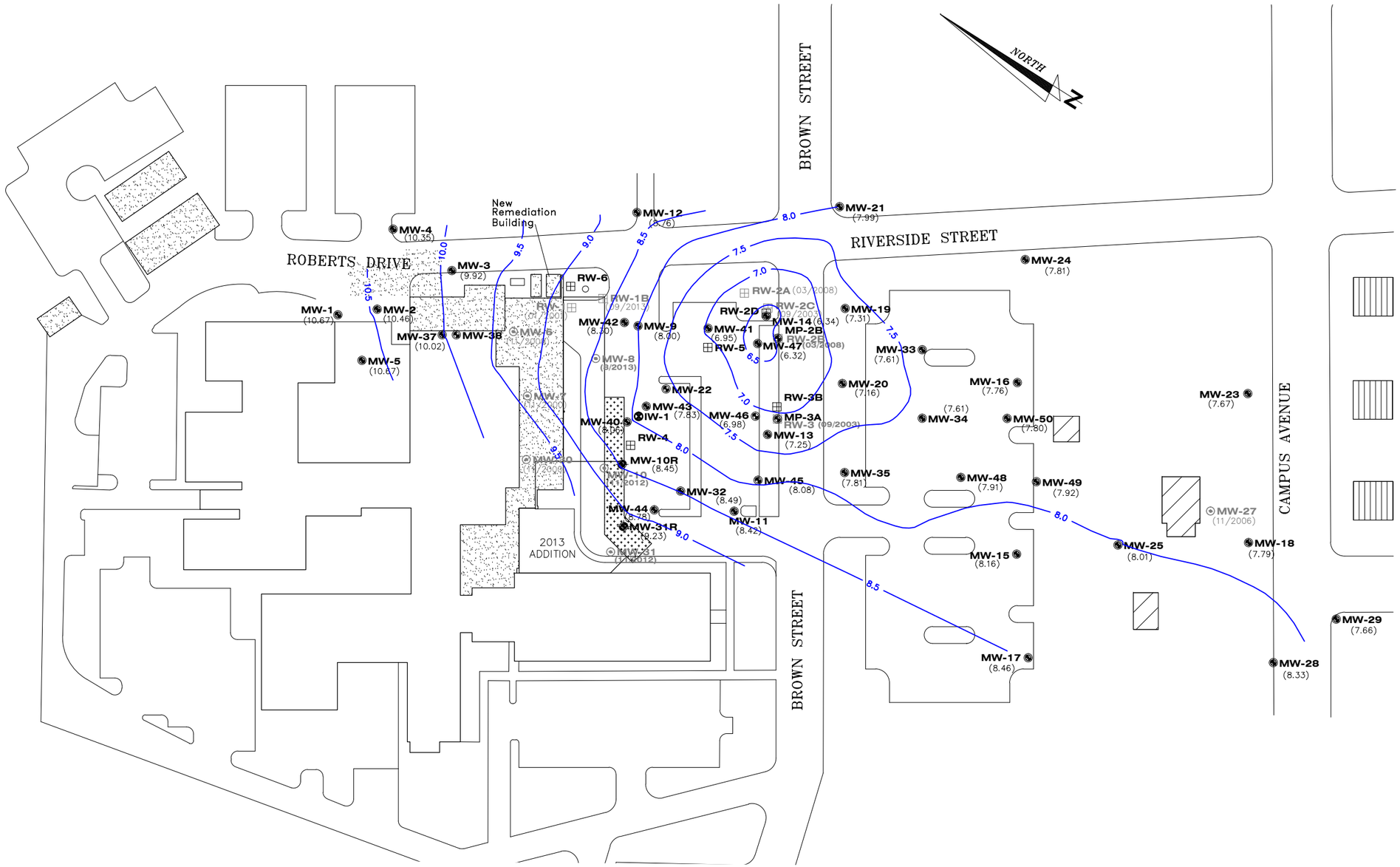
| Well No. | Date | Top of Casing Elevation (ft) | Depth to Water (ft) | GW Elevation (ft) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Xylenes (µg/L) | Total BTEX (µg/L) | MTBE (µg/L) | TPH-DRO (mg/L) | TPH-GRO (mg/L) | Naphthalene (µg/L) | Surfactant (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MDE GW Cleanup Standards for Type I and II Aquifers** | | | | | **5** | **1,000** | **700** | **10,000** | **NA** | **20** | **0.047** | **0.047** | **NA** | **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 |

NS - Not Sampled

# FIGURES

**FIGURE 1**

**Water Table Contour Map**




## 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) |

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)

| PROJECT: 4070-00 | SCALE: AS SHOWN |
|---|---|
| DRAWN BY: DK | DATE: 10/27/2015 |

**FIGURE 1**

WATER TABLE CONTOUR MAP FOR

**CHESTER RIVER HOSPITAL CENTER**

CHESTERTOWN, MARYLAND

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\2015\2781-OCTOBER.dwg

Figure 1 - Water table contour map October 19, 2015 - Chester River Hospital Center, Chestertown, Maryland.

**FIGURE 2**

**Water Quality Map of TPH-DRO & TPH-GRO**

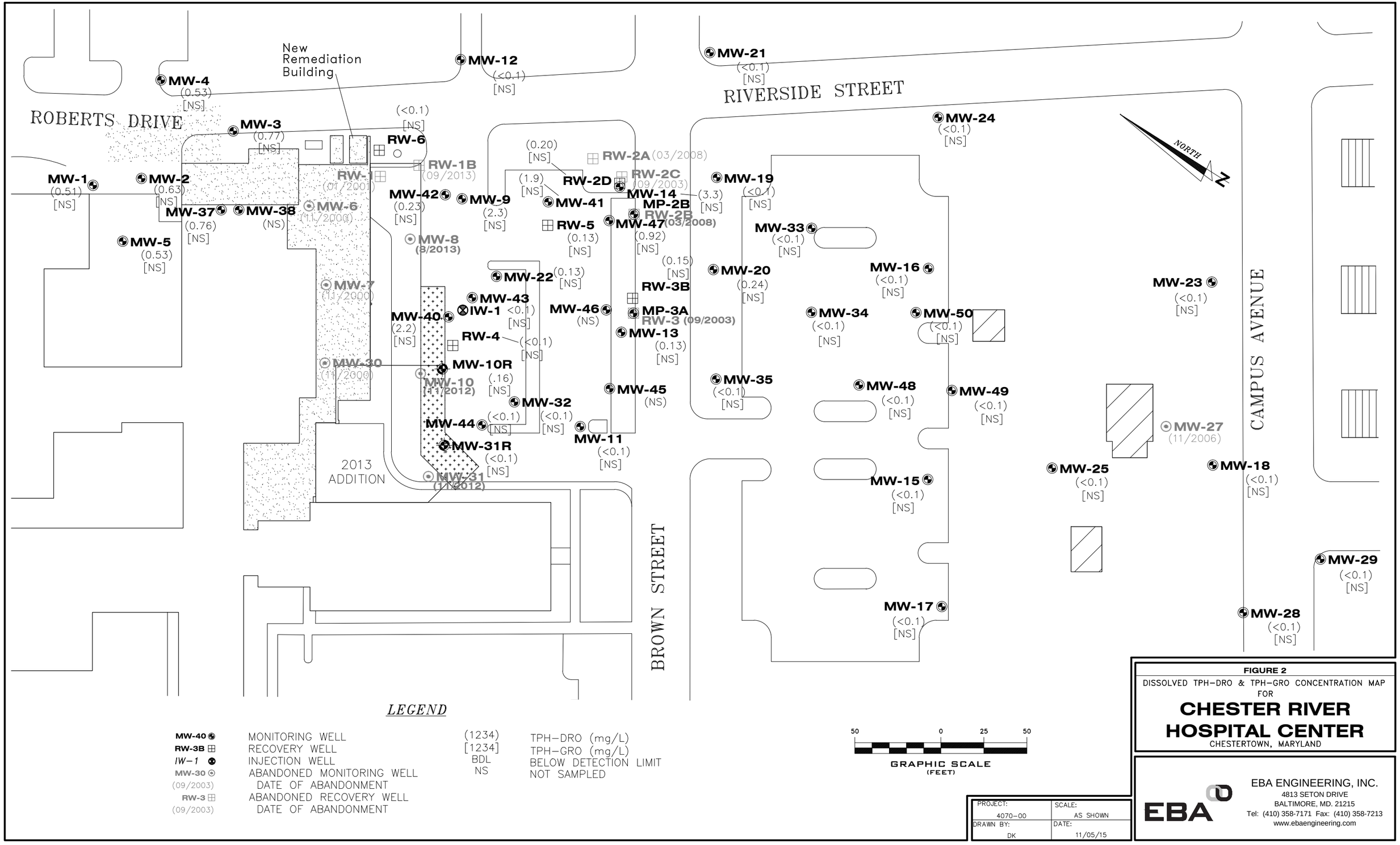



FIGURE 2
DISSOLVED TPH-DRO & TPH-GRO CONCENTRATION MAP FOR
**CHESTER RIVER HOSPITAL CENTER**
CHESTERTOWN, MARYLAND

Figure 2- Site map showing total petroleum hydrocarbon (TPH) concentrations, October 19-21, 2015 Chester River Hospital Center, Chestertown, Maryland.

**FIGURE 3**

**Water Quality Map of BTEX and Naphthalene**

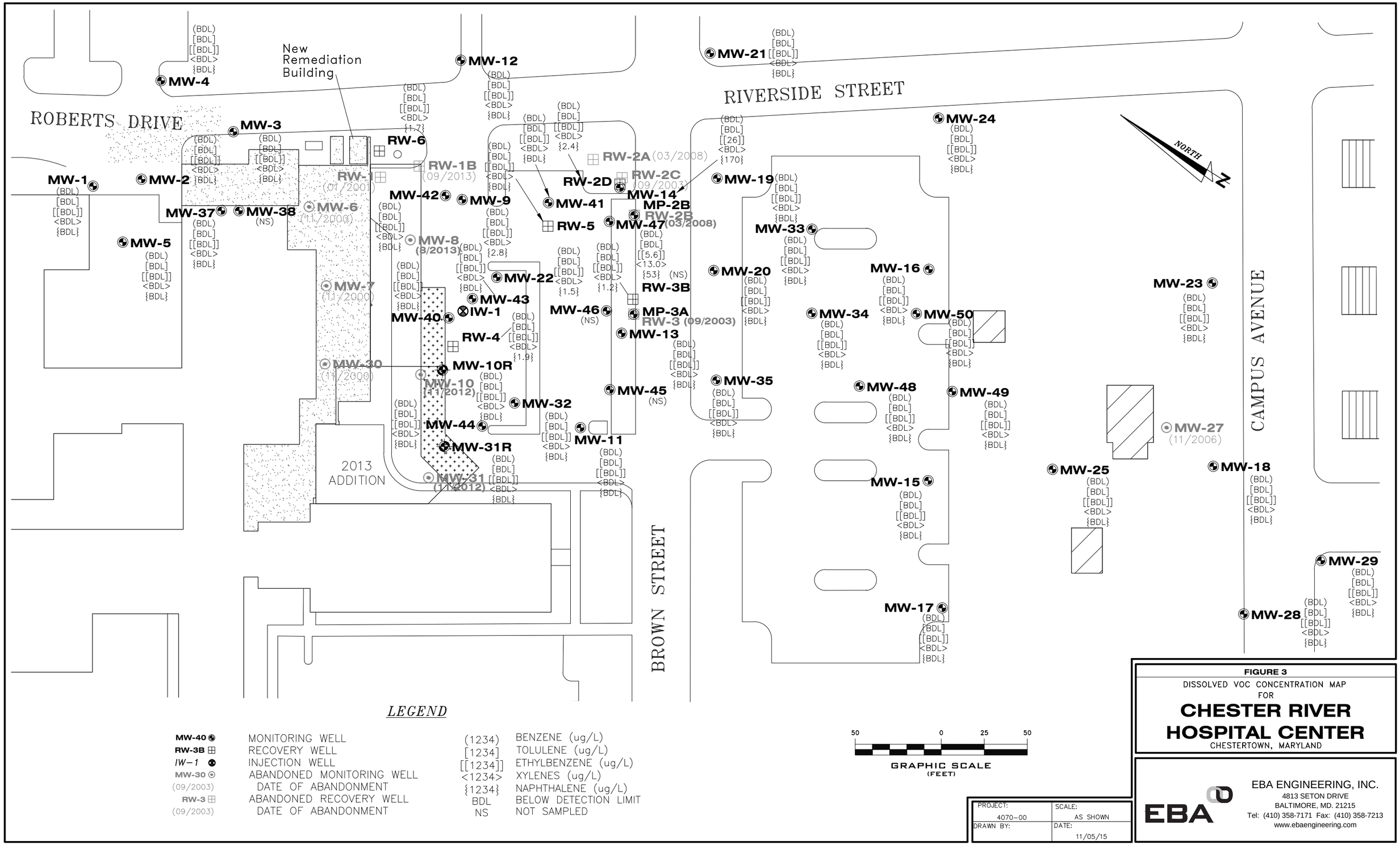



FIGURE 3
DISSOLVED VOC CONCENTRATION MAP
FOR
**CHESTER RIVER HOSPITAL CENTER**
CHESTERTOWN, MARYLAND

Figure 3– Site map showing volatile organic compounds (VOC) concentrations, October 19–21, 2015 Chester River Hospital Center, Chestertown, Maryland.

# APPENDIX A

# LABORATORY RESULTS

# Analytical Report for

## UMM Shore Regional Health at Chestertown

## Certificate of Analysis No.: 15101912

**Project Manager: Ken Hannon**

**Project Name : CRHC**

**Project Location: Chestertown, MD**

**October 28, 2015**

**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.

October 28, 2015

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

Reference: PSS Work Order(s) No: **15101912**
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 **15101912**.

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 November 23, 2015, 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 at Chestertown

## Project Name: CRHC

**Work Order Number(s): 15101912**

The following samples were received under chain of custody by Phase Separation Science (PSS) on 10/19/2015 at 02:30 pm

| Lab Sample Id | Sample Id | Matrix | Date/Time Collected |
|---|---|---|---|
| 15101912-001 | MW1 | GROUND WATER | 10/19/15 09:25 |
| 15101912-002 | MW5 | GROUND WATER | 10/19/15 09:25 |
| 15101912-003 | MW2 | GROUND WATER | 10/19/15 09:38 |
| 15101912-004 | MW37 | GROUND WATER | 10/19/15 09:40 |
| 15101912-005 | MW3 | GROUND WATER | 10/19/15 09:50 |
| 15101912-006 | MW14 | GROUND WATER | 10/19/15 09:50 |
| 15101912-007 | MW47 | GROUND WATER | 10/19/15 09:58 |
| 15101912-008 | MW4 | GROUND WATER | 10/19/15 10:00 |

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. |

**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: 15101912

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

October 28, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW1** **Date/Time Sampled: 10/19/2015 09:25** **PSS Sample ID: 15101912-001**
**Matrix: GROUND WATER** **Date/Time Received: 10/19/2015 14:30**

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 | 20 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| tert-Amyl alcohol | ND | ug/L | 40 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| tert-Amyl ethyl ether | ND | ug/L | 40 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| tert-Amyl methyl ether | ND | ug/L | 40 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| Benzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| Bromochloromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| Bromodichloromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| Bromomethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| tert-Butanol | ND | ug/L | 40 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| 2-Butanone (MEK) | ND | ug/L | 20 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| Carbon tetrachloride | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| Chlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| Chloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| Chloroform | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| Chloromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| Cyclohexane | ND | ug/L | 20 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 40 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| Dibromochloromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| 1,2-Dibromoethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| Dichlorodifluoromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| 1,1-Dichloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| 1,2-Dichloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| 1,1-Dichloroethene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15101912

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

October 28, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW1** **Date/Time Sampled: 10/19/2015 09:25** **PSS Sample ID: 15101912-001**
**Matrix: GROUND WATER** **Date/Time Received: 10/19/2015 14:30**

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 | 5.0 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| Ethylbenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| Isopropylbenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| Methylene chloride | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| 4-Methyl-2-Pentanone (MIBK) | ND | ug/L | 20 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| Methyl-t-Butyl Ether | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| Naphthalene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| Styrene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| Tetrachloroethene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| Toluene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| Trichloroethene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| Vinyl chloride | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| m&p-Xylene | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |
| o-Xylene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:57 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15101912

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

October 28, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW5** **Date/Time Sampled: 10/19/2015 09:25** **PSS Sample ID: 15101912-002**
**Matrix: GROUND WATER** **Date/Time Received: 10/19/2015 14:30**

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 | 20 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| tert-Amyl alcohol | ND | ug/L | 40 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| tert-Amyl methyl ether | ND | ug/L | 40 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| tert-Amyl ethyl ether | ND | ug/L | 40 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Benzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Bromochloromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Bromodichloromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Bromomethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| tert-Butanol | ND | ug/L | 40 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| 2-Butanone (MEK) | ND | ug/L | 20 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Carbon tetrachloride | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Chlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Chloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Chloroform | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Chloromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Cyclohexane | ND | ug/L | 20 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 40 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Dibromochloromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| 1,2-Dibromoethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Dichlorodifluoromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| 1,1-Dichloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| 1,2-Dichloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| 1,1-Dichloroethene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15101912

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

October 28, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW5** **Date/Time Sampled: 10/19/2015 09:25** **PSS Sample ID: 15101912-002**
**Matrix: GROUND WATER** **Date/Time Received: 10/19/2015 14:30**

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 | 5.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Ethylbenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Isopropylbenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Methylene chloride | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| 4-Methyl-2-Pentanone (MIBK) | ND | ug/L | 20 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Methyl-t-Butyl Ether | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Naphthalene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Styrene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Tetrachloroethene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Toluene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Trichloroethene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Vinyl chloride | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| m&p-Xylene | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| o-Xylene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15101912

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

October 28, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW2** **Date/Time Sampled: 10/19/2015 09:38** **PSS Sample ID: 15101912-003**
**Matrix: GROUND WATER** **Date/Time Received: 10/19/2015 14:30**

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 | 20 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| tert-Amyl alcohol | ND | ug/L | 40 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| tert-Amyl ethyl ether | ND | ug/L | 40 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| tert-Amyl methyl ether | ND | ug/L | 40 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| Benzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| Bromochloromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| Bromodichloromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| Bromomethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| tert-Butanol | ND | ug/L | 40 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| 2-Butanone (MEK) | ND | ug/L | 20 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| Carbon tetrachloride | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| Chlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| Chloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| Chloroform | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| Chloromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| Cyclohexane | ND | ug/L | 20 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 40 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| Dibromochloromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| 1,2-Dibromoethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| Dichlorodifluoromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| 1,1-Dichloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| 1,2-Dichloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| 1,1-Dichloroethene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15101912

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

October 28, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW2** **Date/Time Sampled: 10/19/2015 09:38** **PSS Sample ID: 15101912-003**
**Matrix: GROUND WATER** **Date/Time Received: 10/19/2015 14:30**

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 | 5.0 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| Ethylbenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| Isopropylbenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| Methylene chloride | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| 4-Methyl-2-Pentanone (MIBK) | ND | ug/L | 20 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| Methyl-t-Butyl Ether | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| Naphthalene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| Styrene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| Tetrachloroethene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| Toluene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| Trichloroethene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| Vinyl chloride | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| m&p-Xylene | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |
| o-Xylene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:59 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15101912

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

October 28, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW37** **Date/Time Sampled: 10/19/2015 09:40** **PSS Sample ID: 15101912-004**
**Matrix: GROUND WATER** **Date/Time Received: 10/19/2015 14:30**

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 | 20 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| tert-Amyl alcohol | ND | ug/L | 40 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| tert-Amyl methyl ether | ND | ug/L | 40 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| tert-Amyl ethyl ether | ND | ug/L | 40 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| Benzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| Bromochloromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| Bromodichloromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| Bromomethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| tert-Butanol | ND | ug/L | 40 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| 2-Butanone (MEK) | ND | ug/L | 20 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| Carbon tetrachloride | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| Chlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| Chloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| Chloroform | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| Chloromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| Cyclohexane | ND | ug/L | 20 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 40 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| Dibromochloromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| 1,2-Dibromoethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| Dichlorodifluoromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| 1,1-Dichloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| 1,2-Dichloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| 1,1-Dichloroethene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15101912

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

October 28, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW37** **Date/Time Sampled: 10/19/2015 09:40** **PSS Sample ID: 15101912-004**
**Matrix: GROUND WATER** **Date/Time Received: 10/19/2015 14:30**

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 | 5.0 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| Ethylbenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| Isopropylbenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| Methylene chloride | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| 4-Methyl-2-Pentanone (MIBK) | ND | ug/L | 20 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| Methyl-t-Butyl Ether | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| Naphthalene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| Styrene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| Tetrachloroethene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| Toluene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| Trichloroethene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| Vinyl chloride | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| m&p-Xylene | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |
| o-Xylene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:29 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15101912

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

October 28, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW3** **Date/Time Sampled: 10/19/2015 09:50** **PSS Sample ID: 15101912-005**
**Matrix: GROUND WATER** **Date/Time Received: 10/19/2015 14:30**

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 | 20 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| tert-Amyl alcohol | ND | ug/L | 40 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| tert-Amyl methyl ether | ND | ug/L | 40 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| tert-Amyl ethyl ether | ND | ug/L | 40 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| Benzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| Bromochloromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| Bromodichloromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| Bromomethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| tert-Butanol | ND | ug/L | 40 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| 2-Butanone (MEK) | ND | ug/L | 20 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| Carbon tetrachloride | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| Chlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| Chloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| Chloroform | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| Chloromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| Cyclohexane | ND | ug/L | 20 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 40 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| Dibromochloromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| 1,2-Dibromoethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| Dichlorodifluoromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| 1,1-Dichloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| 1,2-Dichloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| 1,1-Dichloroethene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15101912

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

October 28, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW3** **Date/Time Sampled: 10/19/2015 09:50** **PSS Sample ID: 15101912-005**
**Matrix: GROUND WATER** **Date/Time Received: 10/19/2015 14:30**

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 | 5.0 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| Ethylbenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| Isopropylbenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| Methylene chloride | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| 4-Methyl-2-Pentanone (MIBK) | ND | ug/L | 20 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| Methyl-t-Butyl Ether | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| Naphthalene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| Styrene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| Tetrachloroethene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| Toluene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| Trichloroethene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| Vinyl chloride | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| m&p-Xylene | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |
| o-Xylene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:59 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15101912

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

October 28, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW14** **Date/Time Sampled: 10/19/2015 09:50** **PSS Sample ID: 15101912-006**
**Matrix: GROUND WATER** **Date/Time Received: 10/19/2015 14:30**

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 | 20 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| tert-Amyl alcohol | ND | ug/L | 40 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| tert-Amyl methyl ether | ND | ug/L | 40 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| tert-Amyl ethyl ether | ND | ug/L | 40 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| Benzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| Bromochloromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| Bromodichloromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| Bromomethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| tert-Butanol | ND | ug/L | 40 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| 2-Butanone (MEK) | ND | ug/L | 20 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| Carbon tetrachloride | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| Chlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| Chloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| Chloroform | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| Chloromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| Cyclohexane | ND | ug/L | 20 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 40 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| Dibromochloromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| 1,2-Dibromoethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| Dichlorodifluoromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| 1,1-Dichloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| 1,2-Dichloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| 1,1-Dichloroethene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15101912

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

October 28, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW14** **Date/Time Sampled: 10/19/2015 09:50** **PSS Sample ID: 15101912-006**
**Matrix: GROUND WATER** **Date/Time Received: 10/19/2015 14:30**

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 | 5.0 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| Ethylbenzene | **26** | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| Isopropylbenzene | **17** | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| Methylene chloride | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| 4-Methyl-2-Pentanone (MIBK) | ND | ug/L | 20 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| Methyl-t-Butyl Ether | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| Naphthalene | **170** | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| Styrene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| Tetrachloroethene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| Toluene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| Trichloroethene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| Vinyl chloride | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| m&p-Xylene | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |
| o-Xylene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:31 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15101912

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

October 28, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW47** **Date/Time Sampled: 10/19/2015 09:58** **PSS Sample ID: 15101912-007**
**Matrix: GROUND WATER** **Date/Time Received: 10/19/2015 14:30**

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 | 20 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| tert-Amyl alcohol | ND | ug/L | 40 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| tert-Amyl ethyl ether | ND | ug/L | 40 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| tert-Amyl methyl ether | ND | ug/L | 40 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| Benzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| Bromochloromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| Bromodichloromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| Bromomethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| tert-Butanol | ND | ug/L | 40 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| 2-Butanone (MEK) | ND | ug/L | 20 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| Carbon tetrachloride | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| Chlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| Chloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| Chloroform | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| Chloromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| Cyclohexane | ND | ug/L | 20 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 40 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| Dibromochloromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| 1,2-Dibromoethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| Dichlorodifluoromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| 1,1-Dichloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| 1,2-Dichloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| 1,1-Dichloroethene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15101912

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

October 28, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW47** **Date/Time Sampled: 10/19/2015 09:58** **PSS Sample ID: 15101912-007**
**Matrix: GROUND WATER** **Date/Time Received: 10/19/2015 14:30**

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 | 5.0 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| Ethylbenzene | **5.6** | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| Isopropylbenzene | **6.0** | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| Methylene chloride | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| 4-Methyl-2-Pentanone (MIBK) | ND | ug/L | 20 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| Methyl-t-Butyl Ether | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| Naphthalene | **53** | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| Styrene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| Tetrachloroethene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| Toluene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| Trichloroethene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| Vinyl chloride | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| m&p-Xylene | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |
| o-Xylene | **13** | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 17:30 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15101912

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

October 28, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW4** **Date/Time Sampled: 10/19/2015 10:00** **PSS Sample ID: 15101912-008**
**Matrix: GROUND WATER** **Date/Time Received: 10/19/2015 14:30**

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 | 20 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| tert-Amyl alcohol | ND | ug/L | 40 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| tert-Amyl methyl ether | ND | ug/L | 40 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| tert-Amyl ethyl ether | ND | ug/L | 40 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| Benzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| Bromochloromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| Bromodichloromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| Bromomethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| tert-Butanol | ND | ug/L | 40 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| 2-Butanone (MEK) | ND | ug/L | 20 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| Carbon tetrachloride | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| Chlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| Chloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| Chloroform | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| Chloromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| Cyclohexane | ND | ug/L | 20 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 40 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| Dibromochloromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| 1,2-Dibromoethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| Dichlorodifluoromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| 1,1-Dichloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| 1,2-Dichloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| 1,1-Dichloroethene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15101912

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

October 28, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW4** **Date/Time Sampled: 10/19/2015 10:00** **PSS Sample ID: 15101912-008**
**Matrix: GROUND WATER** **Date/Time Received: 10/19/2015 14:30**

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 | 5.0 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| Ethylbenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| Isopropylbenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| Methylene chloride | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| 4-Methyl-2-Pentanone (MIBK) | ND | ug/L | 20 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| Methyl-t-Butyl Ether | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| Naphthalene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| Styrene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| Tetrachloroethene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| Toluene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| Trichloroethene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| Vinyl chloride | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| m&p-Xylene | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |
| o-Xylene | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:00 | 1011 |

# Case Narrative Summary

## Client Name: UMM Shore Regional Health at Chestertown

## Project Name: CRHC

Work Order Number(s): 15101912

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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:**

Samples were analyzed by needle sparge with the addition of anti-foaming agent due to the presence of surfactants, reporting limits are adjusted accordingly.

