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GROUNDWATER AND ENVIRONMENTAL CONSULTANTS
CENTREVILLE, MARYLAND

January 24, 2013

Ms. Susan Bull
MDE – Oil Control Program
1800 Washington Boulevard, Suite 620
Baltimore, MD 21230-1719

SUBJECT: CRHC – Monthly Post-Remedial Progress Report for January 2013

Dear Ms. Bull:

On January 7, 2013, 47 monitoring, recovery and injection wells at the Chester River Hospital Center (CRHC) (see Figure 1) were gauged in accordance with the monitoring modifications detailed in MDE-Oil Control Program's letter dated September 5, 2012. Using an oil/water interface probe, Earth Data personnel gauged each of the 47 onsite wells (see Figure 2) to determine the depth to the water-table and the presence, if any, of liquid hydrocarbons on the surface of the water-table. Using the gauging data, a water-table contour map was prepared showing the groundwater flow direction (see Figure 3).

Following the gauging, seven wells immediately down-gradient of the remediation/containment system were sampled (MW-16, MW-19, MW-20, MW-24, MW-33, MW-34 and MW-35). These wells are located in and around the lower parking lot south of Brown Street. MW-15 was not sampled because field personnel could not gain access to the well due to the presence of a vehicle parked over it. Additionally, monitoring wells MW-18 and MW-23 located along Campus Avenue were sampled during this site visit to verify results of the December 2012 round of sampling.

Prior to sampling, each well was purged of at least three well volumes of water to ensure that the sample collected was representative of the water in the surrounding formation. The purge water was filtered through granular activated carbon before being discharged onsite. Using dedicated disposable bailers for each well, groundwater samples were collected in pre-labeled sample containers and immediately placed on ice in the field. The samples were sent via courier to an EPA-approved laboratory and analyzed for volatile organic compounds (VOCs), including fuel oxygenates using EPA Method 8260 and for total petroleum hydrocarbons – diesel range organics (TPH-DRO) and gasoline range organics (TPH-GRO) using EPA Method 8015.

The water-table contour map prepared with the gauging data collected on January 7, 2013 showed a groundwater flow direction towards the southeast and the Chester River (Figure 3). This is consistent with previous data collected at the site since the shutdown

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of the remediation/containment system in July 2012. Two wells, MW-47 and RW-3B, were found to have measurable thicknesses of liquid hydrocarbons on the water-table surface (0.05 feet and 0.03 feet, respectively). An absorbent wick was used in each well to recover the liquid hydrocarbons, leaving a film after the wick was removed. A petroleum sheen or film was observed on the water-table in ten other wells at the site. The Earth Data well gauging report and corresponding field report for January 7, 2013 may be found in Appendix A.

Of the seven water samples collected from wells in the lower parking lot south of Brown Street, laboratory analytical results showed detectable concentrations of petroleum hydrocarbons in only one well (MW-20) (Table 1). This is consistent with previous findings since the shutdown of the system. TPH-DRO concentrations of 0.68 mg/L were found in the sample collected from MW-20. No detectable concentrations of TPH-DRO or TPH-GRO were found in any of the other samples collected. Naphthalene was detected in two water samples (MW-19 at 5.1 ug/L and MW-20 at 2.2 ug/L). Isopropylbenzene was also detected in the MW-19 sample at a concentration of 2.0 ug/L. No other VOCs were detected in any of the samples collected.

Water samples collected in December 2012 from MW-18, MW-19, MW-23 and MW-24 showed detectable concentrations of TPH-DRO for the first time since the system was shutdown in July 2012. Monitoring wells MW-18 and MW-23 are located along Campus Avenue approximately 500 feet south (downgradient) of Brown Street and the area of subsurface petroleum contamination. MW-24 is located along Riverside Street halfway between Brown Street and Campus Avenue. Monitoring well MW-19 is located along Brown Street approximately 50 feet east of MW-20. The varied locations of these wells, along with the sudden appearance of the dissolved petroleum hydrocarbons, suggest that the source of the TPH-DRO may be other than the release of fuel oil at the CRHC.

During the January sampling event, these four wells were resampled. No detectable concentrations of TPH-DRO were found in the samples collected. These latest results suggest that the samples collected in December were likely contaminated during the sampling process. Water quality maps for the well samples collected in January 2013 may be found in Figure 4. The laboratory analytical report may be found in Appendix B.

To document the movement, if any, of the liquid and dissolved phase hydrocarbon plumes, Earth Data will continue to gauge all wells and sample the eight targeted wells south of Brown Street on a monthly basis. If you have any question or require additional information, please do not hesitate to call.