**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): 15101912**
Report Prepared For: UMM Shore Regional Health at Chestertown,
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** | MW1 | Initial | 15101912-001 | 1011 | W | 57907 | 127209 | 10/19/2015 | 10/27/2015 09:32 | 10/27/2015 14:57 |
| | MW5 | Initial | 15101912-002 | 1011 | W | 57907 | 127209 | 10/19/2015 | 10/27/2015 09:32 | 10/27/2015 15:28 |
| | MW2 | Initial | 15101912-003 | 1011 | W | 57907 | 127209 | 10/19/2015 | 10/27/2015 09:32 | 10/27/2015 15:59 |
| | MW37 | Initial | 15101912-004 | 1011 | W | 57907 | 127209 | 10/19/2015 | 10/27/2015 09:32 | 10/27/2015 16:29 |
| | MW3 | Initial | 15101912-005 | 1011 | W | 57907 | 127209 | 10/19/2015 | 10/27/2015 09:32 | 10/27/2015 16:59 |
| | MW14 | Initial | 15101912-006 | 1011 | W | 57907 | 127209 | 10/19/2015 | 10/27/2015 09:32 | 10/27/2015 18:31 |
| | MW47 | Initial | 15101912-007 | 1011 | W | 57907 | 127209 | 10/19/2015 | 10/27/2015 09:32 | 10/27/2015 17:30 |
| | MW4 | Initial | 15101912-008 | 1011 | W | 57907 | 127209 | 10/19/2015 | 10/27/2015 09:32 | 10/27/2015 18:00 |
| | 57907-1-BKS | BKS | 57907-1-BKS | 1011 | S | 57907 | 127209 | -------- | 10/27/2015 09:32 | 10/27/2015 10:43 |
| | 57907-1-BLK | BLK | 57907-1-BLK | 1011 | S | 57907 | 127209 | -------- | 10/27/2015 09:32 | 10/27/2015 11:44 |
| | S1 S | MS | 15102213-001 S | 1011 | S | 57907 | 127209 | 10/14/2015 | 10/27/2015 09:32 | 10/27/2015 12:48 |
| | S1 SD | MSD | 15102213-001 SD | 1011 | S | 57907 | 127209 | 10/14/2015 | 10/27/2015 09:32 | 10/27/2015 13:18 |

# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15101912

UMM Shore Regional Health at Chestertown
CRHC

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127209 Matrix: Ground Water Date Prep: 10/27/2015
PSS Sample ID: 15101912-001

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 107 | | 81-133 | % | 10/27/15 14:57 |
| Dibromofluoromethane | 94 | | 84-110 | % | 10/27/15 14:57 |
| Toluene-D8 | 100 | | 94-109 | % | 10/27/15 14:57 |

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127209 Matrix: Ground Water Date Prep: 10/27/2015
PSS Sample ID: 15101912-002

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 103 | | 81-133 | % | 10/27/15 15:28 |
| Dibromofluoromethane | 93 | | 84-110 | % | 10/27/15 15:28 |
| Toluene-D8 | 101 | | 94-109 | % | 10/27/15 15:28 |

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127209 Matrix: Ground Water Date Prep: 10/27/2015
PSS Sample ID: 15101912-003

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 104 | | 81-133 | % | 10/27/15 15:59 |
| Dibromofluoromethane | 94 | | 84-110 | % | 10/27/15 15:59 |
| Toluene-D8 | 99 | | 94-109 | % | 10/27/15 15:59 |

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127209 Matrix: Ground Water Date Prep: 10/27/2015
PSS Sample ID: 15101912-004

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 102 | | 81-133 | % | 10/27/15 16:29 |
| Dibromofluoromethane | 96 | | 84-110 | % | 10/27/15 16:29 |
| Toluene-D8 | 100 | | 94-109 | % | 10/27/15 16:29 |

# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15101912

UMM Shore Regional Health at Chestertown
CRHC

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127209 Matrix: Ground Water Date Prep: 10/27/2015
PSS Sample ID: 15101912-005

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 106 | | 81-133 | % | 10/27/15 16:59 |
| Dibromofluoromethane | 96 | | 84-110 | % | 10/27/15 16:59 |
| Toluene-D8 | 100 | | 94-109 | % | 10/27/15 16:59 |

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127209 Matrix: Ground Water Date Prep: 10/27/2015
PSS Sample ID: 15101912-006

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 101 | | 81-133 | % | 10/27/15 18:31 |
| Dibromofluoromethane | 95 | | 84-110 | % | 10/27/15 18:31 |
| Toluene-D8 | 99 | | 94-109 | % | 10/27/15 18:31 |

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127209 Matrix: Ground Water Date Prep: 10/27/2015
PSS Sample ID: 15101912-007

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 104 | | 81-133 | % | 10/27/15 17:30 |
| Dibromofluoromethane | 94 | | 84-110 | % | 10/27/15 17:30 |
| Toluene-D8 | 99 | | 94-109 | % | 10/27/15 17:30 |

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127209 Matrix: Ground Water Date Prep: 10/27/2015
PSS Sample ID: 15101912-008

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 106 | | 81-133 | % | 10/27/15 18:00 |
| Dibromofluoromethane | 96 | | 84-110 | % | 10/27/15 18:00 |
| Toluene-D8 | 102 | | 94-109 | % | 10/27/15 18:00 |

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 15101912

UMM Shore Regional Health at Chestertown
CRHC

**Analytical Method: SW-846 8260 B** Prep Method: SW5030
Seq Number: 127209 Matrix: Solid Date Prep: 10/27/15
MB Sample Id: 57907-1-BLK LCS Sample Id: 57907-1-BKS

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | Limits | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|
| Acetone | <20.00 | 60.00 | 68.87 | 115 | 24-197 | ug/kg | 10/27/15 10:43 | |
| tert-Amyl alcohol | <40.00 | 60.00 | 51.96 | 87 | 29-135 | ug/kg | 10/27/15 10:43 | |
| tert-Amyl ethyl ether | <40.00 | 60.00 | 53.03 | 88 | 61-123 | ug/kg | 10/27/15 10:43 | |
| tert-Amyl methyl ether | <40.00 | 60.00 | 54.65 | 91 | 61-122 | ug/kg | 10/27/15 10:43 | |
| Benzene | <5.000 | 60.00 | 58.43 | 97 | 69-128 | ug/kg | 10/27/15 10:43 | |
| Bromochloromethane | <5.000 | 60.00 | 55.69 | 93 | 64-121 | ug/kg | 10/27/15 10:43 | |
| Bromodichloromethane | <5.000 | 60.00 | 56.58 | 94 | 60-125 | ug/kg | 10/27/15 10:43 | |
| Bromoform | <5.000 | 60.00 | 53.42 | 89 | 46-128 | ug/kg | 10/27/15 10:43 | |
| Bromomethane | <5.000 | 60.00 | 58.14 | 97 | 45-199 | ug/kg | 10/27/15 10:43 | |
| 2-Butanone (MEK) | <20.00 | 60.00 | 68.61 | 114 | 35-173 | ug/kg | 10/27/15 10:43 | |
| tert-Butyl alcohol | <40.00 | 60.00 | 55.92 | 93 | 22-181 | ug/kg | 10/27/15 10:43 | |
| tert-Butyl ethyl ether | <10.00 | 60.00 | 52.05 | 87 | 63-124 | ug/kg | 10/27/15 10:43 | |
| Carbon Disulfide | <10.00 | 60.00 | 56.65 | 94 | 58-153 | ug/kg | 10/27/15 10:43 | |
| Carbon Tetrachloride | <5.000 | 60.00 | 52.78 | 88 | 55-152 | ug/kg | 10/27/15 10:43 | |
| Chlorobenzene | <5.000 | 60.00 | 54.68 | 91 | 61-124 | ug/kg | 10/27/15 10:43 | |
| Chloroethane | <5.000 | 60.00 | 61.69 | 103 | 59-151 | ug/kg | 10/27/15 10:43 | |
| Chloroform | <5.000 | 60.00 | 56.30 | 94 | 65-126 | ug/kg | 10/27/15 10:43 | |
| Chloromethane | <5.000 | 60.00 | 65.74 | 110 | 62-143 | ug/kg | 10/27/15 10:43 | |
| Cyclohexane | <20.00 | 60.00 | 56.75 | 95 | 50-148 | ug/kg | 10/27/15 10:43 | |
| 1,2-Dibromo-3-Chloropropane | <40.00 | 60.00 | 52.76 | 88 | 43-149 | ug/kg | 10/27/15 10:43 | |
| Dibromochloromethane | <5.000 | 60.00 | 55.51 | 93 | 55-128 | ug/kg | 10/27/15 10:43 | |
| 1,2-Dibromoethane (EDB) | <5.000 | 60.00 | 56.36 | 94 | 64-123 | ug/kg | 10/27/15 10:43 | |
| 1,2-Dichlorobenzene | <5.000 | 60.00 | 54.50 | 91 | 38-128 | ug/kg | 10/27/15 10:43 | |
| 1,3-Dichlorobenzene | <5.000 | 60.00 | 54.66 | 91 | 42-123 | ug/kg | 10/27/15 10:43 | |
| 1,4-Dichlorobenzene | <5.000 | 60.00 | 54.38 | 91 | 40-121 | ug/kg | 10/27/15 10:43 | |
| Dichlorodifluoromethane | <5.000 | 60.00 | 58.55 | 98 | 53-144 | ug/kg | 10/27/15 10:43 | |
| 1,1-Dichloroethane | <5.000 | 60.00 | 55.07 | 92 | 60-148 | ug/kg | 10/27/15 10:43 | |
| 1,2-Dichloroethane | <5.000 | 60.00 | 52.33 | 87 | 62-127 | ug/kg | 10/27/15 10:43 | |
| 1,1-Dichloroethene | <5.000 | 60.00 | 52.32 | 87 | 60-154 | ug/kg | 10/27/15 10:43 | |
| 1,2-Dichloropropane | <5.000 | 60.00 | 58.91 | 98 | 66-125 | ug/kg | 10/27/15 10:43 | |
| cis-1,2-Dichloroethene | <5.000 | 60.00 | 57.86 | 96 | 67-126 | ug/kg | 10/27/15 10:43 | |
| cis-1,3-Dichloropropene | <5.000 | 60.00 | 57.08 | 95 | 59-122 | ug/kg | 10/27/15 10:43 | |
| trans-1,2-Dichloroethene | <5.000 | 60.00 | 55.31 | 92 | 60-153 | ug/kg | 10/27/15 10:43 | |
| trans-1,3-Dichloropropene | <5.000 | 60.00 | 53.67 | 89 | 56-124 | ug/kg | 10/27/15 10:43 | |
| Diisopropyl ether | <10.00 | 60.00 | 55.16 | 92 | 58-143 | ug/kg | 10/27/15 10:43 | |
| Ethylbenzene | <5.000 | 60.00 | 55.77 | 93 | 58-130 | ug/kg | 10/27/15 10:43 | |
| Isopropylbenzene | <5.000 | 60.00 | 56.11 | 94 | 52-130 | ug/kg | 10/27/15 10:43 | |
| Methylene Chloride | <5.000 | 60.00 | 54.32 | 91 | 56-140 | ug/kg | 10/27/15 10:43 | |
| 4-Methyl-2-Pentanone | <20.00 | 60.00 | 62.92 | 105 | 22-173 | ug/kg | 10/27/15 10:43 | |
| Methyl-t-butyl ether | <5.000 | 60.00 | 51.98 | 87 | 59-133 | ug/kg | 10/27/15 10:43 | |
| Naphthalene | <5.000 | 60.00 | 52.69 | 88 | 30-155 | ug/kg | 10/27/15 10:43 | |
| Styrene | <5.000 | 60.00 | 56.27 | 94 | 54-123 | ug/kg | 10/27/15 10:43 | |
| 1,1,2,2-Tetrachloroethane | <5.000 | 60.00 | 62.42 | 104 | 50-134 | ug/kg | 10/27/15 10:43 | |
| Tetrachloroethene | <5.000 | 60.00 | 55.29 | 92 | 55-145 | ug/kg | 10/27/15 10:43 | |
| Toluene | <5.000 | 60.00 | 57.18 | 95 | 66-127 | ug/kg | 10/27/15 10:43 | |
| 1,2,3-Trichlorobenzene | <5.000 | 60.00 | 51.51 | 86 | 15-144 | ug/kg | 10/27/15 10:43 | |
| 1,2,4-Trichlorobenzene | <5.000 | 60.00 | 50.86 | 85 | 14-143 | ug/kg | 10/27/15 10:43 | |
| 1,1,1-Trichloroethane | <5.000 | 60.00 | 53.40 | 89 | 60-145 | ug/kg | 10/27/15 10:43 | |
| 1,1,2-Trichloroethane | <5.000 | 60.00 | 57.98 | 97 | 65-120 | ug/kg | 10/27/15 10:43 | |
| Trichloroethene | <5.000 | 60.00 | 55.38 | 92 | 68-130 | ug/kg | 10/27/15 10:43 | |
| Trichlorofluoromethane | <5.000 | 60.00 | 50.46 | 84 | 54-175 | ug/kg | 10/27/15 10:43 | |

# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15101912

UMM Shore Regional Health at Chestertown
CRHC

**Analytical Method: SW-846 8260 B**

Prep Method: SW5030

Seq Number: 127209 | Matrix: Solid | Date Prep: 10/27/15

MB Sample Id: 57907-1-BLK | LCS Sample Id: 57907-1-BKS

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | Limits | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | <5.000 | 60.00 | 49.84 | 83 | 50-162 | ug/kg | 10/27/15 10:43 | |
| Vinyl Chloride | <5.000 | 60.00 | 61.41 | 102 | 61-156 | ug/kg | 10/27/15 10:43 | |
| m,p-Xylenes | <10.00 | 120 | 111.8 | 93 | 60-131 | ug/kg | 10/27/15 10:43 | |
| o-Xylene | <5.000 | 60.00 | 56.37 | 94 | 60-126 | ug/kg | 10/27/15 10:43 | |

| Surrogate | MB %Rec | MB Flag | LCS Result | LCS Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 107 | | 103 | | 80-125 | % | 10/27/15 10:43 |
| Dibromofluoromethane | 99 | | 97 | | 85-115 | % | 10/27/15 10:43 |
| Toluene-D8 | 101 | | 102 | | 91-109 | % | 10/27/15 10:43 |

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@BRIGHTFIELDSINC.COM FAX NO.: ( )

*PROJECT NAME: CRHC PROJECT NO.:

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

SAMPLER(S): R. MORTEL, M. ATTERBURY DW CERT NO.:

PSS Work Order #: 1510191Z PAGE 1 OF 1

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

(2)

| LAB NO. | *SAMPLE IDENTIFICATION | *DATE (SAMPLED) | *TIME (SAMPLED) | MATRIX (See Codes) | No. CONTAINERS | SAMPLE TYPE C = COMP G = GRAB | Preservatives Used: HCL | Analysis/ Method Required (3) *: VOC VIA 8260 | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | MW1 | 10/19/15 | 0925 | GW | 3 | G | | X | |
| 2 | MW5 | ↓ | 0925 | ↓ | ↓ | ↓ | | ↓ | |
| 3 | MW2 | | 0938 | | | | | | |
| 4 | MW37 | | 0940 | | | | | | |
| 5 | MW3 | | 0950 | | | | | | |
| 6 | MW14 | | 0950 | | | | | | |
| 7 | MW47 | | 0958 | | | | | | |
| 8 | MW4 | ↓ | 1000 | ↓ | ↓ | ↓ | | ↓ | |

(5)

| Relinquished By: | Date | Time | Received By: |
|---|---|---|---|
| (1) | 10/19/15 | 1300 | |
| (2) | 10/19/15 | 2:30 | |
| (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: 6.5°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 #** | 15101912 | **Received By** | Amber Confer |
| **Client Name** | UMM Shore Regional Health at Ches | **Date Received** | 10/19/2015 02:30:00 PM |
| **Project Name** | CRHC | **Delivered By** | Trans Time Express |
| **Disposal Date** | 11/23/2015 | **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) | 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**

| | | | |
|---|---|---|---|
| | | Sampler Name | RM, MA |
| 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 8

Total No. of Containers Received 24

**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 #** | 15101912 | **Received By** | Amber Confer |
| **Client Name** | UMM Shore Regional Health at Ches | **Date Received** | 10/19/2015 02:30:00 PM |
| **Project Name** | CRHC | **Delivered By** | Trans Time Express |
| **Disposal Date** | 11/23/2015 | **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: 10/19/2015

PM Review and Approval: Lynn Jackson — Date: 10/20/2015

# Analytical Report for

## UMM Shore Regional Health at Chestertown

## Certificate of Analysis No.: 15102019

**Project Manager: Ken Hannon**

**Project Name : CRHC**

**Project Location: Chestertown, MD**

**October 29, 2015**

**Phase Separation Science, Inc.**

**6630 Baltimore National Pike**
**Baltimore, MD 21228**
**Phone: (410) 747-8770**
**Fax: (410) 788-8723**

**OFFICES:**
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**BALTIMORE, MD 21228**
**410-747-8770**
**800-932-9047**
**FAX 410-788-8723**

# PHASE SEPARATION SCIENCE, INC.

October 29, 2015

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

Reference: PSS Work Order(s) No: **15102019**
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 **15102019**.

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 November 24, 2015, 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 at Chestertown

## Project Name: CRHC

**Work Order Number(s): 15102019**

The following samples were received under chain of custody by Phase Separation Science (PSS) on 10/20/2015 at 01:50 pm

| Lab Sample Id | Sample Id | Matrix | Date/Time Collected |
|---|---|---|---|
| 15102019-001 | MW28 | GROUND WATER | 10/19/15 15:10 |
| 15102019-002 | MW29 | GROUND WATER | 10/19/15 15:10 |
| 15102019-003 | MW18 | GROUND WATER | 10/19/15 15:15 |
| 15102019-004 | MW25 | GROUND WATER | 10/19/15 15:15 |
| 15102019-005 | MW23 | GROUND WATER | 10/19/15 15:30 |
| 15102019-006 | MW24 | GROUND WATER | 10/19/15 15:30 |

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. |

**Certifications:**

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

**OFFICES:**
**6630 BALTIMORE NATIONAL PIKE**
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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102019

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

October 29, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW28** **Date/Time Sampled: 10/19/2015 15:10** **PSS Sample ID: 15102019-001**
**Matrix: GROUND WATER** **Date/Time Received: 10/20/2015 13:50**

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 | 10/22/15 | 10/23/15 00:56 | 1029 |

**OFFICES:**
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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: 15102019

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

October 29, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW28** **Date/Time Sampled: 10/19/2015 15:10** **PSS Sample ID: 15102019-001**
**Matrix: GROUND WATER** **Date/Time Received: 10/20/2015 13:50**

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 | 10/27/15 | 10/27/15 13:08 | 1011 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| Benzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| Chloroform | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102019

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

October 29, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW28** **Date/Time Sampled: 10/19/2015 15:10** **PSS Sample ID: 15102019-001**
**Matrix: GROUND WATER** **Date/Time Received: 10/20/2015 13:50**

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 | 10/27/15 | 10/27/15 13:08 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| 4-Methyl-2-Pentanone | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| Methyl-t-butyl ether | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| Styrene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| Toluene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:08 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102019

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

October 29, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW29** **Date/Time Sampled: 10/19/2015 15:10** **PSS Sample ID: 15102019-002**
**Matrix: GROUND WATER** **Date/Time Received: 10/20/2015 13:50**

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 | 10/22/15 | 10/23/15 01:21 | 1029 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102019

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

October 29, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW29** **Date/Time Sampled: 10/19/2015 15:10** **PSS Sample ID: 15102019-002**
**Matrix: GROUND WATER** **Date/Time Received: 10/20/2015 13:50**

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 | 10/27/15 | 10/27/15 13:43 | 1011 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| Benzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| Chloroform | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102019

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

October 29, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW29** **Date/Time Sampled: 10/19/2015 15:10** **PSS Sample ID: 15102019-002**
**Matrix: GROUND WATER** **Date/Time Received: 10/20/2015 13:50**

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 | 10/27/15 | 10/27/15 13:43 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| 4-Methyl-2-Pentanone | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| Methyl-t-butyl ether | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| Styrene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| Toluene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 13:43 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102019

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

October 29, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW18** **Date/Time Sampled: 10/19/2015 15:15** **PSS Sample ID: 15102019-003**
**Matrix: GROUND WATER** **Date/Time Received: 10/20/2015 13:50**

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 | 10/22/15 | 10/23/15 01:46 | 1029 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102019

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

October 29, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW18** **Date/Time Sampled: 10/19/2015 15:15** **PSS Sample ID: 15102019-003**
**Matrix: GROUND WATER** **Date/Time Received: 10/20/2015 13:50**

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 | 10/27/15 | 10/27/15 14:18 | 1011 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| Benzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| Chloroform | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102019

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

October 29, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW18** **Date/Time Sampled: 10/19/2015 15:15** **PSS Sample ID: 15102019-003**
**Matrix: GROUND WATER** **Date/Time Received: 10/20/2015 13:50**

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 | 10/27/15 | 10/27/15 14:18 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| 4-Methyl-2-Pentanone | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| Methyl-t-butyl ether | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| Styrene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| Toluene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:18 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102019

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

October 29, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW25** **Date/Time Sampled: 10/19/2015 15:15** **PSS Sample ID: 15102019-004**
**Matrix: GROUND WATER** **Date/Time Received: 10/20/2015 13:50**

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 | 10/22/15 | 10/23/15 02:11 | 1029 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102019

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

October 29, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW25** **Date/Time Sampled: 10/19/2015 15:15** **PSS Sample ID: 15102019-004**
**Matrix: GROUND WATER** **Date/Time Received: 10/20/2015 13:50**

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 | 10/27/15 | 10/27/15 14:53 | 1011 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| Benzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| Chloroform | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102019

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

October 29, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW25** **Date/Time Sampled: 10/19/2015 15:15** **PSS Sample ID: 15102019-004**
**Matrix: GROUND WATER** **Date/Time Received: 10/20/2015 13:50**

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 | 10/27/15 | 10/27/15 14:53 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| 4-Methyl-2-Pentanone | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| Methyl-t-butyl ether | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| Styrene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| Toluene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 14:53 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102019

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

October 29, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW23** **Date/Time Sampled: 10/19/2015 15:30** **PSS Sample ID: 15102019-005**
**Matrix: GROUND WATER** **Date/Time Received: 10/20/2015 13:50**

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 | 10/22/15 | 10/23/15 02:11 | 1029 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102019

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

October 29, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW23** **Date/Time Sampled: 10/19/2015 15:30** **PSS Sample ID: 15102019-005**
**Matrix: GROUND WATER** **Date/Time Received: 10/20/2015 13:50**

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 | 10/27/15 | 10/27/15 15:28 | 1011 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Benzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Chloroform | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102019

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

October 29, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW23** **Date/Time Sampled: 10/19/2015 15:30** **PSS Sample ID: 15102019-005**
**Matrix: GROUND WATER** **Date/Time Received: 10/20/2015 13:50**

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 | 10/27/15 | 10/27/15 15:28 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| 4-Methyl-2-Pentanone | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Methyl-t-butyl ether | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Styrene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Toluene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 15:28 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102019

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

October 29, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW24** **Date/Time Sampled: 10/19/2015 15:30** **PSS Sample ID: 15102019-006**
**Matrix: GROUND WATER** **Date/Time Received: 10/20/2015 13:50**

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 | 10/22/15 | 10/23/15 02:36 | 1029 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102019

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

October 29, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW24** **Date/Time Sampled: 10/19/2015 15:30** **PSS Sample ID: 15102019-006**
**Matrix: GROUND WATER** **Date/Time Received: 10/20/2015 13:50**

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 | 10/27/15 | 10/27/15 16:03 | 1011 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| Benzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| Chloroform | **1.5** | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |

**OFFICES:**
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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102019

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

October 29, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW24** **Date/Time Sampled: 10/19/2015 15:30** **PSS Sample ID: 15102019-006**
**Matrix: GROUND WATER** **Date/Time Received: 10/20/2015 13:50**

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 | 10/27/15 | 10/27/15 16:03 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| 4-Methyl-2-Pentanone | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| Methyl-t-butyl ether | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| Styrene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| Toluene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 16:03 | 1011 |

# Case Narrative Summary

## Client Name: UMM Shore Regional Health at Chestertown

## Project Name: CRHC

Work Order Number(s): 15102019

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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.

**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): 15102019**
Report Prepared For: UMM Shore Regional Health at Chestertown,
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** | MW28 | Initial | 15102019-001 | 1029 | W | 57844 | 127106 | 10/19/2015 | 10/22/2015 13:43 | 10/23/2015 00:56 |
| | MW29 | Initial | 15102019-002 | 1029 | W | 57844 | 127106 | 10/19/2015 | 10/22/2015 13:43 | 10/23/2015 01:21 |
| | MW18 | Initial | 15102019-003 | 1029 | W | 57844 | 127106 | 10/19/2015 | 10/22/2015 13:43 | 10/23/2015 01:46 |
| | MW25 | Initial | 15102019-004 | 1029 | W | 57844 | 127106 | 10/19/2015 | 10/22/2015 13:43 | 10/23/2015 02:11 |
| | MW23 | Initial | 15102019-005 | 1029 | W | 57844 | 127106 | 10/19/2015 | 10/22/2015 13:43 | 10/23/2015 02:11 |
| | MW24 | Initial | 15102019-006 | 1029 | W | 57844 | 127106 | 10/19/2015 | 10/22/2015 13:43 | 10/23/2015 02:36 |
| | 57844-1-BKS | BKS | 57844-1-BKS | 1029 | W | 57844 | 127106 | -------- | 10/22/2015 13:43 | 10/23/2015 01:21 |
| | 57844-1-BLK | BLK | 57844-1-BLK | 1029 | W | 57844 | 127106 | -------- | 10/22/2015 13:43 | 10/23/2015 00:56 |
| | 57844-1-BSD | BSD | 57844-1-BSD | 1029 | W | 57844 | 127106 | -------- | 10/22/2015 13:43 | 10/23/2015 01:46 |
| **SW-846 8260 B** | MW28 | Initial | 15102019-001 | 1011 | W | 57909 | 127215 | 10/19/2015 | 10/27/2015 09:14 | 10/27/2015 13:08 |
| | MW29 | Initial | 15102019-002 | 1011 | W | 57909 | 127215 | 10/19/2015 | 10/27/2015 09:14 | 10/27/2015 13:43 |
| | MW18 | Initial | 15102019-003 | 1011 | W | 57909 | 127215 | 10/19/2015 | 10/27/2015 09:14 | 10/27/2015 14:18 |
| | MW25 | Initial | 15102019-004 | 1011 | W | 57909 | 127215 | 10/19/2015 | 10/27/2015 09:14 | 10/27/2015 14:53 |
| | MW23 | Initial | 15102019-005 | 1011 | W | 57909 | 127215 | 10/19/2015 | 10/27/2015 09:14 | 10/27/2015 15:28 |
| | MW24 | Initial | 15102019-006 | 1011 | W | 57909 | 127215 | 10/19/2015 | 10/27/2015 09:14 | 10/27/2015 16:03 |
| | 57909-1-BKS | BKS | 57909-1-BKS | 1011 | W | 57909 | 127215 | -------- | 10/27/2015 09:14 | 10/27/2015 10:49 |
| | 57909-1-BLK | BLK | 57909-1-BLK | 1011 | W | 57909 | 127215 | -------- | 10/27/2015 09:14 | 10/27/2015 12:34 |
| | MW28 S | MS | 15102019-001 S | 1011 | W | 57909 | 127215 | 10/19/2015 | 10/27/2015 09:14 | 10/27/2015 16:38 |
| | MW28 SD | MSD | 15102019-001 SD | 1011 | W | 57909 | 127215 | 10/19/2015 | 10/27/2015 09:14 | 10/27/2015 17:13 |

# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15102019

UMM Shore Regional Health at Chestertown
CRHC

**Analytical Method: SW-846 8015 C** Prep Method: SW3510C
Seq Number: 127106 Matrix: Ground Water Date Prep: 10/22/2015
PSS Sample ID: 15102019-001

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| o-Terphenyl | 67 | | 37-136 | % | 10/23/15 00:56 |

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127215 Matrix: Ground Water Date Prep: 10/27/2015
PSS Sample ID: 15102019-001

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 102 | | 81-133 | % | 10/27/15 13:08 |
| Dibromofluoromethane | 102 | | 84-110 | % | 10/27/15 13:08 |
| Toluene-D8 | 100 | | 94-109 | % | 10/27/15 13:08 |

**Analytical Method: SW-846 8015 C** Prep Method: SW3510C
Seq Number: 127106 Matrix: Ground Water Date Prep: 10/22/2015
PSS Sample ID: 15102019-002

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| o-Terphenyl | 76 | | 37-136 | % | 10/23/15 01:21 |

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127215 Matrix: Ground Water Date Prep: 10/27/2015
PSS Sample ID: 15102019-002

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 102 | | 81-133 | % | 10/27/15 13:43 |
| Dibromofluoromethane | 102 | | 84-110 | % | 10/27/15 13:43 |
| Toluene-D8 | 101 | | 94-109 | % | 10/27/15 13:43 |

**Analytical Method: SW-846 8015 C** Prep Method: SW3510C
Seq Number: 127106 Matrix: Ground Water Date Prep: 10/22/2015
PSS Sample ID: 15102019-003

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| o-Terphenyl | 74 | | 37-136 | % | 10/23/15 01:46 |

# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15102019

UMM Shore Regional Health at Chestertown
CRHC

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127215 Matrix: Ground Water Date Prep: 10/27/2015
PSS Sample ID: 15102019-003

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 102 | | 81-133 | % | 10/27/15 14:18 |
| Dibromofluoromethane | 102 | | 84-110 | % | 10/27/15 14:18 |
| Toluene-D8 | 97 | | 94-109 | % | 10/27/15 14:18 |

**Analytical Method: SW-846 8015 C** Prep Method: SW3510C
Seq Number: 127106 Matrix: Ground Water Date Prep: 10/22/2015
PSS Sample ID: 15102019-004

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| o-Terphenyl | 60 | | 37-136 | % | 10/23/15 02:11 |

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127215 Matrix: Ground Water Date Prep: 10/27/2015
PSS Sample ID: 15102019-004

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 102 | | 81-133 | % | 10/27/15 14:53 |
| Dibromofluoromethane | 102 | | 84-110 | % | 10/27/15 14:53 |
| Toluene-D8 | 101 | | 94-109 | % | 10/27/15 14:53 |

**Analytical Method: SW-846 8015 C** Prep Method: SW3510C
Seq Number: 127106 Matrix: Ground Water Date Prep: 10/22/2015
PSS Sample ID: 15102019-005

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| o-Terphenyl | 78 | | 37-136 | % | 10/23/15 02:11 |

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127215 Matrix: Ground Water Date Prep: 10/27/2015
PSS Sample ID: 15102019-005

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 104 | | 81-133 | % | 10/27/15 15:28 |
| Dibromofluoromethane | 102 | | 84-110 | % | 10/27/15 15:28 |
| Toluene-D8 | 100 | | 94-109 | % | 10/27/15 15:28 |

# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15102019

UMM Shore Regional Health at Chestertown
CRHC

**Analytical Method: SW-846 8015 C** Prep Method: SW3510C
Seq Number: 127106 Matrix: Ground Water Date Prep: 10/22/2015
PSS Sample ID: 15102019-006

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| o-Terphenyl | 46 | | 37-136 | % | 10/23/15 02:36 |

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127215 Matrix: Ground Water Date Prep: 10/27/2015
PSS Sample ID: 15102019-006

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 102 | | 81-133 | % | 10/27/15 16:03 |
| Dibromofluoromethane | 103 | | 84-110 | % | 10/27/15 16:03 |
| Toluene-D8 | 100 | | 94-109 | % | 10/27/15 16:03 |

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 15102019

UMM Shore Regional Health at Chestertown
CRHC

**Analytical Method: SW-846 8015 C** Prep Method: SW3510C
Seq Number: 127106 Matrix: Water Date Prep: 10/22/15
MB Sample Id: 57844-1-BLK LCS Sample Id: 57844-1-BKS LCSD Sample Id: 57844-1-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 | 0.8821 | 88 | 0.8601 | 86 | 61-119 | 3 | 20 | mg/L | 10/23/15 01:21 | |

| Surrogate | MB %Rec | MB Flag | LCS Result | LCS Flag | LCSD Result | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | 60 | | 72 | | 70 | | 37-136 | % | 10/23/15 01:21 |

# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15102019

UMM Shore Regional Health at Chestertown
CRHC

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127215 Matrix: Water Date Prep: 10/27/15
MB Sample Id: 57909-1-BLK LCS Sample Id: 57909-1-BKS