Sincerely,

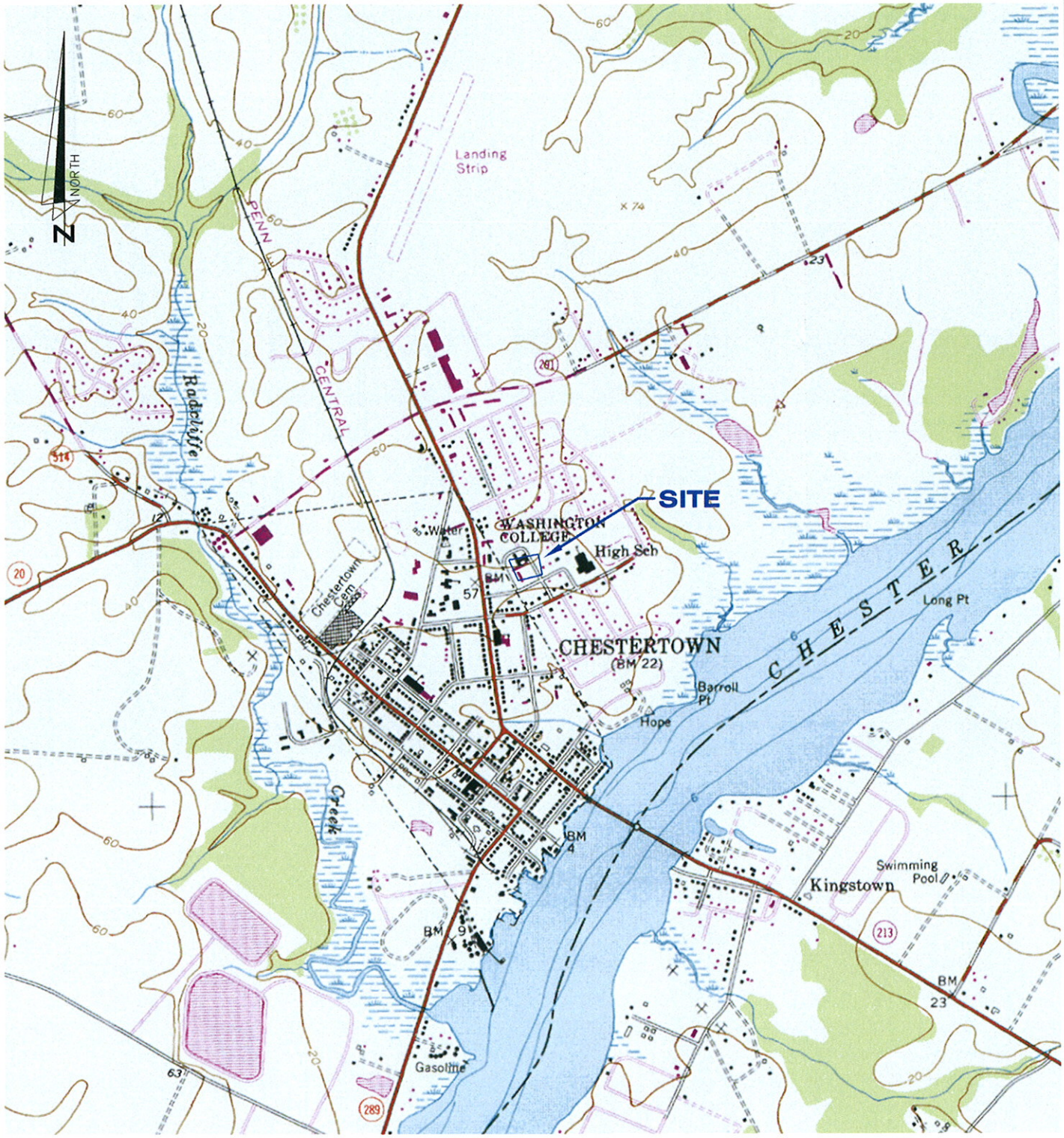
Andrew Bullen
Senior Project Manager

AJB:tjl - 2781

cc: Mr. Jim Ross, President - CRHC
Mr. Scott Burleson, VP - CRHC
Mr. Darryl Mealy - UMMC
Mr. Bill Ingersol – Town of Chestertown
Mr. Bob Sipes – Town of Chestertown
Mr. Tucker Moorshead – Earth Data, Inc.

Enclosures

FIGURES



2000 0 1000 2000

GRAPHIC SCALE
(FEET)

* CREATED 1953 *
* MODIFIED 1973 *

J:_Job_Directories\current\2781 Hospital\CAD\Quad\USGS.dwg

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FIGURE 1

LOCATION MAP
FOR
CHESTER RIVER HOSPITAL CENTER
CHESTERTOWN, MARYLAND

PROJ. MGR.:	A.BULLEN
DATE:	10/31/2011
SCALE:	AS SHOWN
EDI #:	2781
DRAWN BY:	T.COCHRUN

PORTION OF USGS 7.5 MINUTE QUADRANGLE FOR CHESTERTOWN, MARYLAND

Figure 1 – Portion of USGS Quadrangle for Chestertown showing the location of Chester River Hospital Center – Chestertown, Maryland.

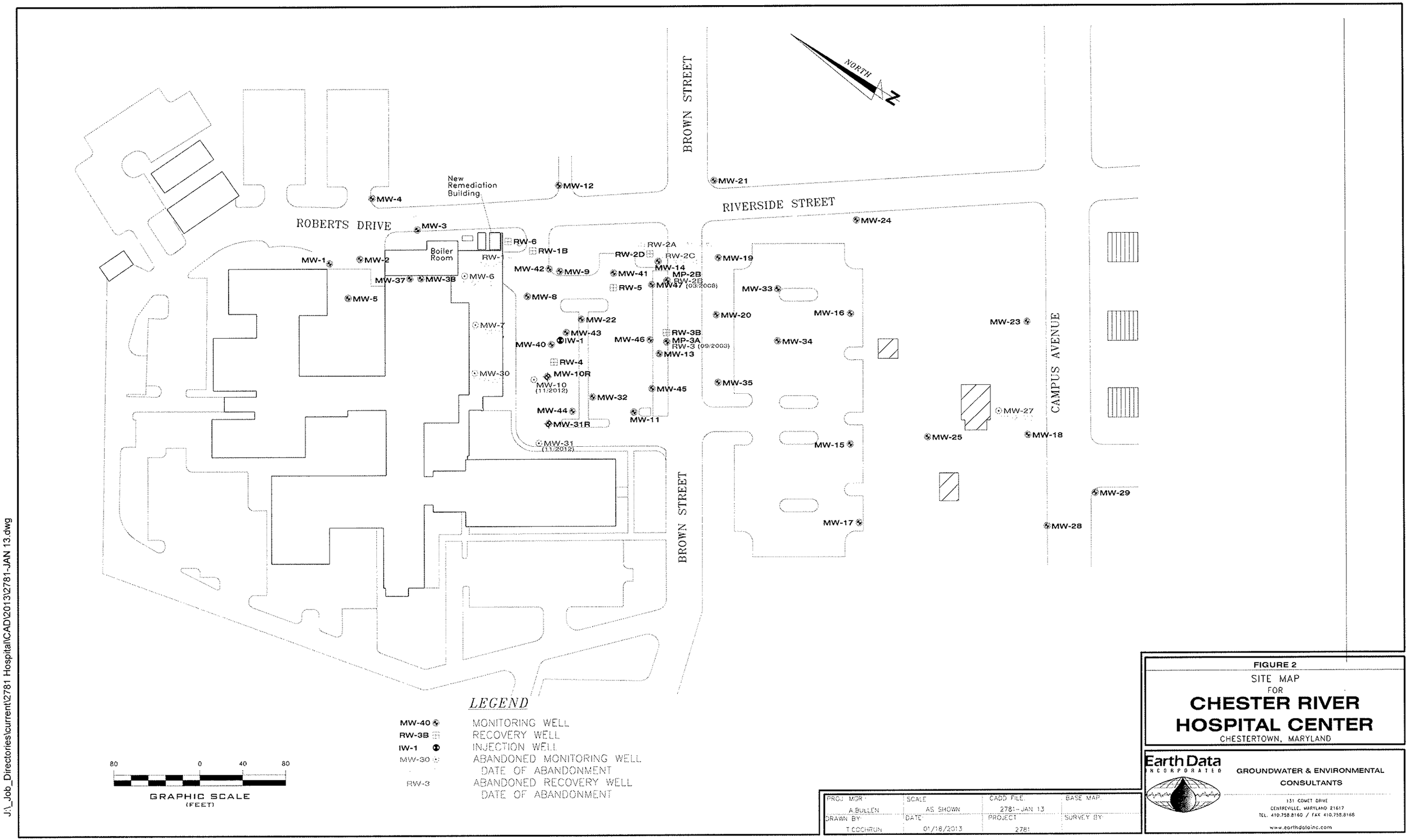

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Figure 2 – Site map showing the location of monitoring wells and other pertinent features at Chester River Hospital Center, Chestertown, Maryland.