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | Limits | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|
| Acetone | <10.00 | 50.00 | 60.76 | 122 | 53-146 | ug/L | 10/27/15 10:49 | |
| tert-Amyl alcohol | <20.00 | 50.00 | 56.50 | 113 | 27-139 | ug/L | 10/27/15 10:49 | |
| tert-Amyl ethyl ether | <10.00 | 50.00 | 51.46 | 103 | 60-121 | ug/L | 10/27/15 10:49 | |
| tert-Amyl methyl ether | <10.00 | 50.00 | 51.62 | 103 | 61-129 | ug/L | 10/27/15 10:49 | |
| Benzene | <1.000 | 50.00 | 50.48 | 101 | 77-122 | ug/L | 10/27/15 10:49 | |
| Bromochloromethane | <1.000 | 50.00 | 51.88 | 104 | 71-122 | ug/L | 10/27/15 10:49 | |
| Bromodichloromethane | <1.000 | 50.00 | 54.14 | 108 | 76-122 | ug/L | 10/27/15 10:49 | |
| Bromoform | <5.000 | 50.00 | 49.47 | 99 | 69-115 | ug/L | 10/27/15 10:49 | |
| Bromomethane | <1.000 | 50.00 | 53.31 | 107 | 40-147 | ug/L | 10/27/15 10:49 | |
| tert-Butyl alcohol | <20.00 | 50.00 | 52.33 | 105 | 15-150 | ug/L | 10/27/15 10:49 | |
| 2-Butanone (MEK) | <10.00 | 50.00 | 50.87 | 102 | 56-133 | ug/L | 10/27/15 10:49 | |
| tert-Butyl ethyl ether | <10.00 | 50.00 | 52.36 | 105 | 62-137 | ug/L | 10/27/15 10:49 | |
| Carbon Disulfide | <10.00 | 50.00 | 51.74 | 103 | 62-134 | ug/L | 10/27/15 10:49 | |
| Carbon Tetrachloride | <1.000 | 50.00 | 52.69 | 105 | 74-127 | ug/L | 10/27/15 10:49 | |
| Chlorobenzene | <1.000 | 50.00 | 50.27 | 101 | 76-116 | ug/L | 10/27/15 10:49 | |
| Chloroethane | <1.000 | 50.00 | 50.82 | 102 | 59-132 | ug/L | 10/27/15 10:49 | |
| Chloroform | <1.000 | 50.00 | 51.52 | 103 | 71-118 | ug/L | 10/27/15 10:49 | |
| Chloromethane | <1.000 | 50.00 | 51.12 | 102 | 62-131 | ug/L | 10/27/15 10:49 | |
| Cyclohexane | <10.00 | 50.00 | 50.74 | 101 | 46-150 | ug/L | 10/27/15 10:49 | |
| 1,2-Dibromo-3-Chloropropane | <10.00 | 50.00 | 51.94 | 104 | 59-135 | ug/L | 10/27/15 10:49 | |
| Dibromochloromethane | <1.000 | 50.00 | 48.08 | 96 | 75-114 | ug/L | 10/27/15 10:49 | |
| 1,2-Dibromoethane (EDB) | <1.000 | 50.00 | 51.83 | 104 | 78-121 | ug/L | 10/27/15 10:49 | |
| 1,2-Dichlorobenzene | <1.000 | 50.00 | 50.57 | 101 | 80-122 | ug/L | 10/27/15 10:49 | |
| 1,3-Dichlorobenzene | <1.000 | 50.00 | 49.64 | 99 | 80-122 | ug/L | 10/27/15 10:49 | |
| 1,4-Dichlorobenzene | <1.000 | 50.00 | 50.73 | 101 | 77-118 | ug/L | 10/27/15 10:49 | |
| Dichlorodifluoromethane | <1.000 | 50.00 | 51.75 | 104 | 54-139 | ug/L | 10/27/15 10:49 | |
| 1,1-Dichloroethane | <1.000 | 50.00 | 51.19 | 102 | 51-136 | ug/L | 10/27/15 10:49 | |
| 1,2-Dichloroethane | <1.000 | 50.00 | 54.02 | 108 | 64-130 | ug/L | 10/27/15 10:49 | |
| 1,1-Dichloroethene | <1.000 | 50.00 | 51.05 | 102 | 59-123 | ug/L | 10/27/15 10:49 | |
| cis-1,2-Dichloroethene | <1.000 | 50.00 | 50.60 | 101 | 77-119 | ug/L | 10/27/15 10:49 | |
| 1,2-Dichloropropane | <1.000 | 50.00 | 50.26 | 101 | 75-125 | ug/L | 10/27/15 10:49 | |
| cis-1,3-Dichloropropene | <1.000 | 50.00 | 53.75 | 108 | 74-123 | ug/L | 10/27/15 10:49 | |
| trans-1,3-Dichloropropene | <1.000 | 50.00 | 55.43 | 111 | 73-116 | ug/L | 10/27/15 10:49 | |
| trans-1,2-Dichloroethene | <1.000 | 50.00 | 50.36 | 101 | 58-134 | ug/L | 10/27/15 10:49 | |
| Diisopropyl ether | <10.00 | 50.00 | 52.43 | 105 | 48-146 | ug/L | 10/27/15 10:49 | |
| Ethylbenzene | <1.000 | 50.00 | 50.59 | 101 | 79-122 | ug/L | 10/27/15 10:49 | |
| 2-Hexanone | <10.00 | 50.00 | 54.24 | 108 | 56-134 | ug/L | 10/27/15 10:49 | |
| Isopropylbenzene | <1.000 | 50.00 | 50.75 | 102 | 80-128 | ug/L | 10/27/15 10:49 | |
| Methyl Acetate | <10.00 | 50.00 | 51.87 | 104 | 47-145 | ug/L | 10/27/15 10:49 | |
| Methylcyclohexane | <10.00 | 50.00 | 50.26 | 101 | 61-155 | ug/L | 10/27/15 10:49 | |
| Methylene Chloride | <1.000 | 50.00 | 49.51 | 99 | 61-126 | ug/L | 10/27/15 10:49 | |
| 4-Methyl-2-Pentanone | <5.000 | 50.00 | 52.11 | 104 | 45-145 | ug/L | 10/27/15 10:49 | |
| Methyl-t-butyl ether | <1.000 | 50.00 | 52.83 | 106 | 30-168 | ug/L | 10/27/15 10:49 | |
| Naphthalene | <1.000 | 50.00 | 53.15 | 106 | 46-154 | ug/L | 10/27/15 10:49 | |
| Styrene | <1.000 | 50.00 | 50.74 | 101 | 73-118 | ug/L | 10/27/15 10:49 | |
| 1,1,2,2-Tetrachloroethane | <1.000 | 50.00 | 53.01 | 106 | 71-126 | ug/L | 10/27/15 10:49 | |
| Tetrachloroethene | <1.000 | 50.00 | 51.29 | 103 | 78-113 | ug/L | 10/27/15 10:49 | |
| Toluene | <1.000 | 50.00 | 50.63 | 101 | 77-123 | ug/L | 10/27/15 10:49 | |
| 1,2,3-Trichlorobenzene | <1.000 | 50.00 | 54.09 | 108 | 66-140 | ug/L | 10/27/15 10:49 | |
| 1,2,4-Trichlorobenzene | <1.000 | 50.00 | 51.20 | 102 | 72-143 | ug/L | 10/27/15 10:49 | |
| 1,1,1-Trichloroethane | <1.000 | 50.00 | 51.30 | 103 | 66-133 | ug/L | 10/27/15 10:49 | |

# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15102019

UMM Shore Regional Health at Chestertown
CRHC

**Analytical Method: SW-846 8260 B**

Prep Method: SW5030B

Seq Number: 127215

Matrix: Water

Date Prep: 10/27/15

MB Sample Id: 57909-1-BLK

LCS Sample Id: 57909-1-BKS

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | Limits | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichloroethane | <1.000 | 50.00 | 53.08 | 106 | 72-128 | ug/L | 10/27/15 10:49 | |
| Trichloroethene | <1.000 | 50.00 | 50.18 | 100 | 72-127 | ug/L | 10/27/15 10:49 | |
| Trichlorofluoromethane | <5.000 | 50.00 | 54.56 | 109 | 45-130 | ug/L | 10/27/15 10:49 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | <1.000 | 50.00 | 52.86 | 106 | 56-126 | ug/L | 10/27/15 10:49 | |
| Vinyl Chloride | <1.000 | 50.00 | 51.20 | 102 | 64-132 | ug/L | 10/27/15 10:49 | |
| m,p-Xylenes | <2.000 | 100 | 100.4 | 100 | 78-119 | ug/L | 10/27/15 10:49 | |
| o-Xylene | <1.000 | 50.00 | 50.26 | 101 | 79-123 | ug/L | 10/27/15 10:49 | |

| Surrogate | MB %Rec | MB Flag | LCS Result | LCS Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 103 | | 103 | | 81-133 | % | 10/27/15 10:49 |
| Dibromofluoromethane | 103 | | 103 | | 84-110 | % | 10/27/15 10:49 |
| Toluene-D8 | 101 | | 100 | | 94-109 | % | 10/27/15 10:49 |

# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15102019

UMM Shore Regional Health at Chestertown
CRHC

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127215 Matrix: Ground Water Date Prep: 10/27/15
Parent Sample Id: 15102019-001 MS Sample Id: 15102019-001 S MSD Sample Id: 15102019-001 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 | 52.14 | 104 | 53.67 | 107 | 41-161 | 3 | 25 | ug/L | 10/27/15 16:38 | |
| tert-Amyl alcohol | <20.00 | 50.00 | 55.92 | 112 | 57.37 | 115 | 5-149 | 3 | 25 | ug/L | 10/27/15 16:38 | |
| tert-Amyl ethyl ether | <10.00 | 50.00 | 55.14 | 110 | 52.61 | 105 | 48-129 | 5 | 25 | ug/L | 10/27/15 16:38 | |
| tert-Amyl methyl ether | <10.00 | 50.00 | 55.05 | 110 | 52.91 | 106 | 50-139 | 4 | 25 | ug/L | 10/27/15 16:38 | |
| Benzene | <1.000 | 50.00 | 56.07 | 112 | 53.68 | 107 | 75-132 | 4 | 25 | ug/L | 10/27/15 16:38 | |
| Bromochloromethane | <1.000 | 50.00 | 57.46 | 115 | 55.13 | 110 | 67-130 | 4 | 25 | ug/L | 10/27/15 16:38 | |
| Bromodichloromethane | <1.000 | 50.00 | 58.97 | 118 | 56.09 | 112 | 69-134 | 5 | 25 | ug/L | 10/27/15 16:38 | |
| Bromoform | <5.000 | 50.00 | 50.11 | 100 | 50.61 | 101 | 65-115 | 1 | 25 | ug/L | 10/27/15 16:38 | |
| Bromomethane | <1.000 | 50.00 | 60.51 | 121 | 58.80 | 118 | 29-154 | 3 | 25 | ug/L | 10/27/15 16:38 | |
| tert-Butyl alcohol | <20.00 | 50.00 | 58.15 | 116 | 55.72 | 111 | 1-183 | 4 | 25 | ug/L | 10/27/15 16:38 | |
| 2-Butanone (MEK) | <10.00 | 50.00 | 44.98 | 90 | 41.91 | 84 | 47-140 | 7 | 25 | ug/L | 10/27/15 16:38 | |
| tert-Butyl ethyl ether | <10.00 | 50.00 | 56.28 | 113 | 54.09 | 108 | 55-141 | 4 | 25 | ug/L | 10/27/15 16:38 | |
| Carbon Disulfide | <10.00 | 50.00 | 56.76 | 114 | 54.64 | 109 | 59-146 | 4 | 25 | ug/L | 10/27/15 16:38 | |
| Carbon Tetrachloride | <1.000 | 50.00 | 59.21 | 118 | 55.59 | 111 | 74-136 | 6 | 25 | ug/L | 10/27/15 16:38 | |
| Chlorobenzene | <1.000 | 50.00 | 54.85 | 110 | 53.24 | 106 | 78-115 | 3 | 25 | ug/L | 10/27/15 16:38 | |
| Chloroethane | <1.000 | 50.00 | 60.32 | 121 | 58.66 | 117 | 40-150 | 3 | 25 | ug/L | 10/27/15 16:38 | |
| Chloroform | <1.000 | 50.00 | 57.37 | 115 | 54.38 | 109 | 67-130 | 5 | 25 | ug/L | 10/27/15 16:38 | |
| Chloromethane | <1.000 | 50.00 | 59.48 | 119 | 57.03 | 114 | 59-144 | 4 | 25 | ug/L | 10/27/15 16:38 | |
| Cyclohexane | <10.00 | 50.00 | 56.02 | 112 | 53.62 | 107 | 34-161 | 4 | 25 | ug/L | 10/27/15 16:38 | |
| 1,2-Dibromo-3-Chloropropane | <10.00 | 50.00 | 48.79 | 98 | 49.51 | 99 | 45-125 | 1 | 25 | ug/L | 10/27/15 16:38 | |
| Dibromochloromethane | <1.000 | 50.00 | 49.62 | 99 | 49.60 | 99 | 73-114 | 0 | 25 | ug/L | 10/27/15 16:38 | |
| 1,2-Dibromoethane (EDB) | <1.000 | 50.00 | 54.27 | 109 | 53.67 | 107 | 72-126 | 1 | 25 | ug/L | 10/27/15 16:38 | |
| 1,2-Dichlorobenzene | <1.000 | 50.00 | 53.80 | 108 | 53.43 | 107 | 73-117 | 1 | 25 | ug/L | 10/27/15 16:38 | |
| 1,3-Dichlorobenzene | <1.000 | 50.00 | 52.41 | 105 | 52.00 | 104 | 73-117 | 1 | 25 | ug/L | 10/27/15 16:38 | |
| 1,4-Dichlorobenzene | <1.000 | 50.00 | 53.34 | 107 | 53.63 | 107 | 72-111 | 1 | 25 | ug/L | 10/27/15 16:38 | |
| Dichlorodifluoromethane | <1.000 | 50.00 | 57.06 | 114 | 54.31 | 109 | 47-159 | 5 | 25 | ug/L | 10/27/15 16:38 | |
| 1,1-Dichloroethane | <1.000 | 50.00 | 56.87 | 114 | 53.85 | 108 | 44-152 | 5 | 25 | ug/L | 10/27/15 16:38 | |
| 1,2-Dichloroethane | <1.000 | 50.00 | 58.90 | 118 | 56.06 | 112 | 60-142 | 5 | 25 | ug/L | 10/27/15 16:38 | |
| 1,1-Dichloroethene | <1.000 | 50.00 | 59.57 | 119 | 56.66 | 113 | 50-136 | 5 | 25 | ug/L | 10/27/15 16:38 | |
| cis-1,2-Dichloroethene | <1.000 | 50.00 | 56.20 | 112 | 53.72 | 107 | 76-127 | 5 | 25 | ug/L | 10/27/15 16:38 | |
| 1,2-Dichloropropane | <1.000 | 50.00 | 54.75 | 110 | 52.49 | 105 | 70-139 | 4 | 25 | ug/L | 10/27/15 16:38 | |
| cis-1,3-Dichloropropene | <1.000 | 50.00 | 57.41 | 115 | 54.59 | 109 | 64-127 | 5 | 25 | ug/L | 10/27/15 16:38 | |
| trans-1,3-Dichloropropene | <1.000 | 50.00 | 58.16 | 116 | 55.89 | 112 | 62-123 | 4 | 25 | ug/L | 10/27/15 16:38 | |
| trans-1,2-Dichloroethene | <1.000 | 50.00 | 55.97 | 112 | 53.19 | 106 | 54-144 | 5 | 25 | ug/L | 10/27/15 16:38 | |
| Diisopropyl ether | <10.00 | 50.00 | 56.90 | 114 | 54.16 | 108 | 49-150 | 5 | 25 | ug/L | 10/27/15 16:38 | |
| Ethylbenzene | <1.000 | 50.00 | 54.96 | 110 | 53.52 | 107 | 74-129 | 3 | 25 | ug/L | 10/27/15 16:38 | |
| 2-Hexanone | <10.00 | 50.00 | 45.47 | 91 | 44.50 | 89 | 50-130 | 2 | 25 | ug/L | 10/27/15 16:38 | |
| Isopropylbenzene | <1.000 | 50.00 | 53.76 | 108 | 52.75 | 106 | 72-130 | 2 | 25 | ug/L | 10/27/15 16:38 | |
| Methyl Acetate | <10.00 | 50.00 | 57.67 | 115 | 55.82 | 112 | 37-143 | 3 | 25 | ug/L | 10/27/15 16:38 | |
| Methylcyclohexane | <10.00 | 50.00 | 53.97 | 108 | 51.53 | 103 | 55-148 | 5 | 25 | ug/L | 10/27/15 16:38 | |
| Methylene Chloride | <1.000 | 50.00 | 55.31 | 111 | 53.02 | 106 | 56-137 | 4 | 25 | ug/L | 10/27/15 16:38 | |
| 4-Methyl-2-Pentanone | <5.000 | 50.00 | 45.87 | 92 | 43.85 | 88 | 44-133 | 5 | 25 | ug/L | 10/27/15 16:38 | |
| Methyl-t-butyl ether | <1.000 | 50.00 | 56.35 | 113 | 54.49 | 109 | 22-182 | 3 | 25 | ug/L | 10/27/15 16:38 | |
| Naphthalene | <1.000 | 50.00 | 49.90 | 100 | 51.96 | 104 | 7-137 | 4 | 25 | ug/L | 10/27/15 16:38 | |
| Styrene | <1.000 | 50.00 | 54.67 | 109 | 53.83 | 108 | 67-121 | 2 | 25 | ug/L | 10/27/15 16:38 | |
| 1,1,2,2-Tetrachloroethane | <1.000 | 50.00 | 52.46 | 105 | 53.37 | 107 | 68-127 | 2 | 25 | ug/L | 10/27/15 16:38 | |
| Tetrachloroethene | <1.000 | 50.00 | 56.97 | 114 | 54.25 | 109 | 69-126 | 5 | 25 | ug/L | 10/27/15 16:38 | |
| Toluene | <1.000 | 50.00 | 56.35 | 113 | 53.54 | 107 | 74-132 | 5 | 25 | ug/L | 10/27/15 16:38 | |
| 1,2,3-Trichlorobenzene | <1.000 | 50.00 | 50.56 | 101 | 53.65 | 107 | 9-139 | 6 | 25 | ug/L | 10/27/15 16:38 | |
| 1,2,4-Trichlorobenzene | <1.000 | 50.00 | 52.26 | 105 | 52.02 | 104 | 31-135 | 0 | 25 | ug/L | 10/27/15 16:38 | |
| 1,1,1-Trichloroethane | <1.000 | 50.00 | 57.80 | 116 | 54.96 | 110 | 70-138 | 5 | 25 | ug/L | 10/27/15 16:38 | |

# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15102019

UMM Shore Regional Health at Chestertown
CRHC

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

Seq Number: 127215 Matrix: Ground Water Date Prep: 10/27/15

Parent Sample Id: 15102019-001 MS Sample Id: 15102019-001 S MSD Sample Id: 15102019-001 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 | 55.96 | 112 | 54.86 | 110 | 65-143 | 2 | 25 | ug/L | 10/27/15 16:38 | |
| Trichloroethene | <1.000 | 50.00 | 55.37 | 111 | 52.55 | 105 | 67-139 | 5 | 25 | ug/L | 10/27/15 16:38 | |
| Trichlorofluoromethane | <5.000 | 50.00 | 62.77 | 126 | 61.26 | 123 | 37-147 | 2 | 25 | ug/L | 10/27/15 16:38 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | <1.000 | 50.00 | 60.46 | 121 | 58.07 | 116 | 47-139 | 4 | 25 | ug/L | 10/27/15 16:38 | |
| Vinyl Chloride | <1.000 | 50.00 | 63.52 | 127 | 59.68 | 119 | 60-146 | 6 | 25 | ug/L | 10/27/15 16:38 | |
| m,p-Xylenes | <2.000 | 100 | 109.6 | 110 | 107.1 | 107 | 78-119 | 2 | 25 | ug/L | 10/27/15 16:38 | |
| o-Xylene | <1.000 | 50.00 | 54.08 | 108 | 53.25 | 107 | 80-123 | 2 | 25 | ug/L | 10/27/15 16:38 | |

| Surrogate | MS Result | MS Flag | MSD Result | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 99 | | 98 | | 81-133 | % | 10/27/15 16:38 |
| Dibromofluoromethane | 106 | | 103 | | 84-110 | % | 10/27/15 16:38 |
| Toluene-D8 | 104 | | 100 | | 94-109 | % | 10/27/15 16:38 |

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@BRIGHTFIELDSINC.COM FAX NO.: ( )

*PROJECT NAME: CRHC PROJECT NO.:

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

SAMPLER(S): R. MORTEL, M. ATTERBURY DW CERT NO.:

PSS Work Order #: 15102019 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 | DRO VA 8015 | VOC VA 8260 | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Preservatives Used | | HCL | |
| 1 | MW28 | 10/19/15 | 1510 | GW | 4 | G | X | X | |
| 2 | MW29 | | 1510 | | | | | | |
| 3 | MW18 | | 1515 | | | | | | |
| 4 | MW25 | | 1515 | | | | | | |
| 5 | MW23 | | 1530 | | | | | | |
| 6 | MW24 | | 1530 | | | | | | |

(3) *

(5)

| Relinquished By: | Date | Time | Received By: |
|---|---|---|---|
| (1) R. Mortel | 10/20/15 | 1200 | L. MACLIN #655 |
| (2) L. MACLIN 655 | 10/20/15 | 1:50 | Atterbury Cooper |
| (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: 4°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 #** | 15102019 | **Received By** | Amber Confer |
| **Client Name** | UMM Shore Regional Health at Ches | **Date Received** | 10/20/2015 01:50:00 PM |
| **Project Name** | CRHC | **Delivered By** | Trans Time Express |
| **Disposal Date** | 11/24/2015 | **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 |

**Documentation**

| | | | |
|---|---|---|---|
| | | Sampler Name | RM, MA |
| 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 6

Total No. of Containers Received 24

**Preservation**

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

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

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

Samples Inspected/Checklist Completed By: Rachel Davis — Date: 10/20/2015

PM Review and Approval: Lynn Jackson — Date: 10/20/2015

# Analytical Report for

## UMM Shore Regional Health at Chestertown

## Certificate of Analysis No.: 15102126

**Project Manager: Ken Hannon**

**Project Name : CRHC**

**Project Location: Chestertown, MD**

**November 2, 2015**

**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.

November 2, 2015

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

Reference: PSS Work Order(s) No: **15102126**
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 **15102126**.

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 November 25, 2015, 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 at Chestertown

## Project Name: CRHC

**Work Order Number(s): 15102126**

The following samples were received under chain of custody by Phase Separation Science (PSS) on 10/21/2015 at 04:00 pm

| Lab Sample Id | Sample Id | Matrix | Date/Time Collected |
|---|---|---|---|
| 15102126-001 | MW20 | GROUND WATER | 10/20/15 12:40 |
| 15102126-002 | MW19 | GROUND WATER | 10/20/15 12:40 |
| 15102126-003 | MW33 | GROUND WATER | 10/20/15 12:45 |
| 15102126-004 | MW34 | GROUND WATER | 10/20/15 12:55 |
| 15102126-005 | MW16 | GROUND WATER | 10/20/15 12:48 |
| 15102126-006 | MW35 | GROUND WATER | 10/20/15 12:58 |
| 15102126-007 | MW48 | GROUND WATER | 10/20/15 13:00 |
| 15102126-008 | MW17 | GROUND WATER | 10/20/15 13:10 |
| 15102126-009 | MW15 | GROUND WATER | 10/20/15 13:10 |
| 15102126-010 | MW50 | GROUND WATER | 10/20/15 13:20 |
| 15102126-011 | MW12 | GROUND WATER | 10/20/15 13:31 |
| 15102126-012 | MW21 | GROUND WATER | 10/20/15 13:31 |
| 15102126-013 | MW11 | GROUND WATER | 10/21/15 08:48 |
| 15102126-014 | MW13 | GROUND WATER | 10/21/15 08:58 |
| 15102126-015 | MW41 | GROUND WATER | 10/21/15 09:07 |
| 15102126-016 | MW9 | GROUND WATER | 10/21/15 09:20 |
| 15102126-017 | MW42 | GROUND WATER | 10/21/15 09:30 |
| 15102126-018 | MW43 | GROUND WATER | 10/21/15 09:42 |
| 15102126-019 | MW40 | GROUND WATER | 10/21/15 10:52 |
| 15102126-020 | MW10R | GROUND WATER | 10/21/15 10:05 |
| 15102126-021 | MW31R | GROUND WATER | 10/21/15 10:18 |
| 15102126-022 | MW32 | GROUND WATER | 10/21/15 10:42 |
| 15102126-023 | MW44 | GROUND WATER | 10/21/15 10:52 |
| 15102126-024 | RW2D | GROUND WATER | 10/21/15 11:25 |
| 15102126-025 | RW3B | GROUND WATER | 10/21/15 11:30 |
| 15102126-026 | RW4 | GROUND WATER | 10/21/15 11:35 |
| 15102126-027 | RW5 | GROUND WATER | 10/21/15 11:40 |
| 15102126-028 | RW6 | GROUND WATER | 10/21/15 11:45 |
| 15102126-029 | MW22 | GROUND WATER | 10/21/15 11:50 |
| 15102126-030 | SYS EFF | GROUND WATER | 10/21/15 12:10 |
| 15102126-031 | MW49 | GROUND WATER | 10/20/15 13:20 |

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

# Sample Summary

## Client Name: UMM Shore Regional Health at Chestertown

## Project Name: CRHC

**Work Order Number(s): 15102126**

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: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW20** **Date/Time Sampled: 10/20/2015 12:40** **PSS Sample ID: 15102126-001**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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) | **0.24** | mg/L | 0.10 | | 1 | 10/22/15 | 10/23/15 02:36 | 1029 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW20** **Date/Time Sampled: 10/20/2015 12:40** **PSS Sample ID: 15102126-001**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/27/15 | 10/27/15 18:23 | 1011 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| Benzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| Chloroform | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW20** **Date/Time Sampled: 10/20/2015 12:40** **PSS Sample ID: 15102126-001**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/27/15 | 10/27/15 18:23 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| 4-Methyl-2-Pentanone | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| Methyl-t-butyl ether | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| Styrene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| Toluene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:23 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW19** **Date/Time Sampled: 10/20/2015 12:40** **PSS Sample ID: 15102126-002**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/22/15 | 10/23/15 03:01 | 1029 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW19** **Date/Time Sampled: 10/20/2015 12:40** **PSS Sample ID: 15102126-002**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/27/15 | 10/27/15 18:58 | 1011 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| Benzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| Chloroform | **1.4** | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW19** **Date/Time Sampled: 10/20/2015 12:40** **PSS Sample ID: 15102126-002**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/27/15 | 10/27/15 18:58 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| 4-Methyl-2-Pentanone | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| Methyl-t-butyl ether | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| Styrene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| Toluene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 18:58 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW33** **Date/Time Sampled: 10/20/2015 12:45** **PSS Sample ID: 15102126-003**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/22/15 | 10/23/15 03:01 | 1029 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW33** **Date/Time Sampled: 10/20/2015 12:45** **PSS Sample ID: 15102126-003**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/27/15 | 10/27/15 19:32 | 1011 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| Benzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| Chloroform | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW33** **Date/Time Sampled: 10/20/2015 12:45** **PSS Sample ID: 15102126-003**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/27/15 | 10/27/15 19:32 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| 4-Methyl-2-Pentanone | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| Methyl-t-butyl ether | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| Styrene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| Toluene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 19:32 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW34** **Date/Time Sampled: 10/20/2015 12:55** **PSS Sample ID: 15102126-004**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/22/15 | 10/23/15 03:26 | 1029 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW34** **Date/Time Sampled: 10/20/2015 12:55** **PSS Sample ID: 15102126-004**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/27/15 | 10/27/15 20:07 | 1011 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| Benzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| Chloroform | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW34** **Date/Time Sampled: 10/20/2015 12:55** **PSS Sample ID: 15102126-004**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/27/15 | 10/27/15 20:07 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| 4-Methyl-2-Pentanone | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| Methyl-t-butyl ether | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| Styrene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| Toluene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 10/27/15 | 10/27/15 20:07 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW16** **Date/Time Sampled: 10/20/2015 12:48** **PSS Sample ID: 15102126-005**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/22/15 | 10/23/15 03:26 | 1029 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW16** **Date/Time Sampled: 10/20/2015 12:48** **PSS Sample ID: 15102126-005**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/29/15 | 10/29/15 11:39 | 1011 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| Benzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| Chloroform | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW16** **Date/Time Sampled: 10/20/2015 12:48** **PSS Sample ID: 15102126-005**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/29/15 | 10/29/15 11:39 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| 4-Methyl-2-Pentanone | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| Methyl-t-butyl ether | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| Styrene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| Toluene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 11:39 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW35** **Date/Time Sampled: 10/20/2015 12:58** **PSS Sample ID: 15102126-006**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/22/15 | 10/23/15 03:51 | 1029 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW35** **Date/Time Sampled: 10/20/2015 12:58** **PSS Sample ID: 15102126-006**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/29/15 | 10/29/15 14:18 | 1011 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| Benzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| Chloroform | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW35** **Date/Time Sampled: 10/20/2015 12:58** **PSS Sample ID: 15102126-006**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/29/15 | 10/29/15 14:18 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| 4-Methyl-2-Pentanone | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| Methyl-t-butyl ether | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| Styrene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| Toluene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:18 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW48** **Date/Time Sampled: 10/20/2015 13:00** **PSS Sample ID: 15102126-007**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/22/15 | 10/23/15 03:51 | 1029 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW48** **Date/Time Sampled: 10/20/2015 13:00** **PSS Sample ID: 15102126-007**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/29/15 | 10/29/15 14:57 | 1011 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| Benzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| Chloroform | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW48** **Date/Time Sampled: 10/20/2015 13:00** **PSS Sample ID: 15102126-007**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/29/15 | 10/29/15 14:57 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| 4-Methyl-2-Pentanone | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| Methyl-t-butyl ether | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| Styrene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| Toluene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 14:57 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW17** **Date/Time Sampled: 10/20/2015 13:10** **PSS Sample ID: 15102126-008**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/22/15 | 10/23/15 04:16 | 1029 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW17** **Date/Time Sampled: 10/20/2015 13:10** **PSS Sample ID: 15102126-008**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/29/15 | 10/29/15 15:37 | 1011 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| Benzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| Chloroform | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW17** **Date/Time Sampled: 10/20/2015 13:10** **PSS Sample ID: 15102126-008**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/29/15 | 10/29/15 15:37 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| 4-Methyl-2-Pentanone | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| Methyl-t-butyl ether | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| Styrene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| Toluene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 15:37 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW15** **Date/Time Sampled: 10/20/2015 13:10** **PSS Sample ID: 15102126-009**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/22/15 | 10/23/15 04:16 | 1029 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW15** **Date/Time Sampled: 10/20/2015 13:10** **PSS Sample ID: 15102126-009**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/29/15 | 10/29/15 16:17 | 1011 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| Benzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| Chloroform | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW15** **Date/Time Sampled: 10/20/2015 13:10** **PSS Sample ID: 15102126-009**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/29/15 | 10/29/15 16:17 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| 4-Methyl-2-Pentanone | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| Methyl-t-butyl ether | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| Styrene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| Toluene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:17 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW50** **Date/Time Sampled: 10/20/2015 13:20** **PSS Sample ID: 15102126-010**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/22/15 | 10/23/15 04:42 | 1029 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW50** **Date/Time Sampled: 10/20/2015 13:20** **PSS Sample ID: 15102126-010**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/29/15 | 10/29/15 16:57 | 1011 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| Benzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| Chloroform | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW50** **Date/Time Sampled: 10/20/2015 13:20** **PSS Sample ID: 15102126-010**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/29/15 | 10/29/15 16:57 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| 4-Methyl-2-Pentanone | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| Methyl-t-butyl ether | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| Styrene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| Toluene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 16:57 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW12** **Date/Time Sampled: 10/20/2015 13:31** **PSS Sample ID: 15102126-011**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/22/15 | 10/23/15 04:42 | 1029 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW12** **Date/Time Sampled: 10/20/2015 13:31** **PSS Sample ID: 15102126-011**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/29/15 | 10/29/15 17:37 | 1011 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| Benzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| Chloroform | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW12** **Date/Time Sampled: 10/20/2015 13:31** **PSS Sample ID: 15102126-011**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/29/15 | 10/29/15 17:37 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| 4-Methyl-2-Pentanone | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| Methyl-t-butyl ether | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| Styrene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| Toluene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 17:37 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW21** **Date/Time Sampled: 10/20/2015 13:31** **PSS Sample ID: 15102126-012**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/22/15 | 10/23/15 05:07 | 1029 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW21** **Date/Time Sampled: 10/20/2015 13:31** **PSS Sample ID: 15102126-012**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/29/15 | 10/29/15 18:17 | 1011 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| Benzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| Chloroform | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW21** **Date/Time Sampled: 10/20/2015 13:31** **PSS Sample ID: 15102126-012**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/29/15 | 10/29/15 18:17 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| 4-Methyl-2-Pentanone | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| Methyl-t-butyl ether | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| Styrene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| Toluene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:17 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW11** **Date/Time Sampled: 10/21/2015 08:48** **PSS Sample ID: 15102126-013**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/22/15 | 10/23/15 05:07 | 1029 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW11** **Date/Time Sampled: 10/21/2015 08:48** **PSS Sample ID: 15102126-013**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/29/15 | 10/29/15 18:56 | 1011 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| Benzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| Chloroform | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW11** **Date/Time Sampled: 10/21/2015 08:48** **PSS Sample ID: 15102126-013**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/29/15 | 10/29/15 18:56 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| 4-Methyl-2-Pentanone | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| Methyl-t-butyl ether | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| Styrene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| Toluene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 18:56 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW13** **Date/Time Sampled: 10/21/2015 08:58** **PSS Sample ID: 15102126-014**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/22/15 | 10/23/15 05:32 | 1029 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW13** **Date/Time Sampled: 10/21/2015 08:58** **PSS Sample ID: 15102126-014**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/29/15 | 10/29/15 19:36 | 1011 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| Benzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| Chloroform | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW13** **Date/Time Sampled: 10/21/2015 08:58** **PSS Sample ID: 15102126-014**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/29/15 | 10/29/15 19:36 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| 4-Methyl-2-Pentanone | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| Methyl-t-butyl ether | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| Styrene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| Toluene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/29/15 19:36 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW41** **Date/Time Sampled: 10/21/2015 09:07** **PSS Sample ID: 15102126-015**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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) | **1.9** | mg/L | 0.10 | | 1 | 10/23/15 | 10/23/15 16:58 | 1029 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW41** **Date/Time Sampled: 10/21/2015 09:07** **PSS Sample ID: 15102126-015**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/29/15 | 10/30/15 00:56 | 1011 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| Benzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| Chloroform | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW41** **Date/Time Sampled: 10/21/2015 09:07** **PSS Sample ID: 15102126-015**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/29/15 | 10/30/15 00:56 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| 4-Methyl-2-Pentanone | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| Methyl-t-butyl ether | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| Styrene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| Toluene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 00:56 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW9** **Date/Time Sampled: 10/21/2015 09:20** **PSS Sample ID: 15102126-016**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/23/15 | 10/23/15 17:23 | 1029 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW9** **Date/Time Sampled: 10/21/2015 09:20** **PSS Sample ID: 15102126-016**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/29/15 | 10/30/15 03:37 | 1011 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| Benzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| Chloroform | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW9** **Date/Time Sampled: 10/21/2015 09:20** **PSS Sample ID: 15102126-016**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/29/15 | 10/30/15 03:37 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| 4-Methyl-2-Pentanone | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| Methyl-t-butyl ether | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| Naphthalene | **2.8** | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| Styrene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| Toluene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 03:37 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW42** **Date/Time Sampled: 10/21/2015 09:30** **PSS Sample ID: 15102126-017**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/23/15 | 10/23/15 17:48 | 1029 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW42** **Date/Time Sampled: 10/21/2015 09:30** **PSS Sample ID: 15102126-017**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/29/15 | 10/30/15 04:17 | 1011 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| Benzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| Chloroform | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW42** **Date/Time Sampled: 10/21/2015 09:30** **PSS Sample ID: 15102126-017**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/29/15 | 10/30/15 04:17 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| 4-Methyl-2-Pentanone | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| Methyl-t-butyl ether | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| Styrene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| Toluene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:17 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW43** **Date/Time Sampled: 10/21/2015 09:42** **PSS Sample ID: 15102126-018**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/23/15 | 10/23/15 18:13 | 1029 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW43** **Date/Time Sampled: 10/21/2015 09:42** **PSS Sample ID: 15102126-018**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/29/15 | 10/30/15 04:57 | 1011 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| Benzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| Chloroform | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW43** **Date/Time Sampled: 10/21/2015 09:42** **PSS Sample ID: 15102126-018**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/29/15 | 10/30/15 04:57 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| 4-Methyl-2-Pentanone | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| Methyl-t-butyl ether | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| Styrene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| Toluene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 04:57 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW40** **Date/Time Sampled: 10/21/2015 10:52** **PSS Sample ID: 15102126-019**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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) | **2.2** | mg/L | 0.10 | | 1 | 10/23/15 | 10/23/15 18:13 | 1029 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW40** **Date/Time Sampled: 10/21/2015 10:52** **PSS Sample ID: 15102126-019**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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