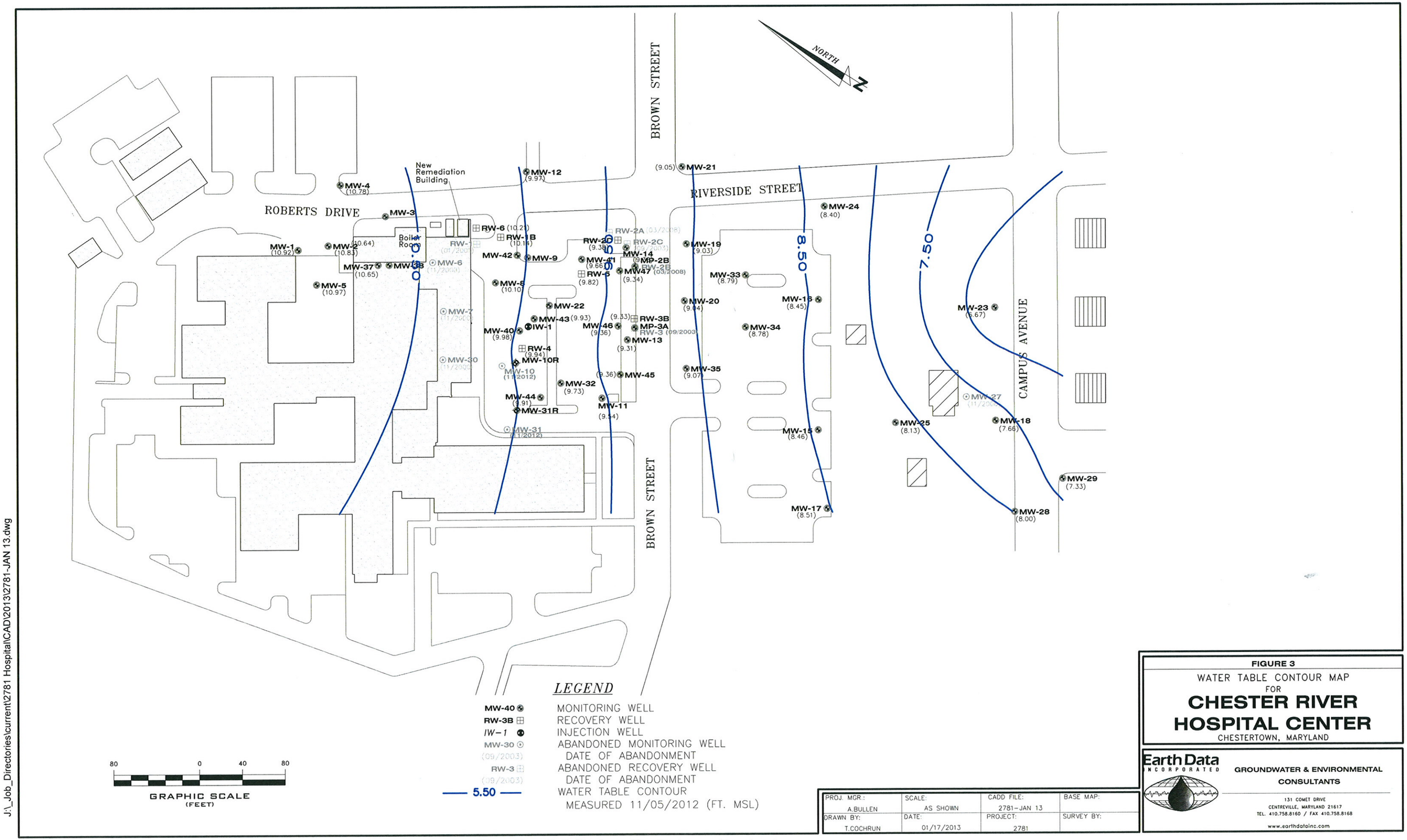
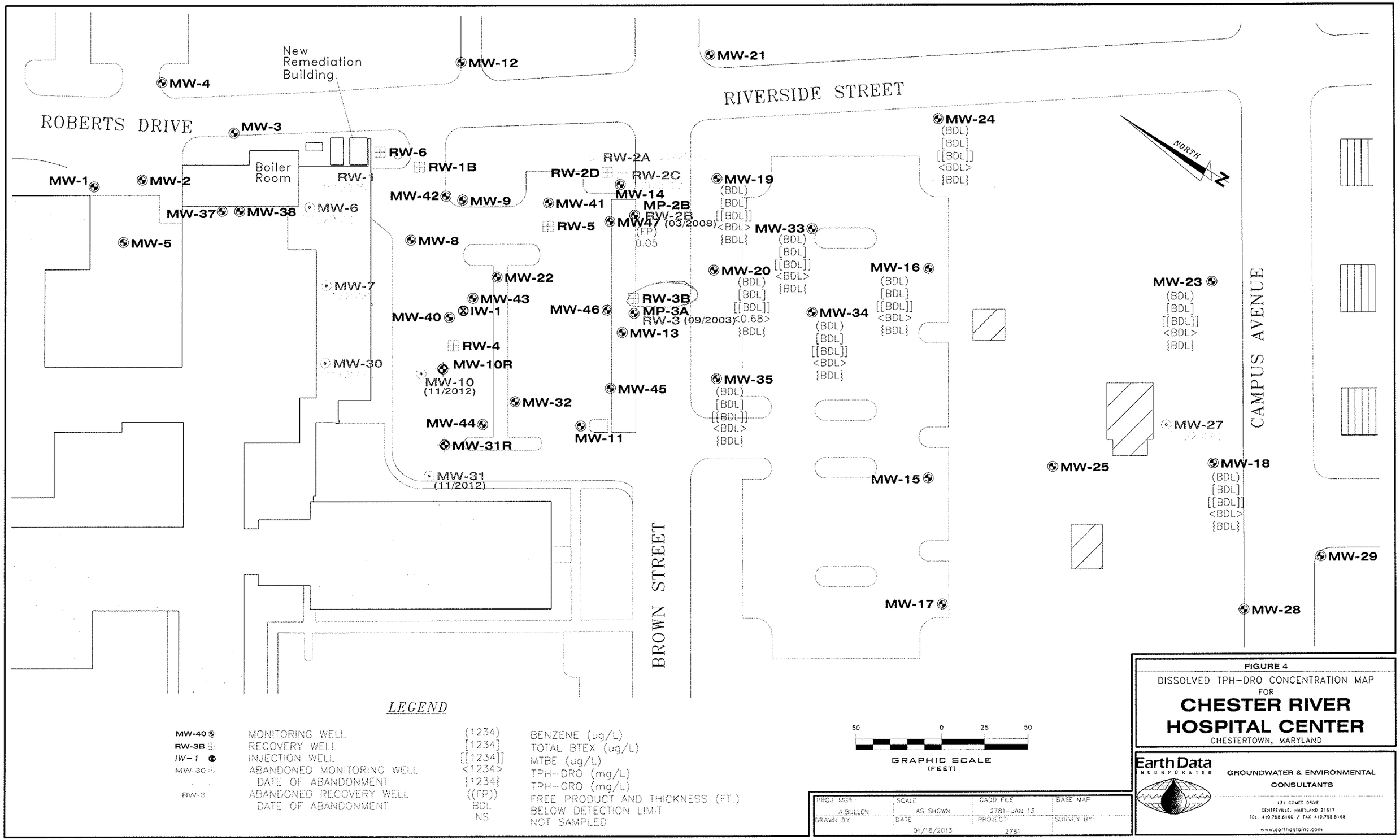


Figure 3 – Water table contour map, January 8, 2013 – Chester River Hospital Center, Chestertown, Maryland.



LEGEND

MW-40	MONITORING WELL	(1234)	BENZENE (ug/L)
RW-3B	RECOVERY WELL	[1234]	TOTAL BTEX (ug/L)
IW-1	INJECTION WELL	[[1234]]	MTBE (ug/L)
MW-30	ABANDONED MONITORING WELL	<1234>	TPH-DRO (mg/L)
	DATE OF ABANDONMENT	{1234}	TPH-GRO (mg/L)
RW-3	ABANDONED RECOVERY WELL	((FP))	FREE PRODUCT AND THICKNESS (FT.)
	DATE OF ABANDONMENT	BDL	BELOW DETECTION LIMIT
		NS	NOT SAMPLED

PROJ MGR	SCALE	CADD FILE	BASE MAP
A.BULLEN	AS SHOWN	2781-JAN 13	
DRAWN BY	DATE	PROJECT	SURVEY BY
	01/18/2013	2781	

FIGURE 4

DISSOLVED TPH-DRO CONCENTRATION MAP FOR

CHESTER RIVER HOSPITAL CENTER

CHESTERTOWN, MARYLAND

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Figure 4– Water quality map showing dissolved BTEX and total petroleum hydrocarbon (TPH) concentrations, January 8, 2013 Chester River Hospital Center, Chestertown, Maryland.

TABLE

MW-15

	5-Jun-12	27-Jul-12	5-Sep-12	1-Oct-12	5-Nov-12	4-Dec-12	7-Jan-13
Benzene (ug/L)	<1	NS	<1	<1	<1	<1	NS
Toluene (ug/L)	<1	NS	<1	<1	<1	<1	NS
Ethylbenzene (ug/L)	<1	NS	<1	<1	<1	<1	NS
Total Xylenes (ug/L)	<2	NS	<2	<2	<2	<2	NS
TOTAL BTEX (ug/L)	<2	NS	<2	<2	<2	<2	NS
Isopropylbenzene (ug/L)	<1	NS	<1	<1	<1	<1	NS
Naphthalene (ug/L)	<1	NS	<1	<1	<1	<1	NS
Acetone (ug/L)	<10	NS	<10	<10	<10	<10	NS
Chloroform (ug/L)	<1	NS	<1	<1	<1	<1	NS
Tetrachloroethene (ug/L)	<1	NS	<1	<1	<1	<1	NS
TPH-DRO (mg/L)	<0.1	NS	<0.1	<0.1	<0.1	<0.1	NS
TPH-GRO (mg/L)	NS	NS	NS	<0.1	<0.1	<0.1	NS