| | Result | Units | RL | Flag | Dil | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| Acetone | **15** | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| Benzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| Chloroform | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW40** **Date/Time Sampled: 10/21/2015 10:52** **PSS Sample ID: 15102126-019**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/29/15 | 10/30/15 05:37 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| 4-Methyl-2-Pentanone | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| Methyl-t-butyl ether | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| Styrene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| Toluene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 05:37 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW10R** **Date/Time Sampled: 10/21/2015 10:05** **PSS Sample ID: 15102126-020**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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) | **0.16** | mg/L | 0.10 | | 1 | 10/23/15 | 10/23/15 18:38 | 1029 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW10R** **Date/Time Sampled: 10/21/2015 10:05** **PSS Sample ID: 15102126-020**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/29/15 | 10/30/15 06:16 | 1011 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| Benzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| Chloroform | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW10R** **Date/Time Sampled: 10/21/2015 10:05** **PSS Sample ID: 15102126-020**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/29/15 | 10/30/15 06:16 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| 4-Methyl-2-Pentanone | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| Methyl-t-butyl ether | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| Styrene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| Toluene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:16 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW31R** **Date/Time Sampled: 10/21/2015 10:18** **PSS Sample ID: 15102126-021**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/23/15 | 10/23/15 18:38 | 1029 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW31R** **Date/Time Sampled: 10/21/2015 10:18** **PSS Sample ID: 15102126-021**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/29/15 | 10/30/15 06:56 | 1011 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| Benzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| Chloroform | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW31R** **Date/Time Sampled: 10/21/2015 10:18** **PSS Sample ID: 15102126-021**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/29/15 | 10/30/15 06:56 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| 4-Methyl-2-Pentanone | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| Methyl-t-butyl ether | **2.4** | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| Styrene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| Toluene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 06:56 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW32** **Date/Time Sampled: 10/21/2015 10:42** **PSS Sample ID: 15102126-022**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/23/15 | 10/23/15 19:03 | 1029 |

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## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW32** **Date/Time Sampled: 10/21/2015 10:42** **PSS Sample ID: 15102126-022**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/29/15 | 10/30/15 07:36 | 1011 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| Benzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| Chloroform | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW32** **Date/Time Sampled: 10/21/2015 10:42** **PSS Sample ID: 15102126-022**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/29/15 | 10/30/15 07:36 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| 4-Methyl-2-Pentanone | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| Methyl-t-butyl ether | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| Styrene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| Toluene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 07:36 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW44** **Date/Time Sampled: 10/21/2015 10:52** **PSS Sample ID: 15102126-023**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/23/15 | 10/23/15 19:03 | 1029 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW44** **Date/Time Sampled: 10/21/2015 10:52** **PSS Sample ID: 15102126-023**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/29/15 | 10/30/15 08:17 | 1011 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| Benzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| Chloroform | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW44** **Date/Time Sampled: 10/21/2015 10:52** **PSS Sample ID: 15102126-023**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/29/15 | 10/30/15 08:17 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| 4-Methyl-2-Pentanone | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| Methyl-t-butyl ether | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| Styrene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| Toluene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 10/29/15 | 10/30/15 08:17 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: RW2D** **Date/Time Sampled: 10/21/2015 11:25** **PSS Sample ID: 15102126-024**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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) | **0.20** | mg/L | 0.11 | | 1 | 10/23/15 | 10/23/15 19:28 | 1029 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: RW2D** **Date/Time Sampled: 10/21/2015 11:25** **PSS Sample ID: 15102126-024**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/30/15 | 10/30/15 12:56 | 1011 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| Benzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| Chloroform | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: RW2D** **Date/Time Sampled: 10/21/2015 11:25** **PSS Sample ID: 15102126-024**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/30/15 | 10/30/15 12:56 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| 4-Methyl-2-Pentanone | ND | ug/L | 5.0 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| Methyl-t-butyl ether | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| Naphthalene | **2.4** | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| Styrene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| Toluene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 12:56 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: RW3B** **Date/Time Sampled: 10/21/2015 11:30** **PSS Sample ID: 15102126-025**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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) | **0.15** | mg/L | 0.11 | | 1 | 10/23/15 | 10/23/15 19:28 | 1029 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: RW3B** **Date/Time Sampled: 10/21/2015 11:30** **PSS Sample ID: 15102126-025**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/30/15 | 10/30/15 16:26 | 1011 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| Benzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| Chloroform | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: RW3B** **Date/Time Sampled: 10/21/2015 11:30** **PSS Sample ID: 15102126-025**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/30/15 | 10/30/15 16:26 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| 4-Methyl-2-Pentanone | ND | ug/L | 5.0 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| Methyl-t-butyl ether | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| Naphthalene | **1.2** | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| Styrene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| Toluene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 16:26 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: RW4** **Date/Time Sampled: 10/21/2015 11:35** **PSS Sample ID: 15102126-026**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/23/15 | 10/23/15 19:53 | 1029 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: RW4** **Date/Time Sampled: 10/21/2015 11:35** **PSS Sample ID: 15102126-026**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/30/15 | 10/30/15 17:06 | 1011 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| Benzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| Chloroform | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: RW4** **Date/Time Sampled: 10/21/2015 11:35** **PSS Sample ID: 15102126-026**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/30/15 | 10/30/15 17:06 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| 4-Methyl-2-Pentanone | ND | ug/L | 5.0 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| Methyl-t-butyl ether | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| Naphthalene | **1.9** | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| Styrene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| Toluene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:06 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: RW5** **Date/Time Sampled: 10/21/2015 11:40** **PSS Sample ID: 15102126-027**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/23/15 | 10/23/15 19:53 | 1029 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: RW5** **Date/Time Sampled: 10/21/2015 11:40** **PSS Sample ID: 15102126-027**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/30/15 | 10/30/15 17:46 | 1011 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| Benzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| Chloroform | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: RW5** **Date/Time Sampled: 10/21/2015 11:40** **PSS Sample ID: 15102126-027**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/30/15 | 10/30/15 17:46 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| 4-Methyl-2-Pentanone | ND | ug/L | 5.0 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| Methyl-t-butyl ether | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| Styrene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| Toluene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 17:46 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: RW6** **Date/Time Sampled: 10/21/2015 11:45** **PSS Sample ID: 15102126-028**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/23/15 | 10/23/15 20:18 | 1029 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: RW6** **Date/Time Sampled: 10/21/2015 11:45** **PSS Sample ID: 15102126-028**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/30/15 | 10/30/15 18:26 | 1011 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| Benzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| Chloroform | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: RW6** **Date/Time Sampled: 10/21/2015 11:45** **PSS Sample ID: 15102126-028**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/30/15 | 10/30/15 18:26 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| 4-Methyl-2-Pentanone | ND | ug/L | 5.0 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| Methyl-t-butyl ether | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| Naphthalene | **1.7** | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| Styrene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| Toluene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 18:26 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW22** **Date/Time Sampled: 10/21/2015 11:50** **PSS Sample ID: 15102126-029**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/23/15 | 10/23/15 20:18 | 1029 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW22** **Date/Time Sampled: 10/21/2015 11:50** **PSS Sample ID: 15102126-029**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/30/15 | 10/30/15 19:06 | 1011 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| Benzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| Chloroform | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW22** **Date/Time Sampled: 10/21/2015 11:50** **PSS Sample ID: 15102126-029**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/30/15 | 10/30/15 19:06 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| 4-Methyl-2-Pentanone | ND | ug/L | 5.0 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| Methyl-t-butyl ether | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| Naphthalene | **1.5** | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| Styrene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| Toluene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:06 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: SYS EFF** **Date/Time Sampled: 10/21/2015 12:10** **PSS Sample ID: 15102126-030**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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) | **0.49** | mg/L | 0.10 | | 1 | 10/23/15 | 10/23/15 20:43 | 1029 |

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 | 10/22/15 | 10/22/15 11:48 | 1035 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: SYS EFF** **Date/Time Sampled: 10/21/2015 12:10** **PSS Sample ID: 15102126-030**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 50 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| tert-Amyl alcohol | ND | ug/L | 100 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| tert-Amyl methyl ether | ND | ug/L | 50 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| tert-Amyl ethyl ether | ND | ug/L | 50 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| Benzene | ND | ug/L | 5.0 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| Bromochloromethane | ND | ug/L | 5.0 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| Bromodichloromethane | ND | ug/L | 5.0 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| Bromoform | ND | ug/L | 25 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| Bromomethane | ND | ug/L | 5.0 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| tert-Butyl alcohol | ND | ug/L | 100 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| 2-Butanone (MEK) | ND | ug/L | 50 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| tert-Butyl ethyl ether | ND | ug/L | 50 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| Carbon Disulfide | ND | ug/L | 50 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| Carbon Tetrachloride | ND | ug/L | 5.0 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| Chlorobenzene | ND | ug/L | 5.0 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| Chloroethane | ND | ug/L | 5.0 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| Chloroform | ND | ug/L | 5.0 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| Chloromethane | ND | ug/L | 5.0 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| Cyclohexane | ND | ug/L | 50 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 50 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| Dibromochloromethane | ND | ug/L | 5.0 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 5.0 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/L | 5.0 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/L | 5.0 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/L | 5.0 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| Dichlorodifluoromethane | ND | ug/L | 5.0 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| 1,1-Dichloroethane | ND | ug/L | 5.0 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| 1,2-Dichloroethane | ND | ug/L | 5.0 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| 1,1-Dichloroethene | ND | ug/L | 5.0 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/L | 5.0 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: SYS EFF** **Date/Time Sampled: 10/21/2015 12:10** **PSS Sample ID: 15102126-030**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 5.0 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/L | 5.0 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/L | 5.0 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/L | 5.0 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| Diisopropyl ether | ND | ug/L | 50 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| Ethylbenzene | ND | ug/L | 5.0 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| 2-Hexanone | ND | ug/L | 50 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| Isopropylbenzene | ND | ug/L | 5.0 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| Methyl Acetate | ND | ug/L | 50 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| Methylcyclohexane | ND | ug/L | 50 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| Methylene Chloride | ND | ug/L | 5.0 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| 4-Methyl-2-Pentanone | ND | ug/L | 25 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| Methyl-t-butyl ether | ND | ug/L | 5.0 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| Naphthalene | ND | ug/L | 5.0 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| Styrene | ND | ug/L | 5.0 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 5.0 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| Tetrachloroethene | ND | ug/L | 5.0 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| Toluene | ND | ug/L | 5.0 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 5.0 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 5.0 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/L | 5.0 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| Trichloroethene | ND | ug/L | 5.0 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/L | 5.0 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| Trichlorofluoromethane | ND | ug/L | 25 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 5.0 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| Vinyl Chloride | ND | ug/L | 5.0 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| m,p-Xylenes | ND | ug/L | 10 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |
| o-Xylene | ND | ug/L | 5.0 | | 5 | 10/30/15 | 10/30/15 13:46 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW49** **Date/Time Sampled: 10/20/2015 13:20** **PSS Sample ID: 15102126-031**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/23/15 | 10/23/15 20:43 | 1029 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW49** **Date/Time Sampled: 10/20/2015 13:20** **PSS Sample ID: 15102126-031**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/30/15 | 10/30/15 19:46 | 1011 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| Benzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| Chloroform | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |

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# PHASE SEPARATION SCIENCE, INC.

## CERTIFICATE OF ANALYSIS

No: 15102126

**UMM Shore Regional Health at Chestertown, Chestertown, MD**

November 2, 2015

Project Name: CRHC
Project Location: Chestertown, MD

**Sample ID: MW49** **Date/Time Sampled: 10/20/2015 13:20** **PSS Sample ID: 15102126-031**
**Matrix: GROUND WATER** **Date/Time Received: 10/21/2015 16:00**

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 | 10/30/15 | 10/30/15 19:46 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| 4-Methyl-2-Pentanone | ND | ug/L | 5.0 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| Methyl-t-butyl ether | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| Styrene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| Toluene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 10/30/15 | 10/30/15 19:46 | 1011 |

# Case Narrative Summary

## Client Name: UMM Shore Regional Health at Chestertown

## Project Name: CRHC

Work Order Number(s): 15102126

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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:**

**TCL Volatiles plus Oxygenates**

**Batch: 127292**

15102126-030. 5X dilution performed to prevent sample foam over during purge.

**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): 15102126**
Report Prepared For: UMM Shore Regional Health at Chestertown,
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** | MW20 | Initial | 15102126-001 | 1029 | W | 57844 | 127106 | 10/20/2015 | 10/22/2015 13:43 | 10/23/2015 02:36 |
| | MW19 | Initial | 15102126-002 | 1029 | W | 57844 | 127106 | 10/20/2015 | 10/22/2015 13:43 | 10/23/2015 03:01 |
| | MW33 | Initial | 15102126-003 | 1029 | W | 57844 | 127106 | 10/20/2015 | 10/22/2015 13:43 | 10/23/2015 03:01 |
| | MW34 | Initial | 15102126-004 | 1029 | W | 57844 | 127106 | 10/20/2015 | 10/22/2015 13:43 | 10/23/2015 03:26 |
| | MW16 | Initial | 15102126-005 | 1029 | W | 57844 | 127106 | 10/20/2015 | 10/22/2015 13:43 | 10/23/2015 03:26 |
| | MW35 | Initial | 15102126-006 | 1029 | W | 57844 | 127106 | 10/20/2015 | 10/22/2015 13:43 | 10/23/2015 03:51 |
| | MW48 | Initial | 15102126-007 | 1029 | W | 57844 | 127106 | 10/20/2015 | 10/22/2015 13:43 | 10/23/2015 03:51 |
| | MW17 | Initial | 15102126-008 | 1029 | W | 57844 | 127106 | 10/20/2015 | 10/22/2015 13:43 | 10/23/2015 04:16 |
| | MW15 | Initial | 15102126-009 | 1029 | W | 57844 | 127106 | 10/20/2015 | 10/22/2015 13:43 | 10/23/2015 04:16 |
| | MW50 | Initial | 15102126-010 | 1029 | W | 57844 | 127106 | 10/20/2015 | 10/22/2015 13:43 | 10/23/2015 04:42 |
| | MW12 | Initial | 15102126-011 | 1029 | W | 57844 | 127106 | 10/20/2015 | 10/22/2015 13:43 | 10/23/2015 04:42 |
| | MW21 | Initial | 15102126-012 | 1029 | W | 57844 | 127106 | 10/20/2015 | 10/22/2015 13:43 | 10/23/2015 05:07 |
| | MW11 | Initial | 15102126-013 | 1029 | W | 57844 | 127106 | 10/21/2015 | 10/22/2015 13:43 | 10/23/2015 05:07 |
| | MW13 | Initial | 15102126-014 | 1029 | W | 57844 | 127106 | 10/21/2015 | 10/22/2015 13:43 | 10/23/2015 05:32 |
| | 57844-1-BKS | BKS | 57844-1-BKS | 1029 | W | 57844 | 127106 | -------- | 10/22/2015 13:43 | 10/23/2015 01:21 |
| | 57844-1-BLK | BLK | 57844-1-BLK | 1029 | W | 57844 | 127106 | -------- | 10/22/2015 13:43 | 10/23/2015 00:56 |
| | 57844-1-BSD | BSD | 57844-1-BSD | 1029 | W | 57844 | 127106 | -------- | 10/22/2015 13:43 | 10/23/2015 01:46 |
| | MW41 | Initial | 15102126-015 | 1029 | W | 57858 | 127148 | 10/21/2015 | 10/23/2015 11:02 | 10/23/2015 16:58 |
| | MW9 | Initial | 15102126-016 | 1029 | W | 57858 | 127148 | 10/21/2015 | 10/23/2015 11:02 | 10/23/2015 17:23 |
| | MW42 | Initial | 15102126-017 | 1029 | W | 57858 | 127148 | 10/21/2015 | 10/23/2015 11:02 | 10/23/2015 17:48 |
| | MW43 | Initial | 15102126-018 | 1029 | W | 57858 | 127148 | 10/21/2015 | 10/23/2015 11:02 | 10/23/2015 18:13 |
| | MW40 | Initial | 15102126-019 | 1029 | W | 57858 | 127148 | 10/21/2015 | 10/23/2015 11:02 | 10/23/2015 18:13 |
| | MW10R | Initial | 15102126-020 | 1029 | W | 57858 | 127148 | 10/21/2015 | 10/23/2015 11:02 | 10/23/2015 18:38 |
| | MW31R | Initial | 15102126-021 | 1029 | W | 57858 | 127148 | 10/21/2015 | 10/23/2015 11:02 | 10/23/2015 18:38 |
| | MW32 | Initial | 15102126-022 | 1029 | W | 57858 | 127148 | 10/21/2015 | 10/23/2015 11:02 | 10/23/2015 19:03 |
| | MW44 | Initial | 15102126-023 | 1029 | W | 57858 | 127148 | 10/21/2015 | 10/23/2015 11:02 | 10/23/2015 19:03 |
| | RW2D | Initial | 15102126-024 | 1029 | W | 57858 | 127148 | 10/21/2015 | 10/23/2015 11:02 | 10/23/2015 19:28 |
| | RW3B | Initial | 15102126-025 | 1029 | W | 57858 | 127148 | 10/21/2015 | 10/23/2015 11:02 | 10/23/2015 19:28 |
| | RW4 | Initial | 15102126-026 | 1029 | W | 57858 | 127148 | 10/21/2015 | 10/23/2015 11:02 | 10/23/2015 19:53 |

# Analytical Data Package Information Summary

**Work Order(s): 15102126**
Report Prepared For: UMM Shore Regional Health at Chestertown,
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** | RW5 | Initial | 15102126-027 | 1029 | W | 57858 | 127148 | 10/21/2015 | 10/23/2015 11:02 | 10/23/2015 19:53 |
| | RW6 | Initial | 15102126-028 | 1029 | W | 57858 | 127148 | 10/21/2015 | 10/23/2015 11:02 | 10/23/2015 20:18 |
| | MW22 | Initial | 15102126-029 | 1029 | W | 57858 | 127148 | 10/21/2015 | 10/23/2015 11:02 | 10/23/2015 20:18 |
| | SYS EFF | Initial | 15102126-030 | 1029 | W | 57858 | 127148 | 10/21/2015 | 10/23/2015 11:02 | 10/23/2015 20:43 |
| | MW49 | Initial | 15102126-031 | 1029 | W | 57858 | 127148 | 10/20/2015 | 10/23/2015 11:02 | 10/23/2015 20:43 |
| | 57858-1-BKS | BKS | 57858-1-BKS | 1029 | W | 57858 | 127148 | -------- | 10/23/2015 11:02 | 10/23/2015 17:23 |
| | 57858-1-BLK | BLK | 57858-1-BLK | 1029 | W | 57858 | 127148 | -------- | 10/23/2015 11:02 | 10/23/2015 16:58 |
| | 57858-1-BSD | BSD | 57858-1-BSD | 1029 | W | 57858 | 127148 | -------- | 10/23/2015 11:02 | 10/23/2015 17:48 |
| **SW-846 8015C** | SYS EFF | Initial | 15102126-030 | 1035 | W | 57854 | 127102 | 10/21/2015 | 10/22/2015 08:38 | 10/22/2015 11:48 |
| | 57854-2-BKS | BKS | 57854-2-BKS | 1035 | W | 57854 | 127102 | -------- | 10/22/2015 08:38 | 10/22/2015 10:55 |
| | 57854-2-BLK | BLK | 57854-2-BLK | 1035 | W | 57854 | 127102 | -------- | 10/22/2015 08:38 | 10/22/2015 10:29 |
| | SYS EFF S | MS | 15102126-030 S | 1035 | W | 57854 | 127102 | 10/21/2015 | 10/22/2015 08:38 | 10/22/2015 12:14 |
| | SYS EFF SD | MSD | 15102126-030 SD | 1035 | W | 57854 | 127102 | 10/21/2015 | 10/22/2015 08:38 | 10/22/2015 12:40 |
| **SW-846 8260 B** | MW20 | Initial | 15102126-001 | 1011 | W | 57909 | 127215 | 10/20/2015 | 10/27/2015 09:14 | 10/27/2015 18:23 |
| | MW19 | Initial | 15102126-002 | 1011 | W | 57909 | 127215 | 10/20/2015 | 10/27/2015 09:14 | 10/27/2015 18:58 |
| | MW33 | Initial | 15102126-003 | 1011 | W | 57909 | 127215 | 10/20/2015 | 10/27/2015 09:14 | 10/27/2015 19:32 |
| | MW34 | Initial | 15102126-004 | 1011 | W | 57909 | 127215 | 10/20/2015 | 10/27/2015 09:14 | 10/27/2015 20:07 |
| | 57909-1-BKS | BKS | 57909-1-BKS | 1011 | W | 57909 | 127215 | -------- | 10/27/2015 09:14 | 10/27/2015 10:49 |
| | 57909-1-BLK | BLK | 57909-1-BLK | 1011 | W | 57909 | 127215 | -------- | 10/27/2015 09:14 | 10/27/2015 12:34 |
| | MW28 S | MS | 15102019-001 S | 1011 | W | 57909 | 127215 | 10/19/2015 | 10/27/2015 09:14 | 10/27/2015 16:38 |
| | MW28 SD | MSD | 15102019-001 SD | 1011 | W | 57909 | 127215 | 10/19/2015 | 10/27/2015 09:14 | 10/27/2015 17:13 |
| | MW16 | Initial | 15102126-005 | 1011 | W | 57943 | 127275 | 10/20/2015 | 10/29/2015 07:38 | 10/29/2015 11:39 |
| | MW35 | Initial | 15102126-006 | 1011 | W | 57943 | 127275 | 10/20/2015 | 10/29/2015 07:38 | 10/29/2015 14:18 |
| | MW48 | Initial | 15102126-007 | 1011 | W | 57943 | 127275 | 10/20/2015 | 10/29/2015 07:38 | 10/29/2015 14:57 |
| | MW17 | Initial | 15102126-008 | 1011 | W | 57943 | 127275 | 10/20/2015 | 10/29/2015 07:38 | 10/29/2015 15:37 |
| | MW15 | Initial | 15102126-009 | 1011 | W | 57943 | 127275 | 10/20/2015 | 10/29/2015 07:38 | 10/29/2015 16:17 |
| | MW50 | Initial | 15102126-010 | 1011 | W | 57943 | 127275 | 10/20/2015 | 10/29/2015 07:38 | 10/29/2015 16:57 |
| | MW12 | Initial | 15102126-011 | 1011 | W | 57943 | 127275 | 10/20/2015 | 10/29/2015 07:38 | 10/29/2015 17:37 |