MW-16

	5-Jun-12	27-Jul-12	5-Sep-12	1-Oct-12	5-Nov-12	4-Dec-12	7-Jan-13
Benzene (ug/L)	<1	NS	<1	<1	<1	<1	<1
Toluene (ug/L)	<1	NS	<1	<1	<1	<1	<1
Ethylbenzene (ug/L)	<1	NS	<1	<1	<1	<1	<1
Total Xylenes (ug/L)	<2	NS	<2	<2	<2	<2	<2
TOTAL BTEX (ug/L)	<2	NS	<2	<2	<2	<2	<2
Isopropylbenzene (ug/L)	<1	NS	<1	<1	<1	<1	<1
Naphthalene (ug/L)	<1	NS	<1	<1	<1	<1	<1
Acetone (ug/L)	<10	NS	<10	<10	<10	<10	<10
Chloroform (ug/L)	<1	NS	1.9	<1	<1	1.3	<1
Tetrachloroethene (ug/L)	<1	NS	1.1	<1	<1	1.1	<1
TPH-DRO (mg/L)	<0.1	NS	<0.1	<0.1	<0.1	<0.1	<0.1
TPH-GRO (mg/L)	NS	NS	NS	<0.1	<0.1	<0.1	<0.1

MW-18

	5-Jun-12	27-Jul-12	5-Sep-12	1-Oct-12	5-Nov-12	4-Dec-12	7-Jan-13
Benzene (ug/L)	<1	NS	<1	NS	NS	<1	<1
Toluene (ug/L)	<1	NS	<1	NS	NS	<1	<1
Ethylbenzene (ug/L)	<1	NS	<1	NS	NS	<1	<1
Total Xylenes (ug/L)	<2	NS	<2	NS	NS	<2	<2
TOTAL BTEX (ug/L)	<2	NS	<2	NS	NS	<2	<2
Isopropylbenzene (ug/L)	<1	NS	<1	NS	NS	<1	<1
Naphthalene (ug/L)	<1	NS	<1	NS	NS	<1	<1
Acetone (ug/L)	<10	NS	<10	NS	NS	<10	<10
Chloroform (ug/L)	<1	NS	<1	NS	NS	<1	<1
Tetrachloroethene (ug/L)	<1	NS	<1	NS	NS	<1	<1
TPH-DRO (mg/L)	<0.1	NS	<0.1	NS	NS	0.23	<0.1
TPH-GRO (mg/L)	NS	NS	NS	NS	NS	<0.1	<0.1

MW-19

	5-Jun-12	27-Jul-12	5-Sep-12	1-Oct-12	5-Nov-12	4-Dec-12	7-Jan-13
Benzene (ug/L)	<1	NS	<1	<1	<1	<1	<1
Toluene (ug/L)	<1	NS	<1	<1	<1	<1	<1
Ethylbenzene (ug/L)	<1	NS	<1	<1	<1	<1	<1
Total Xylenes (ug/L)	<2	NS	<2	<2	<2	<2	<2
TOTAL BTEX (ug/L)	<2	NS	<2	<2	<2	<2	<2
Isopropylbenzene (ug/L)	<1	NS	<1	<1	<1	1.1	2.0
Naphthalene (ug/L)	<1	NS	<1	<1	<1	<1	5.1
Acetone (ug/L)	<10	NS	<10	<10	<10	<10	<10
Chloroform (ug/L)	<1	NS	<1	<1	2.8	1.8	<1
Tetrachloroethene (ug/L)	<1	NS	<1	1.1	<1	<1	<1
TPH-DRO (mg/L)	<0.1	NS	<0.1	<0.1	<0.1	0.86	<0.1
TPH-GRO (mg/L)	NS	NS	NS	<0.1	<0.1	<0.1	<0.1

MW-20

	5-Jun-12	27-Jul-12	5-Sep-12	1-Oct-12	5-Nov-12	4-Dec-12	7-Jan-13
Benzene (ug/L)	<1	<1	<1	<1	<1	<1	<1
Toluene (ug/L)	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene (ug/L)	<1	<1	<1	<1	<1	<1	<1
Total Xylenes (ug/L)	<2	<2	<2	<2	<2	<2	<2
TOTAL BTEX (ug/L)	<2	<2	<2	<2	<2	<2	<2
Isopropylbenzene (ug/L)	<1	<1	<1	2.2	<1	<1	<1
Naphthalene (ug/L)	<1	<1	<1	<1	<1	<1	2.2
Acetone (ug/L)	<10	<10	<10	<10	<10	<10	<10
Chloroform (ug/L)	<1	<1	1.5	<1	<1	<1	<1
Tetrachloroethene (ug/L)	<1	<1	1.2	<1	<1	<1	<1
TPH-DRO (mg/L)	1.3	1.9	1.8	4.0	2.5	1.9	0.68
TPH-GRO (mg/L)	NS	NS	NS	<0.1	<0.1	<0.1	<0.1

MW-23

	5-Jun-12	27-Jul-12	5-Sep-12	1-Oct-12	5-Nov-12	4-Dec-12	7-Jan-13
Benzene (ug/L)	<1	NS	<1	NS	NS	<1	<1
Toluene (ug/L)	<1	NS	<1	NS	NS	<1	<1
Ethylbenzene (ug/L)	<1	NS	<1	NS	NS	<1	<1
Total Xylenes (ug/L)	<2	NS	<2	NS	NS	<2	<2
TOTAL BTEX (ug/L)	<2	NS	<2	NS	NS	<2	<2
Isopropylbenzene (ug/L)	<1	NS	<1	NS	NS	<1	<1
Naphthalene (ug/L)	<1	NS	<1	NS	NS	<1	<1
Acetone (ug/L)	<10	NS	<10	NS	NS	<10	<10
Chloroform (ug/L)	<1	NS	<1	NS	NS	<1	<1
Tetrachloroethene (ug/L)	<1	NS	<1	NS	NS	<1	<1
TPH-DRO (mg/L)	<0.1	NS	<0.1	NS	NS	11	<0.1
TPH-GRO (mg/L)	NS	NS	NS	NS	NS	<0.1	<0.1

MW-24

	5-Jun-12	27-Jul-12	5-Sep-12	1-Oct-12	5-Nov-12	4-Dec-12	7-Jan-13
Benzene (ug/L)	<1	NS	<1	<1	<1	<1	<1
Toluene (ug/L)	<1	NS	<1	<1	<1	<1	<1
Ethylbenzene (ug/L)	<1	NS	<1	<1	<1	<1	<1
Total Xylenes (ug/L)	<2	NS	<2	<2	<2	<2	<2
TOTAL BTEX (ug/L)	<2	NS	<2	<2	<2	<2	<2
Isopropylbenzene (ug/L)	<1	NS	<1	<1	<1	<1	<1
Naphthalene (ug/L)	<1	NS	<1	<1	<1	<1	<1
Acetone (ug/L)	<10	NS	<10	<10	<10	<10	<10
Chloroform (ug/L)	<1	NS	<1	<1	<1	<1	<1
Tetrachloroethene (ug/L)	<1	NS	<1	<1	<1	<1	<1
TPH-DRO (mg/L)	<0.1	NS	<0.1	<0.1	<0.1	0.25	<0.1
TPH-GRO (mg/L)	NS	NS	NS	<0.1	<0.1	<0.1	<0.1

MW-33

	5-Jun-12	27-Jul-12	5-Sep-12	1-Oct-12	5-Nov-12	4-Dec-12	7-Jan-13
Benzene (ug/L)	<1	NS	<1	<1	<1	<1	<1
Toluene (ug/L)	<1	NS	<1	<1	<1	<1	<1
Ethylbenzene (ug/L)	<1	NS	<1	<1	<1	<1	<1
Total Xylenes (ug/L)	<2	NS	<2	<2	<2	<2	<2
TOTAL BTEX (ug/L)	<2	NS	<2	<2	<2	<2	<2
Isopropylbenzene (ug/L)	<1	NS	<1	<1	<1	<1	<1
Naphthalene (ug/L)	<1	NS	<1	<1	<1	<1	<1
Acetone (ug/L)	<10	NS	<10	<10	<10	<10	<10
Chloroform (ug/L)	<1	NS	<1	<1	<1	<1	<1
Tetrachloroethene (ug/L)	<1	NS	<1	<1	<1	<1	<1
TPH-DRO (mg/L)	<0.1	NS	<0.1	<0.1	<0.1	<0.1	<0.1
TPH-GRO (mg/L)	NS	NS	NS	<0.1	<0.1	<0.1	<0.1

MW-34

	5-Jun-12	27-Jul-12	5-Sep-12	1-Oct-12	5-Nov-12	4-Dec-12	7-Jan-13
Benzene (ug/L)	<1	<1	<1	<1	<1	<1	<1
Toluene (ug/L)	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene (ug/L)	<1	<1	<1	<1	<1	<1	<1
Total Xylenes (ug/L)	<2	<2	<2	<2	<2	<2	<2
TOTAL BTEX (ug/L)	<2	<2	<2	<2	<2	<2	<2
Isopropylbenzene (ug/L)	<1	<1	<1	<1	<1	<1	<1
Naphthalene (ug/L)	<1	<1	<1	<1	<1	<1	<1
Acetone (ug/L)	<10	<10	<10	<10	<10	<10	<10
Chloroform (ug/L)	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene (ug/L)	<1	<1	<1	<1	<1	<1	<1
TPH-DRO (mg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH-GRO (mg/L)	NS	NS	NS	<0.1	<0.1	<0.1	<0.1