# Analytical Data Package Information Summary

**Work Order(s): 15102126**
Report Prepared For: UMM Shore Regional Health at Chestertown,
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** | MW21 | Initial | 15102126-012 | 1011 | W | 57943 | 127275 | 10/20/2015 | 10/29/2015 07:38 | 10/29/2015 18:17 |
| | MW11 | Initial | 15102126-013 | 1011 | W | 57943 | 127275 | 10/21/2015 | 10/29/2015 07:38 | 10/29/2015 18:56 |
| | MW13 | Initial | 15102126-014 | 1011 | W | 57943 | 127275 | 10/21/2015 | 10/29/2015 07:38 | 10/29/2015 19:36 |
| | 57943-1-BKS | BKS | 57943-1-BKS | 1011 | W | 57943 | 127275 | -------- | 10/29/2015 07:38 | 10/29/2015 09:30 |
| | 57943-1-BLK | BLK | 57943-1-BLK | 1011 | W | 57943 | 127275 | -------- | 10/29/2015 07:38 | 10/29/2015 10:50 |
| | MW16 S | MS | 15102126-005 S | 1011 | W | 57943 | 127275 | 10/20/2015 | 10/29/2015 07:38 | 10/29/2015 12:18 |
| | MW16 SD | MSD | 15102126-005 SD | 1011 | W | 57943 | 127275 | 10/20/2015 | 10/29/2015 07:38 | 10/29/2015 12:58 |
| | MW41 | Initial | 15102126-015 | 1011 | W | 57944 | 127278 | 10/21/2015 | 10/29/2015 20:56 | 10/30/2015 00:56 |
| | MW9 | Initial | 15102126-016 | 1011 | W | 57944 | 127278 | 10/21/2015 | 10/29/2015 20:56 | 10/30/2015 03:37 |
| | MW42 | Initial | 15102126-017 | 1011 | W | 57944 | 127278 | 10/21/2015 | 10/29/2015 20:56 | 10/30/2015 04:17 |
| | MW43 | Initial | 15102126-018 | 1011 | W | 57944 | 127278 | 10/21/2015 | 10/29/2015 20:56 | 10/30/2015 04:57 |
| | MW40 | Initial | 15102126-019 | 1011 | W | 57944 | 127278 | 10/21/2015 | 10/29/2015 20:56 | 10/30/2015 05:37 |
| | MW10R | Initial | 15102126-020 | 1011 | W | 57944 | 127278 | 10/21/2015 | 10/29/2015 20:56 | 10/30/2015 06:16 |
| | MW31R | Initial | 15102126-021 | 1011 | W | 57944 | 127278 | 10/21/2015 | 10/29/2015 20:56 | 10/30/2015 06:56 |
| | MW32 | Initial | 15102126-022 | 1011 | W | 57944 | 127278 | 10/21/2015 | 10/29/2015 20:56 | 10/30/2015 07:36 |
| | MW44 | Initial | 15102126-023 | 1011 | W | 57944 | 127278 | 10/21/2015 | 10/29/2015 20:56 | 10/30/2015 08:17 |
| | 57944-1-BKS | BKS | 57944-1-BKS | 1011 | W | 57944 | 127278 | -------- | 10/29/2015 20:56 | 10/29/2015 22:57 |
| | 57944-1-BLK | BLK | 57944-1-BLK | 1011 | W | 57944 | 127278 | -------- | 10/29/2015 20:56 | 10/30/2015 00:16 |
| | MW41 S | MS | 15102126-015 S | 1011 | W | 57944 | 127278 | 10/21/2015 | 10/29/2015 20:56 | 10/30/2015 01:36 |
| | MW41 SD | MSD | 15102126-015 SD | 1011 | W | 57944 | 127278 | 10/21/2015 | 10/29/2015 20:56 | 10/30/2015 02:17 |
| | RW2D | Initial | 15102126-024 | 1011 | W | 57953 | 127292 | 10/21/2015 | 10/30/2015 09:16 | 10/30/2015 12:56 |
| | RW3B | Initial | 15102126-025 | 1011 | W | 57953 | 127292 | 10/21/2015 | 10/30/2015 09:16 | 10/30/2015 16:26 |
| | RW4 | Initial | 15102126-026 | 1011 | W | 57953 | 127292 | 10/21/2015 | 10/30/2015 09:16 | 10/30/2015 17:06 |
| | RW5 | Initial | 15102126-027 | 1011 | W | 57953 | 127292 | 10/21/2015 | 10/30/2015 09:16 | 10/30/2015 17:46 |
| | RW6 | Initial | 15102126-028 | 1011 | W | 57953 | 127292 | 10/21/2015 | 10/30/2015 09:16 | 10/30/2015 18:26 |
| | MW22 | Initial | 15102126-029 | 1011 | W | 57953 | 127292 | 10/21/2015 | 10/30/2015 09:16 | 10/30/2015 19:06 |
| | SYS EFF | Initial | 15102126-030 | 1011 | W | 57953 | 127292 | 10/21/2015 | 10/30/2015 09:16 | 10/30/2015 13:46 |
| | MW49 | Initial | 15102126-031 | 1011 | W | 57953 | 127292 | 10/20/2015 | 10/30/2015 09:16 | 10/30/2015 19:46 |
| | 57953-1-BKS | BKS | 57953-1-BKS | 1011 | W | 57953 | 127292 | -------- | 10/30/2015 09:16 | 10/30/2015 10:49 |

# Analytical Data Package Information Summary

**Work Order(s): 15102126**
Report Prepared For: UMM Shore Regional Health at Chestertown,
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** | 57953-1-BLK | BLK | 57953-1-BLK | 1011 | W | 57953 | 127292 | -------- | 10/30/2015 09:16 | 10/30/2015 12:09 |
| | RW2D S | MS | 15102126-024 S | 1011 | W | 57953 | 127292 | 10/21/2015 | 10/30/2015 09:16 | 10/30/2015 14:26 |
| | RW2 SD | MSD | 15102126-024 SD | 1011 | W | 57953 | 127292 | 10/21/2015 | 10/30/2015 09:16 | 10/30/2015 15:06 |

# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15102126

UMM Shore Regional Health at Chestertown
CRHC

**Analytical Method: SW-846 8015 C** Prep Method: SW3510C
Seq Number: 127106 Matrix: Ground Water Date Prep: 10/22/2015
PSS Sample ID: 15102126-001

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| o-Terphenyl | 89 | | 37-136 | % | 10/23/15 02:36 |

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127215 Matrix: Ground Water Date Prep: 10/27/2015
PSS Sample ID: 15102126-001

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 100 | | 81-133 | % | 10/27/15 18:23 |
| Dibromofluoromethane | 100 | | 84-110 | % | 10/27/15 18:23 |
| Toluene-D8 | 100 | | 94-109 | % | 10/27/15 18:23 |

**Analytical Method: SW-846 8015 C** Prep Method: SW3510C
Seq Number: 127106 Matrix: Ground Water Date Prep: 10/22/2015
PSS Sample ID: 15102126-002

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| o-Terphenyl | 65 | | 37-136 | % | 10/23/15 03:01 |

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127215 Matrix: Ground Water Date Prep: 10/27/2015
PSS Sample ID: 15102126-002

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 98 | | 81-133 | % | 10/27/15 18:58 |
| Dibromofluoromethane | 102 | | 84-110 | % | 10/27/15 18:58 |
| Toluene-D8 | 101 | | 94-109 | % | 10/27/15 18:58 |

**Analytical Method: SW-846 8015 C** Prep Method: SW3510C
Seq Number: 127106 Matrix: Ground Water Date Prep: 10/22/2015
PSS Sample ID: 15102126-003

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| o-Terphenyl | 84 | | 37-136 | % | 10/23/15 03:01 |

# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15102126

UMM Shore Regional Health at Chestertown
CRHC

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127215 Matrix: Ground Water Date Prep: 10/27/2015
PSS Sample ID: 15102126-003

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 100 | | 81-133 | % | 10/27/15 19:32 |
| Dibromofluoromethane | 102 | | 84-110 | % | 10/27/15 19:32 |
| Toluene-D8 | 102 | | 94-109 | % | 10/27/15 19:32 |

**Analytical Method: SW-846 8015 C** Prep Method: SW3510C
Seq Number: 127106 Matrix: Ground Water Date Prep: 10/22/2015
PSS Sample ID: 15102126-004

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| o-Terphenyl | 60 | | 37-136 | % | 10/23/15 03:26 |

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127215 Matrix: Ground Water Date Prep: 10/27/2015
PSS Sample ID: 15102126-004

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 90 | | 81-133 | % | 10/27/15 20:07 |
| Dibromofluoromethane | 101 | | 84-110 | % | 10/27/15 20:07 |
| Toluene-D8 | 99 | | 94-109 | % | 10/27/15 20:07 |

**Analytical Method: SW-846 8015 C** Prep Method: SW3510C
Seq Number: 127106 Matrix: Ground Water Date Prep: 10/22/2015
PSS Sample ID: 15102126-005

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| o-Terphenyl | 80 | | 37-136 | % | 10/23/15 03:26 |

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127275 Matrix: Ground Water Date Prep: 10/29/2015
PSS Sample ID: 15102126-005

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 101 | | 81-133 | % | 10/29/15 11:39 |
| Dibromofluoromethane | 100 | | 84-110 | % | 10/29/15 11:39 |
| Toluene-D8 | 104 | | 94-109 | % | 10/29/15 11:39 |

# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15102126

UMM Shore Regional Health at Chestertown
CRHC

**Analytical Method: SW-846 8015 C** Prep Method: SW3510C
Seq Number: 127106 Matrix: Ground Water Date Prep: 10/22/2015
PSS Sample ID: 15102126-006

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| o-Terphenyl | 61 | | 37-136 | % | 10/23/15 03:51 |

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127275 Matrix: Ground Water Date Prep: 10/29/2015
PSS Sample ID: 15102126-006

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 102 | | 81-133 | % | 10/29/15 14:18 |
| Dibromofluoromethane | 103 | | 84-110 | % | 10/29/15 14:18 |
| Toluene-D8 | 103 | | 94-109 | % | 10/29/15 14:18 |

**Analytical Method: SW-846 8015 C** Prep Method: SW3510C
Seq Number: 127106 Matrix: Ground Water Date Prep: 10/22/2015
PSS Sample ID: 15102126-007

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| o-Terphenyl | 84 | | 37-136 | % | 10/23/15 03:51 |

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127275 Matrix: Ground Water Date Prep: 10/29/2015
PSS Sample ID: 15102126-007

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 101 | | 81-133 | % | 10/29/15 14:57 |
| Dibromofluoromethane | 103 | | 84-110 | % | 10/29/15 14:57 |
| Toluene-D8 | 101 | | 94-109 | % | 10/29/15 14:57 |

**Analytical Method: SW-846 8015 C** Prep Method: SW3510C
Seq Number: 127106 Matrix: Ground Water Date Prep: 10/22/2015
PSS Sample ID: 15102126-008

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| o-Terphenyl | 66 | | 37-136 | % | 10/23/15 04:16 |

# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15102126

UMM Shore Regional Health at Chestertown
CRHC

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127275 Matrix: Ground Water Date Prep: 10/29/2015
PSS Sample ID: 15102126-008

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 101 | | 81-133 | % | 10/29/15 15:37 |
| Dibromofluoromethane | 102 | | 84-110 | % | 10/29/15 15:37 |
| Toluene-D8 | 103 | | 94-109 | % | 10/29/15 15:37 |

**Analytical Method: SW-846 8015 C** Prep Method: SW3510C
Seq Number: 127106 Matrix: Ground Water Date Prep: 10/22/2015
PSS Sample ID: 15102126-009

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| o-Terphenyl | 71 | | 37-136 | % | 10/23/15 04:16 |

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127275 Matrix: Ground Water Date Prep: 10/29/2015
PSS Sample ID: 15102126-009

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 101 | | 81-133 | % | 10/29/15 16:17 |
| Dibromofluoromethane | 103 | | 84-110 | % | 10/29/15 16:17 |
| Toluene-D8 | 103 | | 94-109 | % | 10/29/15 16:17 |

**Analytical Method: SW-846 8015 C** Prep Method: SW3510C
Seq Number: 127106 Matrix: Ground Water Date Prep: 10/22/2015
PSS Sample ID: 15102126-010

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| o-Terphenyl | 55 | | 37-136 | % | 10/23/15 04:42 |

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127275 Matrix: Ground Water Date Prep: 10/29/2015
PSS Sample ID: 15102126-010

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 102 | | 81-133 | % | 10/29/15 16:57 |
| Dibromofluoromethane | 102 | | 84-110 | % | 10/29/15 16:57 |
| Toluene-D8 | 101 | | 94-109 | % | 10/29/15 16:57 |

# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15102126

UMM Shore Regional Health at Chestertown
CRHC

**Analytical Method: SW-846 8015 C** Prep Method: SW3510C
Seq Number: 127106 Matrix: Ground Water Date Prep: 10/22/2015
PSS Sample ID: 15102126-011

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| o-Terphenyl | 73 | | 37-136 | % | 10/23/15 04:42 |

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127275 Matrix: Ground Water Date Prep: 10/29/2015
PSS Sample ID: 15102126-011

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 102 | | 81-133 | % | 10/29/15 17:37 |
| Dibromofluoromethane | 102 | | 84-110 | % | 10/29/15 17:37 |
| Toluene-D8 | 101 | | 94-109 | % | 10/29/15 17:37 |

**Analytical Method: SW-846 8015 C** Prep Method: SW3510C
Seq Number: 127106 Matrix: Ground Water Date Prep: 10/22/2015
PSS Sample ID: 15102126-012

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| o-Terphenyl | 54 | | 37-136 | % | 10/23/15 05:07 |

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127275 Matrix: Ground Water Date Prep: 10/29/2015
PSS Sample ID: 15102126-012

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 99 | | 81-133 | % | 10/29/15 18:17 |
| Dibromofluoromethane | 104 | | 84-110 | % | 10/29/15 18:17 |
| Toluene-D8 | 103 | | 94-109 | % | 10/29/15 18:17 |

**Analytical Method: SW-846 8015 C** Prep Method: SW3510C
Seq Number: 127106 Matrix: Ground Water Date Prep: 10/22/2015
PSS Sample ID: 15102126-013

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| o-Terphenyl | 78 | | 37-136 | % | 10/23/15 05:07 |

# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15102126

UMM Shore Regional Health at Chestertown
CRHC

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127275 Matrix: Ground Water Date Prep: 10/29/2015
PSS Sample ID: 15102126-013

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 101 | | 81-133 | % | 10/29/15 18:56 |
| Dibromofluoromethane | 103 | | 84-110 | % | 10/29/15 18:56 |
| Toluene-D8 | 104 | | 94-109 | % | 10/29/15 18:56 |

**Analytical Method: SW-846 8015 C** Prep Method: SW3510C
Seq Number: 127106 Matrix: Ground Water Date Prep: 10/22/2015
PSS Sample ID: 15102126-014

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| o-Terphenyl | 63 | | 37-136 | % | 10/23/15 05:32 |

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127275 Matrix: Ground Water Date Prep: 10/29/2015
PSS Sample ID: 15102126-014

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 100 | | 81-133 | % | 10/29/15 19:36 |
| Dibromofluoromethane | 103 | | 84-110 | % | 10/29/15 19:36 |
| Toluene-D8 | 104 | | 94-109 | % | 10/29/15 19:36 |

**Analytical Method: SW-846 8015 C** Prep Method: SW3510C
Seq Number: 127148 Matrix: Ground Water Date Prep: 10/23/2015
PSS Sample ID: 15102126-015

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| o-Terphenyl | 90 | | 37-136 | % | 10/23/15 16:58 |

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127278 Matrix: Ground Water Date Prep: 10/29/2015
PSS Sample ID: 15102126-015

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 99 | | 81-133 | % | 10/30/15 00:56 |
| Dibromofluoromethane | 103 | | 84-110 | % | 10/30/15 00:56 |
| Toluene-D8 | 103 | | 94-109 | % | 10/30/15 00:56 |

# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15102126

UMM Shore Regional Health at Chestertown
CRHC

**Analytical Method: SW-846 8015 C** Prep Method: SW3510C
Seq Number: 127148 Matrix: Ground Water Date Prep: 10/23/2015
PSS Sample ID: 15102126-016

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| o-Terphenyl | 79 | | 37-136 | % | 10/23/15 17:23 |

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127278 Matrix: Ground Water Date Prep: 10/29/2015
PSS Sample ID: 15102126-016

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 100 | | 81-133 | % | 10/30/15 03:37 |
| Dibromofluoromethane | 103 | | 84-110 | % | 10/30/15 03:37 |
| Toluene-D8 | 103 | | 94-109 | % | 10/30/15 03:37 |

**Analytical Method: SW-846 8015 C** Prep Method: SW3510C
Seq Number: 127148 Matrix: Ground Water Date Prep: 10/23/2015
PSS Sample ID: 15102126-017

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| o-Terphenyl | 79 | | 37-136 | % | 10/23/15 17:48 |

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127278 Matrix: Ground Water Date Prep: 10/29/2015
PSS Sample ID: 15102126-017

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 100 | | 81-133 | % | 10/30/15 04:17 |
| Dibromofluoromethane | 106 | | 84-110 | % | 10/30/15 04:17 |
| Toluene-D8 | 104 | | 94-109 | % | 10/30/15 04:17 |

**Analytical Method: SW-846 8015 C** Prep Method: SW3510C
Seq Number: 127148 Matrix: Ground Water Date Prep: 10/23/2015
PSS Sample ID: 15102126-018

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| o-Terphenyl | 71 | | 37-136 | % | 10/23/15 18:13 |

# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15102126

UMM Shore Regional Health at Chestertown
CRHC

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127278 Matrix: Ground Water Date Prep: 10/29/2015
PSS Sample ID: 15102126-018

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 101 | | 81-133 | % | 10/30/15 04:57 |
| Dibromofluoromethane | 104 | | 84-110 | % | 10/30/15 04:57 |
| Toluene-D8 | 103 | | 94-109 | % | 10/30/15 04:57 |

**Analytical Method: SW-846 8015 C** Prep Method: SW3510C
Seq Number: 127148 Matrix: Ground Water Date Prep: 10/23/2015
PSS Sample ID: 15102126-019

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| o-Terphenyl | 81 | | 37-136 | % | 10/23/15 18:13 |

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127278 Matrix: Ground Water Date Prep: 10/29/2015
PSS Sample ID: 15102126-019

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 99 | | 81-133 | % | 10/30/15 05:37 |
| Dibromofluoromethane | 105 | | 84-110 | % | 10/30/15 05:37 |
| Toluene-D8 | 104 | | 94-109 | % | 10/30/15 05:37 |

**Analytical Method: SW-846 8015 C** Prep Method: SW3510C
Seq Number: 127148 Matrix: Ground Water Date Prep: 10/23/2015
PSS Sample ID: 15102126-020

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| o-Terphenyl | 60 | | 37-136 | % | 10/23/15 18:38 |

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127278 Matrix: Ground Water Date Prep: 10/29/2015
PSS Sample ID: 15102126-020

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 100 | | 81-133 | % | 10/30/15 06:16 |
| Dibromofluoromethane | 103 | | 84-110 | % | 10/30/15 06:16 |
| Toluene-D8 | 104 | | 94-109 | % | 10/30/15 06:16 |

# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15102126

UMM Shore Regional Health at Chestertown
CRHC

**Analytical Method: SW-846 8015 C** Prep Method: SW3510C
Seq Number: 127148 Matrix: Ground Water Date Prep: 10/23/2015
PSS Sample ID: 15102126-021

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| o-Terphenyl | 89 | | 37-136 | % | 10/23/15 18:38 |

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127278 Matrix: Ground Water Date Prep: 10/29/2015
PSS Sample ID: 15102126-021

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 100 | | 81-133 | % | 10/30/15 06:56 |
| Dibromofluoromethane | 104 | | 84-110 | % | 10/30/15 06:56 |
| Toluene-D8 | 104 | | 94-109 | % | 10/30/15 06:56 |

**Analytical Method: SW-846 8015 C** Prep Method: SW3510C
Seq Number: 127148 Matrix: Ground Water Date Prep: 10/23/2015
PSS Sample ID: 15102126-022

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| o-Terphenyl | 62 | | 37-136 | % | 10/23/15 19:03 |

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127278 Matrix: Ground Water Date Prep: 10/29/2015
PSS Sample ID: 15102126-022

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 100 | | 81-133 | % | 10/30/15 07:36 |
| Dibromofluoromethane | 104 | | 84-110 | % | 10/30/15 07:36 |
| Toluene-D8 | 103 | | 94-109 | % | 10/30/15 07:36 |

**Analytical Method: SW-846 8015 C** Prep Method: SW3510C
Seq Number: 127148 Matrix: Ground Water Date Prep: 10/23/2015
PSS Sample ID: 15102126-023

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| o-Terphenyl | 82 | | 37-136 | % | 10/23/15 19:03 |

# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15102126

UMM Shore Regional Health at Chestertown
CRHC

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127278 Matrix: Ground Water Date Prep: 10/29/2015
PSS Sample ID: 15102126-023

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 100 | | 81-133 | % | 10/30/15 08:17 |
| Dibromofluoromethane | 104 | | 84-110 | % | 10/30/15 08:17 |
| Toluene-D8 | 102 | | 94-109 | % | 10/30/15 08:17 |

**Analytical Method: SW-846 8015 C** Prep Method: SW3510C
Seq Number: 127148 Matrix: Ground Water Date Prep: 10/23/2015
PSS Sample ID: 15102126-024

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| o-Terphenyl | 65 | | 37-136 | % | 10/23/15 19:28 |

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127292 Matrix: Ground Water Date Prep: 10/30/2015
PSS Sample ID: 15102126-024

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 101 | | 81-133 | % | 10/30/15 12:56 |
| Dibromofluoromethane | 103 | | 84-110 | % | 10/30/15 12:56 |
| Toluene-D8 | 105 | | 94-109 | % | 10/30/15 12:56 |

**Analytical Method: SW-846 8015 C** Prep Method: SW3510C
Seq Number: 127148 Matrix: Ground Water Date Prep: 10/23/2015
PSS Sample ID: 15102126-025

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| o-Terphenyl | 80 | | 37-136 | % | 10/23/15 19:28 |

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127292 Matrix: Ground Water Date Prep: 10/30/2015
PSS Sample ID: 15102126-025

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 102 | | 81-133 | % | 10/30/15 16:26 |
| Dibromofluoromethane | 104 | | 84-110 | % | 10/30/15 16:26 |
| Toluene-D8 | 104 | | 94-109 | % | 10/30/15 16:26 |

# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15102126

UMM Shore Regional Health at Chestertown
CRHC

**Analytical Method: SW-846 8015 C** Prep Method: SW3510C
Seq Number: 127148 Matrix: Ground Water Date Prep: 10/23/2015
PSS Sample ID: 15102126-026

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| o-Terphenyl | 64 | | 37-136 | % | 10/23/15 19:53 |

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127292 Matrix: Ground Water Date Prep: 10/30/2015
PSS Sample ID: 15102126-026

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 101 | | 81-133 | % | 10/30/15 17:06 |
| Dibromofluoromethane | 103 | | 84-110 | % | 10/30/15 17:06 |
| Toluene-D8 | 105 | | 94-109 | % | 10/30/15 17:06 |

**Analytical Method: SW-846 8015 C** Prep Method: SW3510C
Seq Number: 127148 Matrix: Ground Water Date Prep: 10/23/2015
PSS Sample ID: 15102126-027

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| o-Terphenyl | 88 | | 37-136 | % | 10/23/15 19:53 |

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127292 Matrix: Ground Water Date Prep: 10/30/2015
PSS Sample ID: 15102126-027

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 100 | | 81-133 | % | 10/30/15 17:46 |
| Dibromofluoromethane | 103 | | 84-110 | % | 10/30/15 17:46 |
| Toluene-D8 | 105 | | 94-109 | % | 10/30/15 17:46 |

**Analytical Method: SW-846 8015 C** Prep Method: SW3510C
Seq Number: 127148 Matrix: Ground Water Date Prep: 10/23/2015
PSS Sample ID: 15102126-028

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| o-Terphenyl | 67 | | 37-136 | % | 10/23/15 20:18 |

# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15102126

UMM Shore Regional Health at Chestertown
CRHC

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127292 Matrix: Ground Water Date Prep: 10/30/2015
PSS Sample ID: 15102126-028

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 99 | | 81-133 | % | 10/30/15 18:26 |
| Dibromofluoromethane | 104 | | 84-110 | % | 10/30/15 18:26 |
| Toluene-D8 | 104 | | 94-109 | % | 10/30/15 18:26 |

**Analytical Method: SW-846 8015 C** Prep Method: SW3510C
Seq Number: 127148 Matrix: Ground Water Date Prep: 10/23/2015
PSS Sample ID: 15102126-029

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| o-Terphenyl | 82 | | 37-136 | % | 10/23/15 20:18 |

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127292 Matrix: Ground Water Date Prep: 10/30/2015
PSS Sample ID: 15102126-029

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 99 | | 81-133 | % | 10/30/15 19:06 |
| Dibromofluoromethane | 103 | | 84-110 | % | 10/30/15 19:06 |
| Toluene-D8 | 103 | | 94-109 | % | 10/30/15 19:06 |

**Analytical Method: SW-846 8015 C** Prep Method: SW3510C
Seq Number: 127148 Matrix: Ground Water Date Prep: 10/23/2015
PSS Sample ID: 15102126-030

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| o-Terphenyl | 68 | | 37-136 | % | 10/23/15 20:43 |

**Analytical Method: SW-846 8015C** Prep Method: SW5030B
Seq Number: 127102 Matrix: Ground Water Date Prep: 10/22/2015
PSS Sample ID: 15102126-030

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| a,a,a-Trifluorotoluene | 68 | | 65-111 | % | 10/22/15 11:48 |

# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15102126

UMM Shore Regional Health at Chestertown
CRHC

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127292 Matrix: Ground Water Date Prep: 10/30/2015
PSS Sample ID: 15102126-030

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 100 | | 81-133 | % | 10/30/15 13:46 |
| Dibromofluoromethane | 101 | | 84-110 | % | 10/30/15 13:46 |
| Toluene-D8 | 104 | | 94-109 | % | 10/30/15 13:46 |

**Analytical Method: SW-846 8015 C** Prep Method: SW3510C
Seq Number: 127148 Matrix: Ground Water Date Prep: 10/23/2015
PSS Sample ID: 15102126-031

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| o-Terphenyl | 82 | | 37-136 | % | 10/23/15 20:43 |

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127292 Matrix: Ground Water Date Prep: 10/30/2015
PSS Sample ID: 15102126-031

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 100 | | 81-133 | % | 10/30/15 19:46 |
| Dibromofluoromethane | 105 | | 84-110 | % | 10/30/15 19:46 |
| Toluene-D8 | 105 | | 94-109 | % | 10/30/15 19:46 |

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 15102126

UMM Shore Regional Health at Chestertown
CRHC

**Analytical Method: SW-846 8015 C** Prep Method: SW3510C
Seq Number: 127106 Matrix: Water Date Prep: 10/22/15
MB Sample Id: 57844-1-BLK LCS Sample Id: 57844-1-BKS LCSD Sample Id: 57844-1-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 | 0.8821 | 88 | 0.8601 | 86 | 61-119 | 3 | 20 | mg/L | 10/23/15 01:21 | |

| Surrogate | MB %Rec | MB Flag | LCS Result | LCS Flag | LCSD Result | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | 60 | | 72 | | 70 | | 37-136 | % | 10/23/15 01:21 |

**Analytical Method: SW-846 8015 C** Prep Method: SW3510C
Seq Number: 127148 Matrix: Water Date Prep: 10/23/15
MB Sample Id: 57858-1-BLK LCS Sample Id: 57858-1-BKS LCSD Sample Id: 57858-1-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 | 0.8549 | 85 | 0.9550 | 96 | 61-119 | 11 | 20 | mg/L | 10/23/15 17:23 | |

| Surrogate | MB %Rec | MB Flag | LCS Result | LCS Flag | LCSD Result | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| o-Terphenyl | 79 | | 73 | | 81 | | 37-136 | % | 10/23/15 17:23 |

**Analytical Method: SW-846 8015C** Prep Method: SW5030B
Seq Number: 127102 Matrix: Water Date Prep: 10/22/15
MB Sample Id: 57854-2-BLK LCS Sample Id: 57854-2-BKS

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | Limits | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|
| TPH-GRO (Gasoline Range Organic: | <100 | 5000 | 3803 | 76 | 61-138 | ug/L | 10/22/15 10:55 | |

| Surrogate | MB %Rec | MB Flag | LCS Result | LCS Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| a,a,a-Trifluorotoluene | 65 | | 70 | | 65-111 | % | 10/22/15 10:55 |

**Analytical Method: SW-846 8015C** Prep Method: SW5030B
Seq Number: 127102 Matrix: Ground Water Date Prep: 10/22/15
Parent Sample Id: 15102126-030 MS Sample Id: 15102126-030 S MSD Sample Id: 15102126-030 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 | 4894 | 98 | 4458 | 89 | 58-136 | 9 | 25 | ug/L | 10/22/15 12:14 | |

| Surrogate | MS Result | MS Flag | MSD Result | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| a,a,a-Trifluorotoluene | 72 | | 66 | | 65-111 | % | 10/22/15 12:14 |

# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15102126

UMM Shore Regional Health at Chestertown
CRHC

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127215 Matrix: Water Date Prep: 10/27/15
MB Sample Id: 57909-1-BLK LCS Sample Id: 57909-1-BKS

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | Limits | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|
| Acetone | <10.00 | 50.00 | 60.76 | 122 | 53-146 | ug/L | 10/27/15 10:49 | |
| tert-Amyl alcohol | <20.00 | 50.00 | 56.50 | 113 | 27-139 | ug/L | 10/27/15 10:49 | |
| tert-Amyl ethyl ether | <10.00 | 50.00 | 51.46 | 103 | 60-121 | ug/L | 10/27/15 10:49 | |
| tert-Amyl methyl ether | <10.00 | 50.00 | 51.62 | 103 | 61-129 | ug/L | 10/27/15 10:49 | |
| Benzene | <1.000 | 50.00 | 50.48 | 101 | 77-122 | ug/L | 10/27/15 10:49 | |
| Bromochloromethane | <1.000 | 50.00 | 51.88 | 104 | 71-122 | ug/L | 10/27/15 10:49 | |
| Bromodichloromethane | <1.000 | 50.00 | 54.14 | 108 | 76-122 | ug/L | 10/27/15 10:49 | |
| Bromoform | <5.000 | 50.00 | 49.47 | 99 | 69-115 | ug/L | 10/27/15 10:49 | |
| Bromomethane | <1.000 | 50.00 | 53.31 | 107 | 40-147 | ug/L | 10/27/15 10:49 | |
| tert-Butyl alcohol | <20.00 | 50.00 | 52.33 | 105 | 15-150 | ug/L | 10/27/15 10:49 | |
| 2-Butanone (MEK) | <10.00 | 50.00 | 50.87 | 102 | 56-133 | ug/L | 10/27/15 10:49 | |
| tert-Butyl ethyl ether | <10.00 | 50.00 | 52.36 | 105 | 62-137 | ug/L | 10/27/15 10:49 | |
| Carbon Disulfide | <10.00 | 50.00 | 51.74 | 103 | 62-134 | ug/L | 10/27/15 10:49 | |
| Carbon Tetrachloride | <1.000 | 50.00 | 52.69 | 105 | 74-127 | ug/L | 10/27/15 10:49 | |
| Chlorobenzene | <1.000 | 50.00 | 50.27 | 101 | 76-116 | ug/L | 10/27/15 10:49 | |
| Chloroethane | <1.000 | 50.00 | 50.82 | 102 | 59-132 | ug/L | 10/27/15 10:49 | |
| Chloroform | <1.000 | 50.00 | 51.52 | 103 | 71-118 | ug/L | 10/27/15 10:49 | |
| Chloromethane | <1.000 | 50.00 | 51.12 | 102 | 62-131 | ug/L | 10/27/15 10:49 | |
| Cyclohexane | <10.00 | 50.00 | 50.74 | 101 | 46-150 | ug/L | 10/27/15 10:49 | |
| 1,2-Dibromo-3-Chloropropane | <10.00 | 50.00 | 51.94 | 104 | 59-135 | ug/L | 10/27/15 10:49 | |
| Dibromochloromethane | <1.000 | 50.00 | 48.08 | 96 | 75-114 | ug/L | 10/27/15 10:49 | |
| 1,2-Dibromoethane (EDB) | <1.000 | 50.00 | 51.83 | 104 | 78-121 | ug/L | 10/27/15 10:49 | |
| 1,2-Dichlorobenzene | <1.000 | 50.00 | 50.57 | 101 | 80-122 | ug/L | 10/27/15 10:49 | |
| 1,3-Dichlorobenzene | <1.000 | 50.00 | 49.64 | 99 | 80-122 | ug/L | 10/27/15 10:49 | |
| 1,4-Dichlorobenzene | <1.000 | 50.00 | 50.73 | 101 | 77-118 | ug/L | 10/27/15 10:49 | |
| Dichlorodifluoromethane | <1.000 | 50.00 | 51.75 | 104 | 54-139 | ug/L | 10/27/15 10:49 | |
| 1,1-Dichloroethane | <1.000 | 50.00 | 51.19 | 102 | 51-136 | ug/L | 10/27/15 10:49 | |
| 1,2-Dichloroethane | <1.000 | 50.00 | 54.02 | 108 | 64-130 | ug/L | 10/27/15 10:49 | |
| 1,1-Dichloroethene | <1.000 | 50.00 | 51.05 | 102 | 59-123 | ug/L | 10/27/15 10:49 | |
| cis-1,2-Dichloroethene | <1.000 | 50.00 | 50.60 | 101 | 77-119 | ug/L | 10/27/15 10:49 | |
| 1,2-Dichloropropane | <1.000 | 50.00 | 50.26 | 101 | 75-125 | ug/L | 10/27/15 10:49 | |
| cis-1,3-Dichloropropene | <1.000 | 50.00 | 53.75 | 108 | 74-123 | ug/L | 10/27/15 10:49 | |
| trans-1,3-Dichloropropene | <1.000 | 50.00 | 55.43 | 111 | 73-116 | ug/L | 10/27/15 10:49 | |
| trans-1,2-Dichloroethene | <1.000 | 50.00 | 50.36 | 101 | 58-134 | ug/L | 10/27/15 10:49 | |
| Diisopropyl ether | <10.00 | 50.00 | 52.43 | 105 | 48-146 | ug/L | 10/27/15 10:49 | |
| Ethylbenzene | <1.000 | 50.00 | 50.59 | 101 | 79-122 | ug/L | 10/27/15 10:49 | |
| 2-Hexanone | <10.00 | 50.00 | 54.24 | 108 | 56-134 | ug/L | 10/27/15 10:49 | |
| Isopropylbenzene | <1.000 | 50.00 | 50.75 | 102 | 80-128 | ug/L | 10/27/15 10:49 | |
| Methyl Acetate | <10.00 | 50.00 | 51.87 | 104 | 47-145 | ug/L | 10/27/15 10:49 | |
| Methylcyclohexane | <10.00 | 50.00 | 50.26 | 101 | 61-155 | ug/L | 10/27/15 10:49 | |
| Methylene Chloride | <1.000 | 50.00 | 49.51 | 99 | 61-126 | ug/L | 10/27/15 10:49 | |
| 4-Methyl-2-Pentanone | <5.000 | 50.00 | 52.11 | 104 | 45-145 | ug/L | 10/27/15 10:49 | |
| Methyl-t-butyl ether | <1.000 | 50.00 | 52.83 | 106 | 30-168 | ug/L | 10/27/15 10:49 | |
| Naphthalene | <1.000 | 50.00 | 53.15 | 106 | 46-154 | ug/L | 10/27/15 10:49 | |
| Styrene | <1.000 | 50.00 | 50.74 | 101 | 73-118 | ug/L | 10/27/15 10:49 | |
| 1,1,2,2-Tetrachloroethane | <1.000 | 50.00 | 53.01 | 106 | 71-126 | ug/L | 10/27/15 10:49 | |
| Tetrachloroethene | <1.000 | 50.00 | 51.29 | 103 | 78-113 | ug/L | 10/27/15 10:49 | |
| Toluene | <1.000 | 50.00 | 50.63 | 101 | 77-123 | ug/L | 10/27/15 10:49 | |
| 1,2,3-Trichlorobenzene | <1.000 | 50.00 | 54.09 | 108 | 66-140 | ug/L | 10/27/15 10:49 | |
| 1,2,4-Trichlorobenzene | <1.000 | 50.00 | 51.20 | 102 | 72-143 | ug/L | 10/27/15 10:49 | |
| 1,1,1-Trichloroethane | <1.000 | 50.00 | 51.30 | 103 | 66-133 | ug/L | 10/27/15 10:49 | |

# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15102126

UMM Shore Regional Health at Chestertown
CRHC

**Analytical Method: SW-846 8260 B**

Prep Method: SW5030B

Seq Number: 127215

Matrix: Water

Date Prep: 10/27/15

MB Sample Id: 57909-1-BLK

LCS Sample Id: 57909-1-BKS

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | Limits | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichloroethane | <1.000 | 50.00 | 53.08 | 106 | 72-128 | ug/L | 10/27/15 10:49 | |
| Trichloroethene | <1.000 | 50.00 | 50.18 | 100 | 72-127 | ug/L | 10/27/15 10:49 | |
| Trichlorofluoromethane | <5.000 | 50.00 | 54.56 | 109 | 45-130 | ug/L | 10/27/15 10:49 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | <1.000 | 50.00 | 52.86 | 106 | 56-126 | ug/L | 10/27/15 10:49 | |
| Vinyl Chloride | <1.000 | 50.00 | 51.20 | 102 | 64-132 | ug/L | 10/27/15 10:49 | |
| m,p-Xylenes | <2.000 | 100 | 100.4 | 100 | 78-119 | ug/L | 10/27/15 10:49 | |
| o-Xylene | <1.000 | 50.00 | 50.26 | 101 | 79-123 | ug/L | 10/27/15 10:49 | |

| Surrogate | MB %Rec | MB Flag | LCS Result | LCS Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 103 | | 103 | | 81-133 | % | 10/27/15 10:49 |
| Dibromofluoromethane | 103 | | 103 | | 84-110 | % | 10/27/15 10:49 |
| Toluene-D8 | 101 | | 100 | | 94-109 | % | 10/27/15 10:49 |

# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15102126

UMM Shore Regional Health at Chestertown
CRHC

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127275 Matrix: Water Date Prep: 10/29/15
MB Sample Id: 57943-1-BLK LCS Sample Id: 57943-1-BKS

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | Limits | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|
| Acetone | <10.00 | 50.00 | 43.67 | 87 | 53-146 | ug/L | 10/29/15 09:30 | |
| tert-Amyl alcohol | <20.00 | 50.00 | 45.50 | 91 | 27-139 | ug/L | 10/29/15 09:30 | |
| tert-Amyl ethyl ether | <10.00 | 50.00 | 52.77 | 106 | 60-121 | ug/L | 10/29/15 09:30 | |
| tert-Amyl methyl ether | <10.00 | 50.00 | 50.83 | 102 | 61-129 | ug/L | 10/29/15 09:30 | |
| Benzene | <1.000 | 50.00 | 50.84 | 102 | 77-122 | ug/L | 10/29/15 09:30 | |
| Bromochloromethane | <1.000 | 50.00 | 48.25 | 97 | 71-122 | ug/L | 10/29/15 09:30 | |
| Bromodichloromethane | <1.000 | 50.00 | 50.36 | 101 | 76-122 | ug/L | 10/29/15 09:30 | |
| Bromoform | <5.000 | 50.00 | 51.35 | 103 | 69-115 | ug/L | 10/29/15 09:30 | |
| Bromomethane | <1.000 | 50.00 | 49.20 | 98 | 40-147 | ug/L | 10/29/15 09:30 | |
| tert-Butyl alcohol | <20.00 | 50.00 | 48.01 | 96 | 15-150 | ug/L | 10/29/15 09:30 | |
| 2-Butanone (MEK) | <10.00 | 50.00 | 43.84 | 88 | 56-133 | ug/L | 10/29/15 09:30 | |
| tert-Butyl ethyl ether | <10.00 | 50.00 | 51.50 | 103 | 62-137 | ug/L | 10/29/15 09:30 | |
| Carbon Disulfide | <10.00 | 50.00 | 51.84 | 104 | 62-134 | ug/L | 10/29/15 09:30 | |
| Carbon Tetrachloride | <1.000 | 50.00 | 50.46 | 101 | 74-127 | ug/L | 10/29/15 09:30 | |
| Chlorobenzene | <1.000 | 50.00 | 50.32 | 101 | 76-116 | ug/L | 10/29/15 09:30 | |
| Chloroethane | <1.000 | 50.00 | 52.11 | 104 | 59-132 | ug/L | 10/29/15 09:30 | |
| Chloroform | <1.000 | 50.00 | 48.24 | 96 | 71-118 | ug/L | 10/29/15 09:30 | |
| Chloromethane | <1.000 | 50.00 | 51.81 | 104 | 62-131 | ug/L | 10/29/15 09:30 | |
| Cyclohexane | <10.00 | 50.00 | 53.86 | 108 | 46-150 | ug/L | 10/29/15 09:30 | |
| 1,2-Dibromo-3-Chloropropane | <10.00 | 50.00 | 51.55 | 103 | 59-135 | ug/L | 10/29/15 09:30 | |
| Dibromochloromethane | <1.000 | 50.00 | 51.81 | 104 | 75-114 | ug/L | 10/29/15 09:30 | |
| 1,2-Dibromoethane (EDB) | <1.000 | 50.00 | 50.47 | 101 | 78-121 | ug/L | 10/29/15 09:30 | |
| 1,2-Dichlorobenzene | <1.000 | 50.00 | 50.30 | 101 | 80-122 | ug/L | 10/29/15 09:30 | |
| 1,3-Dichlorobenzene | <1.000 | 50.00 | 50.20 | 100 | 80-122 | ug/L | 10/29/15 09:30 | |
| 1,4-Dichlorobenzene | <1.000 | 50.00 | 49.60 | 99 | 77-118 | ug/L | 10/29/15 09:30 | |
| Dichlorodifluoromethane | <1.000 | 50.00 | 52.18 | 104 | 54-139 | ug/L | 10/29/15 09:30 | |
| 1,1-Dichloroethane | <1.000 | 50.00 | 47.97 | 96 | 51-136 | ug/L | 10/29/15 09:30 | |
| 1,2-Dichloroethane | <1.000 | 50.00 | 48.41 | 97 | 64-130 | ug/L | 10/29/15 09:30 | |
| 1,1-Dichloroethene | <1.000 | 50.00 | 47.80 | 96 | 59-123 | ug/L | 10/29/15 09:30 | |
| cis-1,2-Dichloroethene | <1.000 | 50.00 | 49.19 | 98 | 77-119 | ug/L | 10/29/15 09:30 | |
| 1,2-Dichloropropane | <1.000 | 50.00 | 50.50 | 101 | 75-125 | ug/L | 10/29/15 09:30 | |
| cis-1,3-Dichloropropene | <1.000 | 50.00 | 53.04 | 106 | 74-123 | ug/L | 10/29/15 09:30 | |
| trans-1,3-Dichloropropene | <1.000 | 50.00 | 53.40 | 107 | 73-116 | ug/L | 10/29/15 09:30 | |
| trans-1,2-Dichloroethene | <1.000 | 50.00 | 49.55 | 99 | 58-134 | ug/L | 10/29/15 09:30 | |
| Diisopropyl ether | <10.00 | 50.00 | 52.13 | 104 | 48-146 | ug/L | 10/29/15 09:30 | |
| Ethylbenzene | <1.000 | 50.00 | 51.38 | 103 | 79-122 | ug/L | 10/29/15 09:30 | |
| 2-Hexanone | <10.00 | 50.00 | 48.67 | 97 | 56-134 | ug/L | 10/29/15 09:30 | |
| Isopropylbenzene | <1.000 | 50.00 | 51.53 | 103 | 80-128 | ug/L | 10/29/15 09:30 | |
| Methyl Acetate | <10.00 | 50.00 | 47.96 | 96 | 47-145 | ug/L | 10/29/15 09:30 | |
| Methylcyclohexane | <10.00 | 50.00 | 53.15 | 106 | 61-155 | ug/L | 10/29/15 09:30 | |
| Methylene Chloride | <1.000 | 50.00 | 51.00 | 102 | 61-126 | ug/L | 10/29/15 09:30 | |
| 4-Methyl-2-Pentanone | <5.000 | 50.00 | 48.50 | 97 | 45-145 | ug/L | 10/29/15 09:30 | |
| Methyl-t-butyl ether | <1.000 | 50.00 | 51.16 | 102 | 30-168 | ug/L | 10/29/15 09:30 | |
| Naphthalene | <1.000 | 50.00 | 46.32 | 93 | 46-154 | ug/L | 10/29/15 09:30 | |
| Styrene | <1.000 | 50.00 | 51.87 | 104 | 73-118 | ug/L | 10/29/15 09:30 | |
| 1,1,2,2-Tetrachloroethane | <1.000 | 50.00 | 50.88 | 102 | 71-126 | ug/L | 10/29/15 09:30 | |
| Tetrachloroethene | <1.000 | 50.00 | 50.46 | 101 | 78-113 | ug/L | 10/29/15 09:30 | |
| Toluene | <1.000 | 50.00 | 51.27 | 103 | 77-123 | ug/L | 10/29/15 09:30 | |
| 1,2,3-Trichlorobenzene | <1.000 | 50.00 | 52.34 | 105 | 66-140 | ug/L | 10/29/15 09:30 | |
| 1,2,4-Trichlorobenzene | <1.000 | 50.00 | 52.34 | 105 | 72-143 | ug/L | 10/29/15 09:30 | |
| 1,1,1-Trichloroethane | <1.000 | 50.00 | 48.93 | 98 | 66-133 | ug/L | 10/29/15 09:30 | |

# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15102126

UMM Shore Regional Health at Chestertown
CRHC

**Analytical Method: SW-846 8260 B**

Prep Method: SW5030B

Seq Number: 127275

Matrix: Water

Date Prep: 10/29/15

MB Sample Id: 57943-1-BLK

LCS Sample Id: 57943-1-BKS

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | Limits | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichloroethane | <1.000 | 50.00 | 50.24 | 100 | 72-128 | ug/L | 10/29/15 09:30 | |
| Trichloroethene | <1.000 | 50.00 | 50.19 | 100 | 72-127 | ug/L | 10/29/15 09:30 | |
| Trichlorofluoromethane | <5.000 | 50.00 | 49.09 | 98 | 45-130 | ug/L | 10/29/15 09:30 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | <1.000 | 50.00 | 49.10 | 98 | 56-126 | ug/L | 10/29/15 09:30 | |
| Vinyl Chloride | <1.000 | 50.00 | 49.49 | 99 | 64-132 | ug/L | 10/29/15 09:30 | |
| m,p-Xylenes | <2.000 | 100 | 103.5 | 104 | 78-119 | ug/L | 10/29/15 09:30 | |
| o-Xylene | <1.000 | 50.00 | 51.75 | 104 | 79-123 | ug/L | 10/29/15 09:30 | |

| Surrogate | MB %Rec | MB Flag | LCS Result | LCS Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 103 | | 100 | | 81-133 | % | 10/29/15 09:30 |
| Dibromofluoromethane | 102 | | 97 | | 84-110 | % | 10/29/15 09:30 |
| Toluene-D8 | 104 | | 100 | | 94-109 | % | 10/29/15 09:30 |

# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15102126

UMM Shore Regional Health at Chestertown
CRHC

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127278 Matrix: Water Date Prep: 10/29/15
MB Sample Id: 57944-1-BLK LCS Sample Id: 57944-1-BKS

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | Limits | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|
| Acetone | <10.00 | 50.00 | 55.98 | 112 | 53-146 | ug/L | 10/29/15 22:57 | |
| tert-Amyl alcohol | <20.00 | 50.00 | 47.95 | 96 | 27-139 | ug/L | 10/29/15 22:57 | |
| tert-Amyl ethyl ether | <10.00 | 50.00 | 48.70 | 97 | 60-121 | ug/L | 10/29/15 22:57 | |
| tert-Amyl methyl ether | <10.00 | 50.00 | 50.54 | 101 | 61-129 | ug/L | 10/29/15 22:57 | |
| Benzene | <1.000 | 50.00 | 53.84 | 108 | 77-122 | ug/L | 10/29/15 22:57 | |
| Bromochloromethane | <1.000 | 50.00 | 52.83 | 106 | 71-122 | ug/L | 10/29/15 22:57 | |
| Bromodichloromethane | <1.000 | 50.00 | 54.86 | 110 | 76-122 | ug/L | 10/29/15 22:57 | |
| Bromoform | <5.000 | 50.00 | 53.70 | 107 | 69-115 | ug/L | 10/29/15 22:57 | |
| Bromomethane | <1.000 | 50.00 | 54.36 | 109 | 40-147 | ug/L | 10/29/15 22:57 | |
| tert-Butyl alcohol | <20.00 | 50.00 | 54.43 | 109 | 15-150 | ug/L | 10/29/15 22:57 | |
| 2-Butanone (MEK) | <10.00 | 50.00 | 51.51 | 103 | 56-133 | ug/L | 10/29/15 22:57 | |
| tert-Butyl ethyl ether | <10.00 | 50.00 | 52.29 | 105 | 62-137 | ug/L | 10/29/15 22:57 | |
| Carbon Disulfide | <10.00 | 50.00 | 54.05 | 108 | 62-134 | ug/L | 10/29/15 22:57 | |
| Carbon Tetrachloride | <1.000 | 50.00 | 53.61 | 107 | 74-127 | ug/L | 10/29/15 22:57 | |
| Chlorobenzene | <1.000 | 50.00 | 53.07 | 106 | 76-116 | ug/L | 10/29/15 22:57 | |
| Chloroethane | <1.000 | 50.00 | 55.08 | 110 | 59-132 | ug/L | 10/29/15 22:57 | |
| Chloroform | <1.000 | 50.00 | 52.85 | 106 | 71-118 | ug/L | 10/29/15 22:57 | |
| Chloromethane | <1.000 | 50.00 | 54.86 | 110 | 62-131 | ug/L | 10/29/15 22:57 | |
| Cyclohexane | <10.00 | 50.00 | 55.15 | 110 | 46-150 | ug/L | 10/29/15 22:57 | |
| 1,2-Dibromo-3-Chloropropane | <10.00 | 50.00 | 51.57 | 103 | 59-135 | ug/L | 10/29/15 22:57 | |
| Dibromochloromethane | <1.000 | 50.00 | 54.99 | 110 | 75-114 | ug/L | 10/29/15 22:57 | |
| 1,2-Dibromoethane (EDB) | <1.000 | 50.00 | 53.02 | 106 | 78-121 | ug/L | 10/29/15 22:57 | |
| 1,2-Dichlorobenzene | <1.000 | 50.00 | 52.51 | 105 | 80-122 | ug/L | 10/29/15 22:57 | |
| 1,3-Dichlorobenzene | <1.000 | 50.00 | 52.35 | 105 | 80-122 | ug/L | 10/29/15 22:57 | |
| 1,4-Dichlorobenzene | <1.000 | 50.00 | 51.63 | 103 | 77-118 | ug/L | 10/29/15 22:57 | |
| Dichlorodifluoromethane | <1.000 | 50.00 | 53.64 | 107 | 54-139 | ug/L | 10/29/15 22:57 | |
| 1,1-Dichloroethane | <1.000 | 50.00 | 51.44 | 103 | 51-136 | ug/L | 10/29/15 22:57 | |
| 1,2-Dichloroethane | <1.000 | 50.00 | 53.13 | 106 | 64-130 | ug/L | 10/29/15 22:57 | |
| 1,1-Dichloroethene | <1.000 | 50.00 | 52.88 | 106 | 59-123 | ug/L | 10/29/15 22:57 | |
| cis-1,2-Dichloroethene | <1.000 | 50.00 | 54.25 | 109 | 77-119 | ug/L | 10/29/15 22:57 | |
| 1,2-Dichloropropane | <1.000 | 50.00 | 54.08 | 108 | 75-125 | ug/L | 10/29/15 22:57 | |
| cis-1,3-Dichloropropene | <1.000 | 50.00 | 52.66 | 105 | 74-123 | ug/L | 10/29/15 22:57 | |
| trans-1,3-Dichloropropene | <1.000 | 50.00 | 51.90 | 104 | 73-116 | ug/L | 10/29/15 22:57 | |
| trans-1,2-Dichloroethene | <1.000 | 50.00 | 52.97 | 106 | 58-134 | ug/L | 10/29/15 22:57 | |
| Diisopropyl ether | <10.00 | 50.00 | 54.76 | 110 | 48-146 | ug/L | 10/29/15 22:57 | |
| Ethylbenzene | <1.000 | 50.00 | 54.32 | 109 | 79-122 | ug/L | 10/29/15 22:57 | |
| 2-Hexanone | <10.00 | 50.00 | 54.49 | 109 | 56-134 | ug/L | 10/29/15 22:57 | |
| Isopropylbenzene | <1.000 | 50.00 | 53.22 | 106 | 80-128 | ug/L | 10/29/15 22:57 | |
| Methyl Acetate | <10.00 | 50.00 | 51.15 | 102 | 47-145 | ug/L | 10/29/15 22:57 | |
| Methylcyclohexane | <10.00 | 50.00 | 54.07 | 108 | 61-155 | ug/L | 10/29/15 22:57 | |
| Methylene Chloride | <1.000 | 50.00 | 50.68 | 101 | 61-126 | ug/L | 10/29/15 22:57 | |
| 4-Methyl-2-Pentanone | <5.000 | 50.00 | 52.04 | 104 | 45-145 | ug/L | 10/29/15 22:57 | |
| Methyl-t-butyl ether | <1.000 | 50.00 | 51.79 | 104 | 30-168 | ug/L | 10/29/15 22:57 | |
| Naphthalene | <1.000 | 50.00 | 48.90 | 98 | 46-154 | ug/L | 10/29/15 22:57 | |
| Styrene | <1.000 | 50.00 | 54.21 | 108 | 73-118 | ug/L | 10/29/15 22:57 | |
| 1,1,2,2-Tetrachloroethane | <1.000 | 50.00 | 51.40 | 103 | 71-126 | ug/L | 10/29/15 22:57 | |
| Tetrachloroethene | <1.000 | 50.00 | 52.86 | 106 | 78-113 | ug/L | 10/29/15 22:57 | |
| Toluene | <1.000 | 50.00 | 53.89 | 108 | 77-123 | ug/L | 10/29/15 22:57 | |
| 1,2,3-Trichlorobenzene | <1.000 | 50.00 | 54.08 | 108 | 66-140 | ug/L | 10/29/15 22:57 | |
| 1,2,4-Trichlorobenzene | <1.000 | 50.00 | 53.34 | 107 | 72-143 | ug/L | 10/29/15 22:57 | |
| 1,1,1-Trichloroethane | <1.000 | 50.00 | 52.36 | 105 | 66-133 | ug/L | 10/29/15 22:57 | |

# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15102126

UMM Shore Regional Health at Chestertown
CRHC

**Analytical Method: SW-846 8260 B**

Prep Method: SW5030B

Seq Number: 127278

Matrix: Water

Date Prep: 10/29/15

MB Sample Id: 57944-1-BLK

LCS Sample Id: 57944-1-BKS

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | Limits | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichloroethane | <1.000 | 50.00 | 53.63 | 107 | 72-128 | ug/L | 10/29/15 22:57 | |
| Trichloroethene | <1.000 | 50.00 | 53.36 | 107 | 72-127 | ug/L | 10/29/15 22:57 | |
| Trichlorofluoromethane | <5.000 | 50.00 | 54.72 | 109 | 45-130 | ug/L | 10/29/15 22:57 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | <1.000 | 50.00 | 52.91 | 106 | 56-126 | ug/L | 10/29/15 22:57 | |
| Vinyl Chloride | <1.000 | 50.00 | 51.04 | 102 | 64-132 | ug/L | 10/29/15 22:57 | |
| m,p-Xylenes | <2.000 | 100 | 107.6 | 108 | 78-119 | ug/L | 10/29/15 22:57 | |
| o-Xylene | <1.000 | 50.00 | 53.80 | 108 | 79-123 | ug/L | 10/29/15 22:57 | |

| Surrogate | MB %Rec | MB Flag | LCS Result | LCS Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 100 | | 98 | | 81-133 | % | 10/29/15 22:57 |
| Dibromofluoromethane | 104 | | 101 | | 84-110 | % | 10/29/15 22:57 |
| Toluene-D8 | 102 | | 100 | | 94-109 | % | 10/29/15 22:57 |



Final 1.000

# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15102126

UMM Shore Regional Health at Chestertown
CRHC

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127292 Matrix: Water Date Prep: 10/30/15
MB Sample Id: 57953-1-BLK LCS Sample Id: 57953-1-BKS

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | Limits | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|
| Acetone | <10.00 | 50.00 | 55.81 | 112 | 53-146 | ug/L | 10/30/15 10:49 | |
| tert-Amyl alcohol | <20.00 | 50.00 | 46.81 | 94 | 27-139 | ug/L | 10/30/15 10:49 | |
| tert-Amyl ethyl ether | <10.00 | 50.00 | 48.79 | 98 | 60-121 | ug/L | 10/30/15 10:49 | |
| tert-Amyl methyl ether | <10.00 | 50.00 | 48.14 | 96 | 61-129 | ug/L | 10/30/15 10:49 | |
| Benzene | <1.000 | 50.00 | 54.73 | 109 | 77-122 | ug/L | 10/30/15 10:49 | |
| Bromochloromethane | <1.000 | 50.00 | 51.10 | 102 | 71-122 | ug/L | 10/30/15 10:49 | |
| Bromodichloromethane | <1.000 | 50.00 | 53.62 | 107 | 76-122 | ug/L | 10/30/15 10:49 | |
| Bromoform | <5.000 | 50.00 | 53.67 | 107 | 69-115 | ug/L | 10/30/15 10:49 | |
| Bromomethane | <1.000 | 50.00 | 54.55 | 109 | 40-147 | ug/L | 10/30/15 10:49 | |
| tert-Butyl alcohol | <20.00 | 50.00 | 56.17 | 112 | 15-150 | ug/L | 10/30/15 10:49 | |
| 2-Butanone (MEK) | <10.00 | 50.00 | 50.66 | 101 | 56-133 | ug/L | 10/30/15 10:49 | |
| tert-Butyl ethyl ether | <10.00 | 50.00 | 50.70 | 101 | 62-137 | ug/L | 10/30/15 10:49 | |
| Carbon Disulfide | <10.00 | 50.00 | 55.75 | 112 | 62-134 | ug/L | 10/30/15 10:49 | |
| Carbon Tetrachloride | <1.000 | 50.00 | 53.75 | 108 | 74-127 | ug/L | 10/30/15 10:49 | |
| Chlorobenzene | <1.000 | 50.00 | 53.34 | 107 | 76-116 | ug/L | 10/30/15 10:49 | |
| Chloroethane | <1.000 | 50.00 | 58.46 | 117 | 59-132 | ug/L | 10/30/15 10:49 | |
| Chloroform | <1.000 | 50.00 | 51.97 | 104 | 71-118 | ug/L | 10/30/15 10:49 | |
| Chloromethane | <1.000 | 50.00 | 57.88 | 116 | 62-131 | ug/L | 10/30/15 10:49 | |
| Cyclohexane | <10.00 | 50.00 | 57.50 | 115 | 46-150 | ug/L | 10/30/15 10:49 | |
| 1,2-Dibromo-3-Chloropropane | <10.00 | 50.00 | 51.56 | 103 | 59-135 | ug/L | 10/30/15 10:49 | |
| Dibromochloromethane | <1.000 | 50.00 | 54.41 | 109 | 75-114 | ug/L | 10/30/15 10:49 | |
| 1,2-Dibromoethane (EDB) | <1.000 | 50.00 | 51.91 | 104 | 78-121 | ug/L | 10/30/15 10:49 | |
| 1,2-Dichlorobenzene | <1.000 | 50.00 | 52.47 | 105 | 80-122 | ug/L | 10/30/15 10:49 | |
| 1,3-Dichlorobenzene | <1.000 | 50.00 | 52.33 | 105 | 80-122 | ug/L | 10/30/15 10:49 | |
| 1,4-Dichlorobenzene | <1.000 | 50.00 | 51.94 | 104 | 77-118 | ug/L | 10/30/15 10:49 | |
| Dichlorodifluoromethane | <1.000 | 50.00 | 54.59 | 109 | 54-139 | ug/L | 10/30/15 10:49 | |
| 1,1-Dichloroethane | <1.000 | 50.00 | 52.22 | 104 | 51-136 | ug/L | 10/30/15 10:49 | |
| 1,2-Dichloroethane | <1.000 | 50.00 | 51.78 | 104 | 64-130 | ug/L | 10/30/15 10:49 | |
| 1,1-Dichloroethene | <1.000 | 50.00 | 54.12 | 108 | 59-123 | ug/L | 10/30/15 10:49 | |
| cis-1,2-Dichloroethene | <1.000 | 50.00 | 53.05 | 106 | 77-119 | ug/L | 10/30/15 10:49 | |
| 1,2-Dichloropropane | <1.000 | 50.00 | 53.56 | 107 | 75-125 | ug/L | 10/30/15 10:49 | |
| cis-1,3-Dichloropropene | <1.000 | 50.00 | 55.21 | 110 | 74-123 | ug/L | 10/30/15 10:49 | |
| trans-1,3-Dichloropropene | <1.000 | 50.00 | 55.72 | 111 | 73-116 | ug/L | 10/30/15 10:49 | |
| trans-1,2-Dichloroethene | <1.000 | 50.00 | 52.60 | 105 | 58-134 | ug/L | 10/30/15 10:49 | |
| Diisopropyl ether | <10.00 | 50.00 | 55.35 | 111 | 48-146 | ug/L | 10/30/15 10:49 | |
| Ethylbenzene | <1.000 | 50.00 | 54.89 | 110 | 79-122 | ug/L | 10/30/15 10:49 | |
| 2-Hexanone | <10.00 | 50.00 | 56.09 | 112 | 56-134 | ug/L | 10/30/15 10:49 | |
| Isopropylbenzene | <1.000 | 50.00 | 54.09 | 108 | 80-128 | ug/L | 10/30/15 10:49 | |
| Methyl Acetate | <10.00 | 50.00 | 53.83 | 108 | 47-145 | ug/L | 10/30/15 10:49 | |
| Methylcyclohexane | <10.00 | 50.00 | 56.19 | 112 | 61-155 | ug/L | 10/30/15 10:49 | |
| Methylene Chloride | <1.000 | 50.00 | 53.65 | 107 | 61-126 | ug/L | 10/30/15 10:49 | |
| 4-Methyl-2-Pentanone | <5.000 | 50.00 | 54.88 | 110 | 45-145 | ug/L | 10/30/15 10:49 | |
| Methyl-t-butyl ether | <1.000 | 50.00 | 51.29 | 103 | 30-168 | ug/L | 10/30/15 10:49 | |
| Naphthalene | <1.000 | 50.00 | 47.79 | 96 | 46-154 | ug/L | 10/30/15 10:49 | |
| Styrene | <1.000 | 50.00 | 54.07 | 108 | 73-118 | ug/L | 10/30/15 10:49 | |
| 1,1,2,2-Tetrachloroethane | <1.000 | 50.00 | 52.55 | 105 | 71-126 | ug/L | 10/30/15 10:49 | |
| Tetrachloroethene | <1.000 | 50.00 | 53.56 | 107 | 78-113 | ug/L | 10/30/15 10:49 | |
| Toluene | <1.000 | 50.00 | 54.23 | 108 | 77-123 | ug/L | 10/30/15 10:49 | |
| 1,2,3-Trichlorobenzene | <1.000 | 50.00 | 53.38 | 107 | 66-140 | ug/L | 10/30/15 10:49 | |
| 1,2,4-Trichlorobenzene | <1.000 | 50.00 | 52.86 | 106 | 72-143 | ug/L | 10/30/15 10:49 | |
| 1,1,1-Trichloroethane | <1.000 | 50.00 | 52.21 | 104 | 66-133 | ug/L | 10/30/15 10:49 | |

# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15102126

UMM Shore Regional Health at Chestertown
CRHC

**Analytical Method: SW-846 8260 B**

Prep Method: SW5030B

Seq Number: 127292

Matrix: Water

Date Prep: 10/30/15

MB Sample Id: 57953-1-BLK

LCS Sample Id: 57953-1-BKS

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | Limits | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichloroethane | <1.000 | 50.00 | 53.03 | 106 | 72-128 | ug/L | 10/30/15 10:49 | |
| Trichloroethene | <1.000 | 50.00 | 53.66 | 107 | 72-127 | ug/L | 10/30/15 10:49 | |
| Trichlorofluoromethane | <5.000 | 50.00 | 56.00 | 112 | 45-130 | ug/L | 10/30/15 10:49 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | <1.000 | 50.00 | 56.19 | 112 | 56-126 | ug/L | 10/30/15 10:49 | |
| Vinyl Chloride | <1.000 | 50.00 | 52.60 | 105 | 64-132 | ug/L | 10/30/15 10:49 | |
| m,p-Xylenes | <2.000 | 100 | 108.8 | 109 | 78-119 | ug/L | 10/30/15 10:49 | |
| o-Xylene | <1.000 | 50.00 | 53.75 | 108 | 79-123 | ug/L | 10/30/15 10:49 | |

| Surrogate | MB %Rec | MB Flag | LCS Result | LCS Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 100 | | 97 | | 81-133 | % | 10/30/15 10:49 |
| Dibromofluoromethane | 104 | | 99 | | 84-110 | % | 10/30/15 10:49 |
| Toluene-D8 | 104 | | 101 | | 94-109 | % | 10/30/15 10:49 |

# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15102126

UMM Shore Regional Health at Chestertown
CRHC

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127275 Matrix: Ground Water Date Prep: 10/29/15
Parent Sample Id: 15102126-005 MS Sample Id: 15102126-005 S MSD Sample Id: 15102126-005 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 | 41.24 | 82 | 44.15 | 88 | 41-161 | 7 | 25 | ug/L | 10/29/15 12:18 | |
| tert-Amyl alcohol | <20.00 | 50.00 | 52.47 | 105 | 55.56 | 111 | 5-149 | 6 | 25 | ug/L | 10/29/15 12:18 | |
| tert-Amyl ethyl ether | <10.00 | 50.00 | 56.55 | 113 | 56.44 | 113 | 48-129 | 0 | 25 | ug/L | 10/29/15 12:18 | |
| tert-Amyl methyl ether | <10.00 | 50.00 | 55.40 | 111 | 56.24 | 112 | 50-139 | 2 | 25 | ug/L | 10/29/15 12:18 | |
| Benzene | <1.000 | 50.00 | 57.89 | 116 | 55.55 | 111 | 75-132 | 4 | 25 | ug/L | 10/29/15 12:18 | |
| Bromochloromethane | <1.000 | 50.00 | 54.98 | 110 | 54.66 | 109 | 67-130 | 1 | 25 | ug/L | 10/29/15 12:18 | |
| Bromodichloromethane | <1.000 | 50.00 | 56.80 | 114 | 55.87 | 112 | 69-134 | 2 | 25 | ug/L | 10/29/15 12:18 | |
| Bromoform | <5.000 | 50.00 | 56.66 | 113 | 57.36 | 115 | 65-115 | 1 | 25 | ug/L | 10/29/15 12:18 | |
| Bromomethane | <1.000 | 50.00 | 56.05 | 112 | 55.50 | 111 | 29-154 | 1 | 25 | ug/L | 10/29/15 12:18 | |
| tert-Butyl alcohol | <20.00 | 50.00 | 51.84 | 104 | 55.81 | 112 | 1-183 | 7 | 25 | ug/L | 10/29/15 12:18 | |
| 2-Butanone (MEK) | <10.00 | 50.00 | 41.95 | 84 | 45.64 | 91 | 47-140 | 8 | 25 | ug/L | 10/29/15 12:18 | |
| tert-Butyl ethyl ether | <10.00 | 50.00 | 56.25 | 113 | 56.63 | 113 | 55-141 | 1 | 25 | ug/L | 10/29/15 12:18 | |
| Carbon Disulfide | <10.00 | 50.00 | 59.08 | 118 | 56.41 | 113 | 59-146 | 5 | 25 | ug/L | 10/29/15 12:18 | |
| Carbon Tetrachloride | <1.000 | 50.00 | 57.98 | 116 | 54.76 | 110 | 74-136 | 6 | 25 | ug/L | 10/29/15 12:18 | |
| Chlorobenzene | <1.000 | 50.00 | 56.46 | 113 | 54.04 | 108 | 78-115 | 4 | 25 | ug/L | 10/29/15 12:18 | |
| Chloroethane | <1.000 | 50.00 | 55.52 | 111 | 54.81 | 110 | 40-150 | 1 | 25 | ug/L | 10/29/15 12:18 | |
| Chloroform | <1.000 | 50.00 | 55.21 | 110 | 54.10 | 108 | 67-130 | 2 | 25 | ug/L | 10/29/15 12:18 | |
| Chloromethane | <1.000 | 50.00 | 52.21 | 104 | 53.37 | 107 | 59-144 | 2 | 25 | ug/L | 10/29/15 12:18 | |
| Cyclohexane | <10.00 | 50.00 | 60.88 | 122 | 56.86 | 114 | 34-161 | 7 | 25 | ug/L | 10/29/15 12:18 | |
| 1,2-Dibromo-3-Chloropropane | <10.00 | 50.00 | 53.99 | 108 | 57.97 | 116 | 45-125 | 7 | 25 | ug/L | 10/29/15 12:18 | |
| Dibromochloromethane | <1.000 | 50.00 | 57.90 | 116 | 57.65 | 115 | 73-114 | 0 | 25 | ug/L | 10/29/15 12:18 | X |
| 1,2-Dibromoethane (EDB) | <1.000 | 50.00 | 55.53 | 111 | 55.56 | 111 | 72-126 | 0 | 25 | ug/L | 10/29/15 12:18 | |
| 1,2-Dichlorobenzene | <1.000 | 50.00 | 55.28 | 111 | 54.71 | 109 | 73-117 | 1 | 25 | ug/L | 10/29/15 12:18 | |
| 1,3-Dichlorobenzene | <1.000 | 50.00 | 55.10 | 110 | 53.75 | 108 | 73-117 | 2 | 25 | ug/L | 10/29/15 12:18 | |
| 1,4-Dichlorobenzene | <1.000 | 50.00 | 54.46 | 109 | 53.42 | 107 | 72-111 | 2 | 25 | ug/L | 10/29/15 12:18 | |
| Dichlorodifluoromethane | <1.000 | 50.00 | 56.71 | 113 | 55.95 | 112 | 47-159 | 1 | 25 | ug/L | 10/29/15 12:18 | |
| 1,1-Dichloroethane | <1.000 | 50.00 | 55.21 | 110 | 53.80 | 108 | 44-152 | 3 | 25 | ug/L | 10/29/15 12:18 | |
| 1,2-Dichloroethane | <1.000 | 50.00 | 54.61 | 109 | 55.08 | 110 | 60-142 | 1 | 25 | ug/L | 10/29/15 12:18 | |
| 1,1-Dichloroethene | <1.000 | 50.00 | 54.81 | 110 | 52.21 | 104 | 50-136 | 5 | 25 | ug/L | 10/29/15 12:18 | |
| cis-1,2-Dichloroethene | <1.000 | 50.00 | 55.74 | 111 | 56.03 | 112 | 76-127 | 1 | 25 | ug/L | 10/29/15 12:18 | |
| 1,2-Dichloropropane | <1.000 | 50.00 | 56.69 | 113 | 55.57 | 111 | 70-139 | 2 | 25 | ug/L | 10/29/15 12:18 | |
| cis-1,3-Dichloropropene | <1.000 | 50.00 | 59.22 | 118 | 57.76 | 116 | 64-127 | 2 | 25 | ug/L | 10/29/15 12:18 | |
| trans-1,3-Dichloropropene | <1.000 | 50.00 | 59.01 | 118 | 58.72 | 117 | 62-123 | 0 | 25 | ug/L | 10/29/15 12:18 | |
| trans-1,2-Dichloroethene | <1.000 | 50.00 | 55.98 | 112 | 54.14 | 108 | 54-144 | 3 | 25 | ug/L | 10/29/15 12:18 | |
| Diisopropyl ether | <10.00 | 50.00 | 57.51 | 115 | 57.18 | 114 | 49-150 | 1 | 25 | ug/L | 10/29/15 12:18 | |
| Ethylbenzene | <1.000 | 50.00 | 57.70 | 115 | 54.97 | 110 | 74-129 | 5 | 25 | ug/L | 10/29/15 12:18 | |
| 2-Hexanone | <10.00 | 50.00 | 46.17 | 92 | 48.68 | 97 | 50-130 | 5 | 25 | ug/L | 10/29/15 12:18 | |
| Isopropylbenzene | <1.000 | 50.00 | 56.97 | 114 | 54.61 | 109 | 72-130 | 4 | 25 | ug/L | 10/29/15 12:18 | |
| Methyl Acetate | <10.00 | 50.00 | 51.48 | 103 | 55.54 | 111 | 37-143 | 8 | 25 | ug/L | 10/29/15 12:18 | |
| Methylcyclohexane | <10.00 | 50.00 | 60.14 | 120 | 56.70 | 113 | 55-148 | 6 | 25 | ug/L | 10/29/15 12:18 | |
| Methylene Chloride | <1.000 | 50.00 | 55.48 | 111 | 55.16 | 110 | 56-137 | 1 | 25 | ug/L | 10/29/15 12:18 | |
| 4-Methyl-2-Pentanone | <5.000 | 50.00 | 45.69 | 91 | 46.44 | 93 | 44-133 | 2 | 25 | ug/L | 10/29/15 12:18 | |
| Methyl-t-butyl ether | <1.000 | 50.00 | 55.27 | 111 | 57.26 | 115 | 22-182 | 4 | 25 | ug/L | 10/29/15 12:18 | |
| Naphthalene | <1.000 | 50.00 | 50.22 | 100 | 52.96 | 106 | 7-137 | 5 | 25 | ug/L | 10/29/15 12:18 | |
| Styrene | <1.000 | 50.00 | 57.44 | 115 | 55.96 | 112 | 67-121 | 3 | 25 | ug/L | 10/29/15 12:18 | |
| 1,1,2,2-Tetrachloroethane | <1.000 | 50.00 | 54.70 | 109 | 56.41 | 113 | 68-127 | 3 | 25 | ug/L | 10/29/15 12:18 | |
| Tetrachloroethene | <1.000 | 50.00 | 56.47 | 113 | 54.20 | 108 | 69-126 | 4 | 25 | ug/L | 10/29/15 12:18 | |
| Toluene | <1.000 | 50.00 | 57.39 | 115 | 55.18 | 110 | 74-132 | 4 | 25 | ug/L | 10/29/15 12:18 | |
| 1,2,3-Trichlorobenzene | <1.000 | 50.00 | 55.62 | 111 | 56.69 | 113 | 9-139 | 2 | 25 | ug/L | 10/29/15 12:18 | |
| 1,2,4-Trichlorobenzene | <1.000 | 50.00 | 56.53 | 113 | 56.24 | 112 | 31-135 | 1 | 25 | ug/L | 10/29/15 12:18 | |
| 1,1,1-Trichloroethane | <1.000 | 50.00 | 56.35 | 113 | 53.33 | 107 | 70-138 | 6 | 25 | ug/L | 10/29/15 12:18 | |

# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15102126

UMM Shore Regional Health at Chestertown
CRHC

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

Seq Number: 127275 Matrix: Ground Water Date Prep: 10/29/15

Parent Sample Id: 15102126-005 MS Sample Id: 15102126-005 S MSD Sample Id: 15102126-005 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 | 56.18 | 112 | 56.20 | 112 | 65-143 | 0 | 25 | ug/L | 10/29/15 12:18 | |
| Trichloroethene | <1.000 | 50.00 | 56.68 | 113 | 53.73 | 107 | 67-139 | 5 | 25 | ug/L | 10/29/15 12:18 | |
| Trichlorofluoromethane | <5.000 | 50.00 | 57.50 | 115 | 54.37 | 109 | 37-147 | 6 | 25 | ug/L | 10/29/15 12:18 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | <1.000 | 50.00 | 57.06 | 114 | 53.41 | 107 | 47-139 | 7 | 25 | ug/L | 10/29/15 12:18 | |
| Vinyl Chloride | <1.000 | 50.00 | 52.47 | 105 | 50.78 | 102 | 60-146 | 3 | 25 | ug/L | 10/29/15 12:18 | |
| m,p-Xylenes | <2.000 | 100 | 115.1 | 115 | 109.5 | 110 | 78-119 | 5 | 25 | ug/L | 10/29/15 12:18 | |
| o-Xylene | <1.000 | 50.00 | 56.82 | 114 | 55.42 | 111 | 80-123 | 2 | 25 | ug/L | 10/29/15 12:18 | |

| Surrogate | MS Result | MS Flag | MSD Result | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 99 | | 99 | | 81-133 | % | 10/29/15 12:18 |
| Dibromofluoromethane | 99 | | 100 | | 84-110 | % | 10/29/15 12:18 |
| Toluene-D8 | 101 | | 100 | | 94-109 | % | 10/29/15 12:18 |

# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15102126

UMM Shore Regional Health at Chestertown
CRHC

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127278 Matrix: Ground Water Date Prep: 10/29/15
Parent Sample Id: 15102126-015 MS Sample Id: 15102126-015 S MSD Sample Id: 15102126-015 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 | 73.76 | 148 | 67.74 | 135 | 41-161 | 9 | 25 | ug/L | 10/30/15 01:36 | |
| tert-Amyl alcohol | <20.00 | 50.00 | 51.10 | 102 | 50.30 | 101 | 5-149 | 2 | 25 | ug/L | 10/30/15 01:36 | |
| tert-Amyl ethyl ether | <10.00 | 50.00 | 47.37 | 95 | 48.75 | 98 | 48-129 | 3 | 25 | ug/L | 10/30/15 01:36 | |
| tert-Amyl methyl ether | <10.00 | 50.00 | 49.17 | 98 | 49.49 | 99 | 50-139 | 1 | 25 | ug/L | 10/30/15 01:36 | |
| Benzene | <1.000 | 50.00 | 52.79 | 106 | 54.46 | 109 | 75-132 | 3 | 25 | ug/L | 10/30/15 01:36 | |
| Bromochloromethane | <1.000 | 50.00 | 52.45 | 105 | 52.05 | 104 | 67-130 | 1 | 25 | ug/L | 10/30/15 01:36 | |
| Bromodichloromethane | <1.000 | 50.00 | 53.11 | 106 | 54.15 | 108 | 69-134 | 2 | 25 | ug/L | 10/30/15 01:36 | |
| Bromoform | <5.000 | 50.00 | 53.80 | 108 | 53.35 | 107 | 65-115 | 1 | 25 | ug/L | 10/30/15 01:36 | |
| Bromomethane | <1.000 | 50.00 | 49.43 | 99 | 56.45 | 113 | 29-154 | 13 | 25 | ug/L | 10/30/15 01:36 | |
| tert-Butyl alcohol | <20.00 | 50.00 | 55.16 | 110 | 56.25 | 113 | 1-183 | 2 | 25 | ug/L | 10/30/15 01:36 | |
| 2-Butanone (MEK) | <10.00 | 50.00 | 55.63 | 111 | 52.24 | 104 | 47-140 | 6 | 25 | ug/L | 10/30/15 01:36 | |
| tert-Butyl ethyl ether | <10.00 | 50.00 | 49.65 | 99 | 51.70 | 103 | 55-141 | 4 | 25 | ug/L | 10/30/15 01:36 | |
| Carbon Disulfide | <10.00 | 50.00 | 54.60 | 109 | 55.33 | 111 | 59-146 | 1 | 25 | ug/L | 10/30/15 01:36 | |
| Carbon Tetrachloride | <1.000 | 50.00 | 53.31 | 107 | 54.74 | 109 | 74-136 | 3 | 25 | ug/L | 10/30/15 01:36 | |
| Chlorobenzene | <1.000 | 50.00 | 50.89 | 102 | 51.85 | 104 | 78-115 | 2 | 25 | ug/L | 10/30/15 01:36 | |
| Chloroethane | <1.000 | 50.00 | 52.35 | 105 | 58.36 | 117 | 40-150 | 11 | 25 | ug/L | 10/30/15 01:36 | |
| Chloroform | <1.000 | 50.00 | 51.50 | 103 | 52.93 | 106 | 67-130 | 3 | 25 | ug/L | 10/30/15 01:36 | |
| Chloromethane | <1.000 | 50.00 | 47.31 | 95 | 55.13 | 110 | 59-144 | 15 | 25 | ug/L | 10/30/15 01:36 | |
| Cyclohexane | <10.00 | 50.00 | 54.65 | 109 | 54.84 | 110 | 34-161 | 0 | 25 | ug/L | 10/30/15 01:36 | |
| 1,2-Dibromo-3-Chloropropane | <10.00 | 50.00 | 53.44 | 107 | 50.95 | 102 | 45-125 | 5 | 25 | ug/L | 10/30/15 01:36 | |
| Dibromochloromethane | <1.000 | 50.00 | 53.64 | 107 | 53.86 | 108 | 73-114 | 0 | 25 | ug/L | 10/30/15 01:36 | |
| 1,2-Dibromoethane (EDB) | <1.000 | 50.00 | 52.56 | 105 | 51.88 | 104 | 72-126 | 1 | 25 | ug/L | 10/30/15 01:36 | |
| 1,2-Dichlorobenzene | <1.000 | 50.00 | 49.97 | 100 | 50.65 | 101 | 73-117 | 1 | 25 | ug/L | 10/30/15 01:36 | |
| 1,3-Dichlorobenzene | <1.000 | 50.00 | 49.12 | 98 | 50.54 | 101 | 73-117 | 3 | 25 | ug/L | 10/30/15 01:36 | |
| 1,4-Dichlorobenzene | <1.000 | 50.00 | 48.68 | 97 | 49.62 | 99 | 72-111 | 2 | 25 | ug/L | 10/30/15 01:36 | |
| Dichlorodifluoromethane | <1.000 | 50.00 | 50.88 | 102 | 54.62 | 109 | 47-159 | 7 | 25 | ug/L | 10/30/15 01:36 | |
| 1,1-Dichloroethane | <1.000 | 50.00 | 51.97 | 104 | 52.70 | 105 | 44-152 | 1 | 25 | ug/L | 10/30/15 01:36 | |
| 1,2-Dichloroethane | <1.000 | 50.00 | 52.89 | 106 | 52.90 | 106 | 60-142 | 0 | 25 | ug/L | 10/30/15 01:36 | |
| 1,1-Dichloroethene | <1.000 | 50.00 | 52.60 | 105 | 54.45 | 109 | 50-136 | 3 | 25 | ug/L | 10/30/15 01:36 | |
| cis-1,2-Dichloroethene | <1.000 | 50.00 | 53.24 | 106 | 53.50 | 107 | 76-127 | 0 | 25 | ug/L | 10/30/15 01:36 | |
| 1,2-Dichloropropane | <1.000 | 50.00 | 53.20 | 106 | 53.83 | 108 | 70-139 | 1 | 25 | ug/L | 10/30/15 01:36 | |
| cis-1,3-Dichloropropene | <1.000 | 50.00 | 50.15 | 100 | 51.42 | 103 | 64-127 | 3 | 25 | ug/L | 10/30/15 01:36 | |
| trans-1,3-Dichloropropene | <1.000 | 50.00 | 50.55 | 101 | 51.19 | 102 | 62-123 | 1 | 25 | ug/L | 10/30/15 01:36 | |
| trans-1,2-Dichloroethene | <1.000 | 50.00 | 52.64 | 105 | 53.78 | 108 | 54-144 | 2 | 25 | ug/L | 10/30/15 01:36 | |
| Diisopropyl ether | <10.00 | 50.00 | 52.95 | 106 | 54.92 | 110 | 49-150 | 4 | 25 | ug/L | 10/30/15 01:36 | |
| Ethylbenzene | <1.000 | 50.00 | 52.16 | 104 | 53.04 | 106 | 74-129 | 2 | 25 | ug/L | 10/30/15 01:36 | |
| 2-Hexanone | <10.00 | 50.00 | 59.41 | 119 | 57.51 | 115 | 50-130 | 3 | 25 | ug/L | 10/30/15 01:36 | |
| Isopropylbenzene | <1.000 | 50.00 | 51.19 | 102 | 52.09 | 104 | 72-130 | 2 | 25 | ug/L | 10/30/15 01:36 | |
| Methyl Acetate | <10.00 | 50.00 | 53.34 | 107 | 46.55 | 93 | 37-143 | 14 | 25 | ug/L | 10/30/15 01:36 | |
| Methylcyclohexane | <10.00 | 50.00 | 50.46 | 101 | 51.56 | 103 | 55-148 | 2 | 25 | ug/L | 10/30/15 01:36 | |
| Methylene Chloride | <1.000 | 50.00 | 50.24 | 100 | 50.75 | 102 | 56-137 | 1 | 25 | ug/L | 10/30/15 01:36 | |
| 4-Methyl-2-Pentanone | <5.000 | 50.00 | 56.87 | 114 | 52.26 | 105 | 44-133 | 8 | 25 | ug/L | 10/30/15 01:36 | |
| Methyl-t-butyl ether | <1.000 | 50.00 | 52.18 | 104 | 52.41 | 105 | 22-182 | 0 | 25 | ug/L | 10/30/15 01:36 | |
| Naphthalene | <1.000 | 50.00 | 49.42 | 99 | 50.01 | 100 | 7-137 | 1 | 25 | ug/L | 10/30/15 01:36 | |
| Styrene | <1.000 | 50.00 | 51.72 | 103 | 51.66 | 103 | 67-121 | 0 | 25 | ug/L | 10/30/15 01:36 | |
| 1,1,2,2-Tetrachloroethane | <1.000 | 50.00 | 52.64 | 105 | 51.39 | 103 | 68-127 | 2 | 25 | ug/L | 10/30/15 01:36 | |
| Tetrachloroethene | <1.000 | 50.00 | 50.83 | 102 | 52.10 | 104 | 69-126 | 2 | 25 | ug/L | 10/30/15 01:36 | |
| Toluene | <1.000 | 50.00 | 52.73 | 105 | 53.73 | 107 | 74-132 | 2 | 25 | ug/L | 10/30/15 01:36 | |
| 1,2,3-Trichlorobenzene | <1.000 | 50.00 | 50.38 | 101 | 51.82 | 104 | 9-139 | 3 | 25 | ug/L | 10/30/15 01:36 | |
| 1,2,4-Trichlorobenzene | <1.000 | 50.00 | 48.34 | 97 | 50.21 | 100 | 31-135 | 4 | 25 | ug/L | 10/30/15 01:36 | |
| 1,1,1-Trichloroethane | <1.000 | 50.00 | 51.73 | 103 | 53.18 | 106 | 70-138 | 3 | 25 | ug/L | 10/30/15 01:36 | |

# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15102126

UMM Shore Regional Health at Chestertown
CRHC

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

Seq Number: 127278 Matrix: Ground Water Date Prep: 10/29/15

Parent Sample Id: 15102126-015 MS Sample Id: 15102126-015 S MSD Sample Id: 15102126-015 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 | 54.04 | 108 | 52.72 | 105 | 65-143 | 2 | 25 | ug/L | 10/30/15 01:36 | |
| Trichloroethene | <1.000 | 50.00 | 52.65 | 105 | 53.65 | 107 | 67-139 | 2 | 25 | ug/L | 10/30/15 01:36 | |
| Trichlorofluoromethane | <5.000 | 50.00 | 56.15 | 112 | 57.02 | 114 | 37-147 | 2 | 25 | ug/L | 10/30/15 01:36 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | <1.000 | 50.00 | 52.76 | 106 | 53.04 | 106 | 47-139 | 1 | 25 | ug/L | 10/30/15 01:36 | |
| Vinyl Chloride | <1.000 | 50.00 | 47.74 | 95 | 51.47 | 103 | 60-146 | 8 | 25 | ug/L | 10/30/15 01:36 | |
| m,p-Xylenes | <2.000 | 100 | 101.6 | 102 | 104.3 | 104 | 78-119 | 3 | 25 | ug/L | 10/30/15 01:36 | |
| o-Xylene | <1.000 | 50.00 | 51.57 | 103 | 52.22 | 104 | 80-123 | 1 | 25 | ug/L | 10/30/15 01:36 | |

| Surrogate | MS Result | MS Flag | MSD Result | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 96 | | 97 | | 81-133 | % | 10/30/15 01:36 |
| Dibromofluoromethane | 103 | | 101 | | 84-110 | % | 10/30/15 01:36 |
| Toluene-D8 | 102 | | 101 | | 94-109 | % | 10/30/15 01:36 |

# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15102126

UMM Shore Regional Health at Chestertown
CRHC

**Analytical Method: SW-846 8260 B** Prep Method: SW5030B
Seq Number: 127292 Matrix: Ground Water Date Prep: 10/30/15
Parent Sample Id: 15102126-024 MS Sample Id: 15102126-024 S MSD Sample Id: 15102126-024 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 | 46.31 | 93 | 53.34 | 107 | 41-161 | 14 | 25 | ug/L | 10/30/15 14:26 | |
| tert-Amyl alcohol | <20.00 | 50.00 | 42.81 | 86 | 47.28 | 95 | 5-149 | 10 | 25 | ug/L | 10/30/15 14:26 | |
| tert-Amyl ethyl ether | <10.00 | 50.00 | 51.57 | 103 | 53.01 | 106 | 48-129 | 3 | 25 | ug/L | 10/30/15 14:26 | |
| tert-Amyl methyl ether | <10.00 | 50.00 | 50.52 | 101 | 54.96 | 110 | 50-139 | 8 | 25 | ug/L | 10/30/15 14:26 | |
| Benzene | <1.000 | 50.00 | 58.60 | 117 | 56.91 | 114 | 75-132 | 3 | 25 | ug/L | 10/30/15 14:26 | |
| Bromochloromethane | <1.000 | 50.00 | 55.44 | 111 | 56.45 | 113 | 67-130 | 2 | 25 | ug/L | 10/30/15 14:26 | |
| Bromodichloromethane | <1.000 | 50.00 | 57.97 | 116 | 58.17 | 116 | 69-134 | 0 | 25 | ug/L | 10/30/15 14:26 | |
| Bromoform | <5.000 | 50.00 | 55.04 | 110 | 57.77 | 116 | 65-115 | 5 | 25 | ug/L | 10/30/15 14:26 | X |
| Bromomethane | <1.000 | 50.00 | 59.36 | 119 | 61.05 | 122 | 29-154 | 3 | 25 | ug/L | 10/30/15 14:26 | |
| tert-Butyl alcohol | <20.00 | 50.00 | 55.54 | 111 | 57.78 | 116 | 1-183 | 4 | 25 | ug/L | 10/30/15 14:26 | |
| 2-Butanone (MEK) | <10.00 | 50.00 | 41.83 | 84 | 49.21 | 98 | 47-140 | 16 | 25 | ug/L | 10/30/15 14:26 | |
| tert-Butyl ethyl ether | <10.00 | 50.00 | 53.76 | 108 | 57.16 | 114 | 55-141 | 6 | 25 | ug/L | 10/30/15 14:26 | |
| Carbon Disulfide | <10.00 | 50.00 | 61.38 | 123 | 57.39 | 115 | 59-146 | 7 | 25 | ug/L | 10/30/15 14:26 | |
| Carbon Tetrachloride | <1.000 | 50.00 | 59.33 | 119 | 56.56 | 113 | 74-136 | 5 | 25 | ug/L | 10/30/15 14:26 | |
| Chlorobenzene | <1.000 | 50.00 | 56.82 | 114 | 54.49 | 109 | 78-115 | 4 | 25 | ug/L | 10/30/15 14:26 | |
| Chloroethane | <1.000 | 50.00 | 60.31 | 121 | 61.45 | 123 | 40-150 | 2 | 25 | ug/L | 10/30/15 14:26 | |
| Chloroform | <1.000 | 50.00 | 56.73 | 113 | 55.97 | 112 | 67-130 | 1 | 25 | ug/L | 10/30/15 14:26 | |
| Chloromethane | <1.000 | 50.00 | 57.65 | 115 | 62.73 | 125 | 59-144 | 8 | 25 | ug/L | 10/30/15 14:26 | |
| Cyclohexane | <10.00 | 50.00 | 64.46 | 129 | 61.09 | 122 | 34-161 | 5 | 25 | ug/L | 10/30/15 14:26 | |
| 1,2-Dibromo-3-Chloropropane | <10.00 | 50.00 | 52.62 | 105 | 57.70 | 115 | 45-125 | 9 | 25 | ug/L | 10/30/15 14:26 | |
| Dibromochloromethane | <1.000 | 50.00 | 57.22 | 114 | 57.61 | 115 | 73-114 | 1 | 25 | ug/L | 10/30/15 14:26 | X |
| 1,2-Dibromoethane (EDB) | <1.000 | 50.00 | 54.12 | 108 | 56.36 | 113 | 72-126 | 4 | 25 | ug/L | 10/30/15 14:26 | |
| 1,2-Dichlorobenzene | <1.000 | 50.00 | 54.84 | 110 | 54.29 | 109 | 73-117 | 1 | 25 | ug/L | 10/30/15 14:26 | |
| 1,3-Dichlorobenzene | <1.000 | 50.00 | 54.91 | 110 | 53.61 | 107 | 73-117 | 2 | 25 | ug/L | 10/30/15 14:26 | |
| 1,4-Dichlorobenzene | <1.000 | 50.00 | 54.57 | 109 | 52.67 | 105 | 72-111 | 4 | 25 | ug/L | 10/30/15 14:26 | |
| Dichlorodifluoromethane | <1.000 | 50.00 | 57.60 | 115 | 56.94 | 114 | 47-159 | 1 | 25 | ug/L | 10/30/15 14:26 | |
| 1,1-Dichloroethane | <1.000 | 50.00 | 56.96 | 114 | 55.80 | 112 | 44-152 | 2 | 25 | ug/L | 10/30/15 14:26 | |
| 1,2-Dichloroethane | <1.000 | 50.00 | 54.28 | 109 | 57.71 | 115 | 60-142 | 6 | 25 | ug/L | 10/30/15 14:26 | |
| 1,1-Dichloroethene | <1.000 | 50.00 | 59.18 | 118 | 58.75 | 118 | 50-136 | 1 | 25 | ug/L | 10/30/15 14:26 | |
| cis-1,2-Dichloroethene | <1.000 | 50.00 | 58.08 | 116 | 57.60 | 115 | 76-127 | 1 | 25 | ug/L | 10/30/15 14:26 | |
| 1,2-Dichloropropane | <1.000 | 50.00 | 58.58 | 117 | 56.70 | 113 | 70-139 | 3 | 25 | ug/L | 10/30/15 14:26 | |
| cis-1,3-Dichloropropene | <1.000 | 50.00 | 59.02 | 118 | 60.11 | 120 | 64-127 | 2 | 25 | ug/L | 10/30/15 14:26 | |
| trans-1,3-Dichloropropene | <1.000 | 50.00 | 58.40 | 117 | 59.35 | 119 | 62-123 | 2 | 25 | ug/L | 10/30/15 14:26 | |
| trans-1,2-Dichloroethene | <1.000 | 50.00 | 57.89 | 116 | 56.84 | 114 | 54-144 | 2 | 25 | ug/L | 10/30/15 14:26 | |
| Diisopropyl ether | <10.00 | 50.00 | 58.90 | 118 | 61.49 | 123 | 49-150 | 4 | 25 | ug/L | 10/30/15 14:26 | |
| Ethylbenzene | <1.000 | 50.00 | 59.04 | 118 | 56.03 | 112 | 74-129 | 5 | 25 | ug/L | 10/30/15 14:26 | |
| 2-Hexanone | <10.00 | 50.00 | 49.14 | 98 | 55.69 | 111 | 50-130 | 12 | 25 | ug/L | 10/30/15 14:26 | |
| Isopropylbenzene | <1.000 | 50.00 | 57.90 | 116 | 54.71 | 109 | 72-130 | 6 | 25 | ug/L | 10/30/15 14:26 | |
| Methyl Acetate | <10.00 | 50.00 | 53.04 | 106 | 59.10 | 118 | 37-143 | 11 | 25 | ug/L | 10/30/15 14:26 | |
| Methylcyclohexane | <10.00 | 50.00 | 62.17 | 124 | 59.25 | 119 | 55-148 | 5 | 25 | ug/L | 10/30/15 14:26 | |
| Methylene Chloride | <1.000 | 50.00 | 57.50 | 115 | 55.86 | 112 | 56-137 | 3 | 25 | ug/L | 10/30/15 14:26 | |
| 4-Methyl-2-Pentanone | <5.000 | 50.00 | 45.86 | 92 | 52.43 | 105 | 44-133 | 13 | 25 | ug/L | 10/30/15 14:26 | |
| Methyl-t-butyl ether | <1.000 | 50.00 | 53.89 | 108 | 58.33 | 117 | 22-182 | 8 | 25 | ug/L | 10/30/15 14:26 | |
| Naphthalene | 2.400 | 50.00 | 53.11 | 101 | 58.31 | 112 | 7-137 | 9 | 25 | ug/L | 10/30/15 14:26 | |
| Styrene | <1.000 | 50.00 | 57.95 | 116 | 55.66 | 111 | 67-121 | 4 | 25 | ug/L | 10/30/15 14:26 | |
| 1,1,2,2-Tetrachloroethane | <1.000 | 50.00 | 53.24 | 106 | 56.17 | 112 | 68-127 | 5 | 25 | ug/L | 10/30/15 14:26 | |
| Tetrachloroethene | <1.000 | 50.00 | 58.02 | 116 | 56.08 | 112 | 69-126 | 3 | 25 | ug/L | 10/30/15 14:26 | |
| Toluene | <1.000 | 50.00 | 58.42 | 117 | 56.12 | 112 | 74-132 | 4 | 25 | ug/L | 10/30/15 14:26 | |
| 1,2,3-Trichlorobenzene | <1.000 | 50.00 | 56.35 | 113 | 57.73 | 115 | 9-139 | 2 | 25 | ug/L | 10/30/15 14:26 | |
| 1,2,4-Trichlorobenzene | <1.000 | 50.00 | 55.77 | 112 | 56.32 | 113 | 31-135 | 1 | 25 | ug/L | 10/30/15 14:26 | |
| 1,1,1-Trichloroethane | <1.000 | 50.00 | 57.14 | 114 | 55.33 | 111 | 70-138 | 3 | 25 | ug/L | 10/30/15 14:26 | |

# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15102126

UMM Shore Regional Health at Chestertown
CRHC

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

Seq Number: 127292 Matrix: Ground Water Date Prep: 10/30/15

Parent Sample Id: 15102126-024 MS Sample Id: 15102126-024 S MSD Sample Id: 15102126-024 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 | 56.06 | 112 | 57.66 | 115 | 65-143 | 3 | 25 | ug/L | 10/30/15 14:26 | |
| Trichloroethene | <1.000 | 50.00 | 57.78 | 116 | 55.99 | 112 | 67-139 | 3 | 25 | ug/L | 10/30/15 14:26 | |
| Trichlorofluoromethane | <5.000 | 50.00 | 62.15 | 124 | 60.00 | 120 | 37-147 | 4 | 25 | ug/L | 10/30/15 14:26 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | <1.000 | 50.00 | 61.08 | 122 | 60.20 | 120 | 47-139 | 1 | 25 | ug/L | 10/30/15 14:26 | |
| Vinyl Chloride | <1.000 | 50.00 | 57.85 | 116 | 57.87 | 116 | 60-146 | 0 | 25 | ug/L | 10/30/15 14:26 | |
| m,p-Xylenes | <2.000 | 100 | 117.1 | 117 | 109 | 109 | 78-119 | 7 | 25 | ug/L | 10/30/15 14:26 | |
| o-Xylene | <1.000 | 50.00 | 58.12 | 116 | 55.23 | 110 | 80-123 | 5 | 25 | ug/L | 10/30/15 14:26 | |

| Surrogate | MS Result | MS Flag | MSD Result | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 96 | | 97 | | 81-133 | % | 10/30/15 14:26 |
| Dibromofluoromethane | 100 | | 102 | | 84-110 | % | 10/30/15 14:26 |
| Toluene-D8 | 101 | | 102 | | 94-109 | % | 10/30/15 14:26 |

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@BRIGHTFIELDSINC.COM FAX NO.: ( )

*PROJECT NAME: CR17C PROJECT NO.:

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

SAMPLER(S): R. MORTEL, M. ATTERBURY DW CERT NO.:

PSS Work Order #: 15102126 PAGE 1 OF 9

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: HCL | Analysis/ Method Required (3) *: DRO VIA 8015 | VOC VIA 8260 | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MW20 | 10/20/15 | 1240 | GW | 4 | G | | X | X | |
| 2 | MW19 | | 1240 | | | | | | | |
| 3 | MW33 | | 1245 | | | | | | | |
| 4 | MW34 | | 1255 | | | | | | | |
| 5 | MW16 | | 1248 | | | | | | | |
| 6 | MW35 | | 1258 | | | | | | | |
| 7 | MW48 | | 1300 | | | | | | | |
| 8 | MW17 | | 1310 | | | | | | | |
| 9 | MW15 | | 1310 | | | | | | | |
| 10 | MW50 | | 1320 | | | | | | | |

(5)

| Relinquished By: (1) | Date | Time | Received By: |
|---|---|---|---|
| Ken Mortel | 10/21/15 | 1410 | Dan Carter #2035 |
| Relinquished By: (2) | Date | Time | Received By: |
| Dan Carter #2035 | 10/21/15 | 1600 | Arlen J Confer |
| 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: 8, 3, 12, 12, 4°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@BRIGHTFIELDGRP.COM FAX NO.: ( )

*PROJECT NAME: CRHC PROJECT NO.:

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

SAMPLER(S): R. NORTEL, M. ATTERBURY DW CERT NO.:

PSS Work Order #: 15102126 PAGE 2 OF 5

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 | DRO VIA 8015 | VOC VIA 8260 | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Preservatives Used | | HCL | |
| | | | | | | Analysis/ Method Required (3) * | | | |
| 11 | MW12 | 10/20/15 | 1331 | GW | 4 | G | X | X | |
| 12 | MW21 | 10/20/15 | 1331 | GW | 4 | G | X | X | |
| 13 | MW11 | 10/21/15 | 0848 | | | | | | |
| 14 | MW13 | | 0858 | | | | | | |
| 15 | MW41 | | 0907 | | | | | | |
| 16 | MW9 | | 0920 | | | | | | |
| 17 | MW42 | | 0930 | | | | | | |
| 18 | MW43 | | 0942 | | | | | | |
| 19 | MW40 | | 1052 | | | | | | |
| 20 | MW10R | | 1005 | | | | | | |

(5)

| Relinquished By: | Date | Time | Received By: |
|---|---|---|---|
| (1) R. Nortel | 10/21/15 | 1410 | Dan Pantz, #2035 |
| (2) Dan Pantz, #2035 | 10/21/15 | 1600 | Asher J Cooper |
| (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: 8, 3, 12, 12, 4°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@BRIGHTFIELDS.COM FAX NO.: ( )
*PROJECT NAME: CRAC PROJECT NO.:
SITE LOCATION: CHESTERTOWN, MD P.O. NO.:
SAMPLER(S): R. MORTEL DW CERT NO.:

PSS Work Order #: 15102126 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 | Preservatives Used | | HCL | HCL | | | | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Analysis/ Method Required (3) * | | DRO VIA 8015 | VOC VIA 8260 | GRO VIA 8015 | | | | | | | | | |
| 21 | MW31R | 10/21/15 | 1018 | GW | 4 | | | | X | X | | | | | | | | | | |
| 22 | MW32 | | 1042 | | | | | | | | | | | | | | | | | |
| 23 | MW44 | | 1052 | | | | | | | | | | | | | | | | | |
| 24 | RW2D | | 1125 | | | | | | | | | | | | | | | | | |
| 25 | RW3B | | 1130 | | | | | | | | | | | | | | | | | |
| 26 | RW4 | | 1135 | | | | | | | | | | | | | | | | | |
| 27 | RW5 | | 1140 | | | | | | | | | | | | | | | | | |
| 28 | RW6 | | 1145 | | | | | | | | | | | | | | | | | |
| 29 | MW22 | | 1150 | | | | | | | | | | | | | | | | | |
| 30 | SYS EFF | | 1210 | | 5 | | | | | | X | | | | | | | | | |

(5)

| Relinquished By: | Date | Time | Received By: |
|---|---|---|---|
| (1) R. Mortel | 10/21/15 | 1410 | Dan Parts #2035 |
| (2) Dan Parts #2035 | 10/21/15 | 1600 | Abby Cooper |
| (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: 8, 3, 12, 12, 4°C
Shipping Carrier: TTE

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

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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@BRIGHTFIELDSINC.COM FAX NO.: ( )

*PROJECT NAME: CRHC PROJECT NO.:

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

SAMPLER(S): R. MORTEL, M. ATTEBURY DW CERT NO.:

PSS Work Order #: 15 102126 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 | Preservatives Used | | HCL | | | | | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Analysis/ Method Required (3) * | | DRO VA 8015 | VOC VA 8260 | | | | | | | | | | |
| 31 | MW49 | 10/20/15 | 1320 | GW | 4 | G | | | X | X | | | | | | | | | | |

(5)

| Relinquished By: (1) | Date | Time | Received By: |
|---|---|---|---|
| Dan Mortel | 10/21/15 | 1410 | Dan Parts, #2035 |
| Relinquished By: (2) | Date | Time | Received By: |
| Dan Parts, #2035 | 10/21/15 | 1600 | Amber L Cooper |
| 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: 8, 3, 12, 12, 4°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 #** | 15102126 | **Received By** | Amber Confer |
| **Client Name** | UMM Shore Regional Health at Ches | **Date Received** | 10/21/2015 04:00:00 PM |
| **Project Name** | CRHC | **Delivered By** | Trans Time Express |
| **Disposal Date** | 11/25/2015 | **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) | 4 |
| 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 |
| | | Ice | Present |
| Custody Seal(s) Intact? | N/A | Temp (deg C) | 12 |
| Seal(s) Signed / Dated? | N/A | Temp Blank Present | No |

**Documentation**

| | | | |
|---|---|---|---|
| | | Sampler Name | RM, MA |
| 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 31

Total No. of Containers Received 125

**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 #** | 15102126 | **Received By** | Amber Confer |
| **Client Name** | UMM Shore Regional Health at Ches | **Date Received** | 10/21/2015 04:00:00 PM |
| **Project Name** | CRHC | **Delivered By** | Trans Time Express |
| **Disposal Date** | 11/25/2015 | **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: 10/22/2015

PM Review and Approval: Lynn Jackson — Date: 10/22/2015

# APPENDIX B

# WELL GAUGING & FIELD REPORTS

**PETROLEUM PRODUCT / WATER - LEVEL DATA SHEET**

Project #: 3111.01.52

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

DATE: October 19, 2015
WEATHER: Sunny, 40's
COLLECTED BY: Ron Mortel
ENTERED BY: James Sines

Type product: Fuel oil
Petro correction factor: 0.80

| Monitoring Point | Description of Measuring Point (ft msl) | Measuring Point Elevation (ft) | Product Depth (ft) | Water Depth (ft) | Product Thickness (ft) | Fluid Level Elevation (ft msl) | Corrected Water Elevation (ft msl) | Estimated Amount Product Recovered (gal) / NOTES: |
|---|---|---|---|---|---|---|---|---|
| MW-1 | Lip of Casing | 57.05 | | 46.38 | | 10.67 | 10.67 | |
| MW-2 | Lip of Casing | 56.37 | | 45.91 | | 10.46 | 10.46 | |
| MW-3 | Lip of Casing | 50.55 | | 40.63 | | 9.92 | 9.92 | |
| MW-4 | Lip of Casing | 53.40 | | 43.05 | | 10.35 | 10.35 | |
| MW-5 | Lip of Casing | 61.08 | | 50.41 | | 10.67 | 10.67 | |
| MW-6 | Lip of Casing | -------- | -------- | -------- | -------- | -------- | -------- | Well destroyed in building expansion Nov 2000 |
| MW-7 | Lip of Casing | -------- | -------- | -------- | -------- | -------- | -------- | Well destroyed in building expansion Nov 2000 |
| MW-8 | Lip of Casing | -------- | -------- | -------- | -------- | -------- | -------- | Well abandoned Aug. 2013 |
| MW-9 | Lip of Casing | 46.60 | | 38.60 | | 8.00 | 8.00 | |
| MW-10 | Lip of Casing | -------- | -------- | -------- | -------- | -------- | -------- | Well abandoned Nov 2012 |
| MW-10R | Lip of Casing | 48.70 | | 40.25 | | 8.45 | 8.45 | |
| MW-11 | Lip of Casing | 41.49 | | 33.07 | | 8.42 | 8.42 | |
| MW-12 | Lip of Casing | 44.46 | | 35.70 | | 8.76 | 8.76 | |
| MW-13 | Lip of Casing | 41.70 | | 34.45 | | 7.25 | 7.25 | |
| MW-14 | Lip of Casing | 41.38 | | 35.04 | | 6.34 | 6.34 | Slight Petro-like Odor |
| MW-15 | Lip of Casing | 35.01 | | 26.85 | | 8.16 | 8.16 | |
| MW-16 | Lip of Casing | 35.55 | | 27.79 | | 7.76 | 7.76 | |
| MW-17 | Lip of Casing | 35.49 | | 27.03 | | 8.46 | 8.46 | |
| MW-18 | Lip of Casing | 35.82 | | 28.03 | | 7.79 | 7.79 | |
| MW-19 | Lip of Casing | 38.85 | | 31.54 | | 7.31 | 7.31 | |
| MW-20 | Lip of Casing | 38.72 | | 31.56 | | 7.16 | 7.16 | |
| MW-21 | Lip of Casing | 38.55 | | 30.56 | | 7.99 | 7.99 | |
| **MW-22** | Lip of Casing | 47.04 | | 39.91 | | 7.13 | 7.13 | |
| MW-23 | Lip of Casing | 35.95 | | 28.28 | | 7.67 | 7.67 | |
| MW-24 | Lip of Casing | 36.56 | | 28.75 | | 7.81 | 7.81 | |
| MW-25 | Lip of Casing | 36.10 | | 28.09 | | 8.01 | 8.01 | |
| MW-27 | Lip of Casing | -------- | -------- | -------- | -------- | -------- | -------- | Well abandoned Nov 2006 |
| MW-28 | Lip of Casing | 35.90 | | 27.57 | | 8.33 | 8.33 | |
| MW-29 | Lip of Casing | 35.15 | | 27.49 | | 7.66 | 7.66 | |
| 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 | | 38.17 | | 9.23 | 9.23 | |
| MW-32 | Lip of Casing | 47.41 | | 38.92 | | 8.49 | 8.49 | |
| MW-33 | Lip of Casing | 36.52 | | 28.91 | | 7.61 | 7.61 | |
| MW-34 | Lip of Casing | 36.64 | | 29.03 | | 7.61 | 7.61 | |
| MW-35 | Lip of Casing | 38.62 | | 30.81 | | 7.81 | 7.81 | |
| MW-37 | Lip of Casing | 50.54 | | 40.52 | | 10.02 | 10.02 | |
| 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 | | 40.82 | | -0.28 | -0.28 | |
| **RW-3B** | Lip of Casing | 39.45 | | 40.12 | | -0.67 | -0.67 | Slight Petro-like Odor |
| MW-40 | Lip of Casing | 48.88 | | 40.82 | | 8.06 | 8.06 | |
| MW-41 | Lip of Casing | 43.15 | | 36.20 | | 6.95 | 6.95 | |
| **RW-4** | Lip of Casing | 48.15 | | 43.33 | | 4.82 | 4.82 | |
| **RW-5** | Lip of Casing | 43.34 | | 41.21 | | 2.13 | 2.13 | |
| **RW-6** | Lip of Casing | 47.22 | | 43.08 | | 4.14 | 4.14 | |
| RW-2A | Lip of Casing | -------- | -------- | -------- | -------- | -------- | -------- | Well abandoned Mar 2008 |
| RW-2B | Lip of Casing | -------- | -------- | -------- | -------- | -------- | -------- | Well abandoned Mar 2008 |
| 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 | | 38.81 | | 8.30 | 8.30 | |
| MW-43 | Lip of Casing | 47.90 | | 40.07 | | 7.83 | 7.83 | |
| MW-44 | Lip of Casing | 47.20 | | 38.42 | | 8.78 | 8.78 | |
| MW-45 | Lip of Casing | 40.70 | | N/A | | #VALUE! | #VALUE! | Car Parked over Well |
| MW-46 | Lip of Casing | 40.89 | | N/A | | #VALUE! | #VALUE! | Car Parked over Well |
| MW-47 | Lip of Casing | 40.74 | | 34.42 | | 6.32 | 6.32 | Slight Petro-like Odor |
| MW-48 | Lip of Casing | 36.22 | | 28.31 | | 7.91 | 7.91 | |
| MW-49 | Lip of Casing | 35.49 | | 27.57 | | 7.92 | 7.92 | |
| MW-50 | Lip of Casing | 35.64 | | 27.84 | | 7.80 | 7.80 | |
| IW-1 | Lip of Casing | -------- | -------- | -------- | -------- | -------- | -------- | |

| | | | |
|---|---|---|---|
| Project Name: | **Chester River Hospital Center** | Date: | Friday, October 02, 2015 |
| Project #: | 3111.01.52 | Time on - site: | 8:45 AM |
| Location: | **Chestertown, Maryland** | Weather: | Rain, windy |
| Personnel present at site: | MC & RCM | Vehicle: | 1 |

| **Reason for site visit:** | yes | no | |
|---|---|---|---|
| Surveying | ☐ | ☑ | Surfactant Extractions |
| 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) | ☐ | ☑ | ☐ | 14 | NA | Bag filter not changed due to low PSI. |
| | BF-2 (Primary - 50 micron bag) | ☐ | ☑ | ☐ | 14 | NA | Bag filter not changed due to low PSI. |
| | BF-3 (Secondary (25 micron bag) | ☐ | ☑ | ☐ | 14 | NA | Bag filter not changed due to low PSI. |
| | BF-4 (Primary - 50 micron bag) | ☐ | ☑ | ☐ | 13 | NA | Bag filter not changed due to low PSI. |

| **Recovery Wells** | Actively Pumping | yes | no | n/a | DTW | DTP | GPM | **Totalizer** | Comments |
|---|---|---|---|---|---|---|---|---|---|
| | RW-2D | ☑ | ☐ | ☐ | NA | N/A | 22.05 | 5121929 | DTW not collected |
| | RW-3B | ☑ | ☐ | ☐ | NA | N/A | 21.52 | 18294084 | DTW not collected |
| | RW-4 | ☑ | ☐ | ☐ | NA | N/A | 8.64 | 63868164 | DTW not collected |
| | RW-5 | ☑ | ☐ | ☐ | NA | N/A | 12.01 | 11494840 | DTW not collected |
| | RW-6 | ☑ | ☐ | ☐ | NA | N/A | 21.15 | 33463114 | DTW not collected |
| | MW-22 | ☑ | ☐ | ☐ | NA | N/A | 1.21 | 2278728 | DTW not collected |

| | |
|---|---|
| **Site Visit Summary** | The system was running upon arrival. PSI for all bag filters were low ~14.<br>The bag filters were last changed on 10/2/15 by Ivey Sol personnel. |

| | | | |
|---|---|---|---|
| Project Name: | **Chester River Hospital Center** | Date: | Friday, October 09, 2015 |
| Project #: | 3111.01.52 | Time on - site: | 8:50 AM |
| Location: | **Chestertown, Maryland** | Weather: | Rain |
| Personnel present at site: | MC & RCM | Vehicle: | 1 |

| **Reason for site visit:** | yes | no | |
|---|---|---|---|
| Surveying | ☐ | ☑ | Surfactant Extractions |
| 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) | ☐ | ☑ | ☐ | 14 | NA | Bag filter not changed due to low PSI. |
| | BF-2 (Primary - 50 micron bag) | ☐ | ☑ | ☐ | 14 | NA | Bag filter not changed due to low PSI. |
| | BF-3 (Secondary (25 micron bag) | ☐ | ☑ | ☐ | 14 | NA | Bag filter not changed due to low PSI. |
| | BF-4 (Primary - 50 micron bag) | ☐ | ☑ | ☐ | 14 | NA | Bag filter not changed due to low PSI. |

| **Recovery Wells** | Actively Pumping | yes | no | n/a | DTW | DTP | GPM | **Totalizer** | Comments |
|---|---|---|---|---|---|---|---|---|---|
| | RW-2D | ☑ | ☐ | ☐ | NA | N/A | 21.53 | 5344811 | DTW not collected |
| | RW-3B | ☑ | ☐ | ☐ | NA | N/A | 21.20 | 18508152 | DTW not collected |
| | RW-4 | ☑ | ☐ | ☐ | NA | N/A | 8.04 | 63997707 | DTW not collected |
| | RW-5 | ☑ | ☐ | ☐ | NA | N/A | 11.43 | 11613956 | DTW not collected |
| | RW-6 | ☑ | ☐ | ☐ | NA | N/A | 20.16 | 33672830 | DTW not collected |
| | MW-22 | ☑ | ☐ | ☐ | NA | N/A | 2.05 | 2298865 | DTW not collected |

| | |
|---|---|
| **Site Visit Summary** | The system was running upon arrival. PSI for all bag filters were low ~14.<br>The bag filters were last changed on 10/8/15 by Ivey Sol personnel. |

| | | | |
|---|---|---|---|
| Project Name: | **Chester River Hospital Center** | Date: | Friday, October 16, 2015 |
| Project #: | 3111.01.52 | Time on - site: | 8:35 AM |
| Location: | **Chestertown, Maryland** | Weather: | Rain |
| Personnel present at site: | RCM & VMB | Vehicle: | 1 |

| **Reason for site visit:** | yes | no | |
|---|---|---|---|
| Surveying | ☐ | ☑ | Surfactant Extractions |
| 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 | NA | Bag filter not changed due to low PSI. |
| | BF-2 (Primary - 50 micron bag) | ☐ | ☑ | ☐ | 16 | NA | Bag filter not changed due to low PSI. |
| | BF-3 (Secondary (25 micron bag) | ☐ | ☑ | ☐ | 16 | NA | Bag filter not changed due to low PSI. |
| | BF-4 (Primary - 50 micron bag) | ☐ | ☑ | ☐ | 16 | NA | Bag filter not changed due to low PSI. |

| **Recovery Wells** | Actively Pumping | yes | no | n/a | DTW | DTP | GPM | **Totalizer** | Comments |
|---|---|---|---|---|---|---|---|---|---|
| | RW-2D | ☑ | ☐ | ☐ | NA | N/A | 21.68 | 5567300 | DTW not collected |
| | RW-3B | ☑ | ☐ | ☐ | NA | N/A | 20.98 | 18723505 | DTW not collected |
| | RW-4 | ☑ | ☐ | ☐ | NA | N/A | 7.74 | 64025921 | DTW not collected |
| | RW-5 | ☑ | ☐ | ☐ | NA | N/A | 11.93 | 11733430 | DTW not collected |
| | RW-6 | ☑ | ☐ | ☐ | NA | N/A | 20.28 | 33882447 | DTW not collected |
| | MW-22 | ☑ | ☐ | ☐ | NA | N/A | 2.09 | 2320536 | DTW not collected |

| | |
|---|---|
| **Site Visit Summary** | The system was running upon arrival. PSI for all bag filters were low ~16.<br>The bag filters were last changed on 10/14/15 by Ivey Sol personnel. |

| | | | |
|---|---|---|---|
| Project Name: | **Chester River Hospital Center** | Date: | Friday, October 23, 2015 |
| Project #: | 3111.01.52 | Time on - site: | 8:55 AM |
| Location: | **Chestertown, Maryland** | Weather: | Sunny |
| Personnel present at site: | RCM & MC | Vehicle: | 1 |

| **Reason for site visit:** | yes | no | |
|---|---|---|---|
| Surveying | ☐ | ☑ | |
| Monitoring | ☐ | ☑ | |
| Sampling | ☐ | ☑ | |
| Other | ☑ | ☐ | Surfactant Extractions |
| 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) | ☐ | ☑ | ☐ | 14 | NA | Bag filter not changed due to low PSI. |
| | BF-2 (Primary - 50 micron bag) | ☐ | ☑ | ☐ | 14 | NA | Bag filter not changed due to low PSI. |
| | BF-3 (Secondary (25 micron bag) | ☐ | ☑ | ☐ | 14 | NA | Bag filter not changed due to low PSI. |
| | BF-4 (Primary - 50 micron bag) | ☐ | ☑ | ☐ | 14 | NA | Bag filter not changed due to low PSI. |

| **Recovery Wells** | Actively Pumping | yes | no | n/a | DTW | DTP | GPM | **Totalizer** | Comments |
|---|---|---|---|---|---|---|---|---|---|
| | RW-2D | ☑ | ☐ | ☐ | NA | N/A | 21.61 | 5770525 | DTW not collected |
| | RW-3B | ☑ | ☐ | ☐ | NA | N/A | 20.88 | 18920350 | DTW not collected |
| | RW-4 | ☑ | ☐ | ☐ | NA | N/A | 7.70 | 64098436 | DTW not collected |
| | RW-5 | ☑ | ☐ | ☐ | NA | N/A | 11.91 | 11846005 | DTW not collected |
| | RW-6 | ☑ | ☐ | ☐ | NA | N/A | 20.56 | 34076884 | DTW not collected |
| | MW-22 | ☑ | ☐ | ☐ | NA | N/A | 2.08 | 2331732 | DTW not collected |

| | |
|---|---|
| **Site Visit Summary** | The system was running upon arrival. PSI for all bag filters were low ~14.<br>The bag filters were last changed on 10/22/15 by Ivey Sol personnel. |

| | | | |
|---|---|---|---|
| Project Name: | **Chester River Hospital Center** | Date: | Friday, October 30, 2015 |
| Project #: | 3111.01.52 | Time on - site: | 8:50 AM |
| Location: | **Chestertown, Maryland** | Weather: | Sunny |
| Personnel present at site: | RCM | Vehicle: | 1 |

| **Reason for site visit:** | yes | no | |
|---|---|---|---|
| Surveying | ☐ | ☑ | Surfactant Extractions |
| 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) | ☐ | ☑ | ☐ | 14 | NA | Bag filter not changed due to low PSI. |
| | BF-2 (Primary - 50 micron bag) | ☐ | ☑ | ☐ | 15 | NA | Bag filter not changed due to low PSI. |
| | BF-3 (Secondary (25 micron bag) | ☐ | ☑ | ☐ | 14 | NA | Bag filter not changed due to low PSI. |
| | BF-4 (Primary - 50 micron bag) | ☐ | ☑ | ☐ | 14 | NA | Bag filter not changed due to low PSI. |

| **Recovery Wells** | Actively Pumping | yes | no | n/a | DTW | DTP | GPM | **Totalizer** | Comments |
|---|---|---|---|---|---|---|---|---|---|
| | RW-2D | ☑ | ☐ | ☐ | NA | N/A | 21.81 | 5973367 | DTW not collected |
| | RW-3B | ☑ | ☐ | ☐ | NA | N/A | 20.54 | 19113072 | DTW not collected |
| | RW-4 | ☑ | ☐ | ☐ | NA | N/A | 7.78 | 64169589 | DTW not collected |
| | RW-5 | ☑ | ☐ | ☐ | NA | N/A | 11.94 | 11954870 | DTW not collected |
| | RW-6 | ☑ | ☐ | ☐ | NA | N/A | 20.43 | 34270703 | DTW not collected |
| | MW-22 | ☑ | ☐ | ☐ | NA | N/A | 1.04 | 2342205 | DTW not collected |

| | |
|---|---|
| **Site Visit Summary** | The system was running upon arrival. PSI for all bag filters were low ~14.<br>The bag filters were last changed on 10/30/15 by Ivey Sol personnel. |