MW-35

	5-Jun-12	27-Jul-12	5-Sep-12	1-Oct-12	5-Nov-12	4-Dec-12	7-Jan-13
Benzene (ug/L)	<1	NS	<1	<1	<1	<1	<1
Toluene (ug/L)	<1	NS	<1	<1	<1	<1	<1
Ethylbenzene (ug/L)	<1	NS	<1	<1	<1	<1	<1
Total Xylenes (ug/L)	<2	NS	<2	<2	<2	<2	<2
TOTAL BTEX (ug/L)	<2	NS	<2	<2	<2	<2	<2
Isopropylbenzene (ug/L)	<1	NS	<1	<1	<1	<1	<1
Naphthalene (ug/L)	<1	NS	<1	<1	<1	<1	<1
Acetone (ug/L)	<10	NS	<10	<10	<10	<10	<10
Chloroform (ug/L)	<1	NS	<1	<1	<1	<1	<1
Tetrachloroethene (ug/L)	<1	NS	<1	<1	<1	<1	<1
TPH-DRO (mg/L)	<0.1	NS	<0.1	<0.1	<0.1	<0.1	<0.1
TPH-GRO (mg/L)	NS	NS	NS	<0.1	<0.1	<0.1	<0.1

Table 1. Summary of water quality data for selected downgradient monitoring wells at Chester River Hospital Center, Chestertown, Maryland.

APPENDIX A

Well Gauging Reports

&

Field Reports

PETROLEUM PRODUCT / WATER - LEVEL DATA SHEET

W.O. #: 2781
PROJECT: Chester River Hospital Center
LOCATION: Chestertown, Maryland

DATE: 7-Jan-2013
WEATHER: 40 F
COLLECTED BY: TL, TT
ENTERED BY: TL

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		46.13		10.92	10.92	
MW-2	Lip of Casing	56.37		45.54		10.83	10.83	
MW-3	Lip of Casing	50.55		39.91		10.64	10.64	
MW-4	Lip of Casing	53.40		42.62		10.78	10.78	
MW-5	Lip of Casing	61.08		50.11		10.97	10.97	
MW-6	Lip of Casing	--------	--------	--------	--------	--------	--------	Well destroyed in building expansion Nov 2000
MW-7	Lip of Casing	--------	--------	--------	--------	--------	--------	Well destroyed in building expansion Nov 2000
MW-8	Lip of Casing	47.60	37.50	37.50	0.00	10.10	10.10	sheen
MW-9	Lip of Casing			36.18				
MW-10	Lip of Casing	--------	--------	--------	--------	--------	--------	Well abandoned Nov 2012
MW-10R	Lip of Casing							Well installed Nov 2012
MW-11	Lip of Casing	41.49		31.95		9.54	9.54	
MW-12	Lip of Casing	44.46		34.49		9.97	9.97	
MW-13	Lip of Casing	41.70		32.39		9.31	9.31	
MW-14	Lip of Casing	41.38	32.02	32.02	0.00	9.36	9.36	film
MW-15	Lip of Casing	35.01		26.55		8.46	8.46	
MW-16	Lip of Casing	35.55		27.10		8.45	8.45	sampled
MW-17	Lip of Casing	35.49		26.98		8.51	8.51	
MW-18	Lip of Casing	35.82		28.16		7.66	7.66	sampled
MW-19	Lip of Casing	38.85		29.82		9.03	9.03	sampled
MW-20	Lip of Casing	38.72		29.68		9.04	9.04	sampled
MW-21	Lip of Casing	38.55		29.50		9.05	9.05	
MW-22	Lip of Casing	47.04		37.15		9.89	9.89	
MW-23	Lip of Casing	35.95		29.28		6.67	6.67	sampled
MW-24	Lip of Casing	36.56		28.16		8.40	8.40	sampled
MW-25	Lip of Casing	36.10		27.97		8.13	8.13	
MW-27	Lip of Casing	--------	--------	--------	--------	--------	--------	Well abandoned Nov 2006
MW-28	Lip of Casing	35.90		27.90		8.00	8.00	
MW-29	Lip of Casing	35.15		27.82		7.33	7.33	
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			37.35				Well installed Nov 2012
MW-32	Lip of Casing	47.41		37.68		9.73	9.73	
MW-33	Lip of Casing	36.52		27.73		8.79	8.79	sampled
MW-34	Lip of Casing	36.64		27.86		8.78	8.78	sampled
MW-35	Lip of Casing	38.62		29.55		9.07	9.07	sampled
MW-37	Lip of Casing	50.54	39.89	39.89	0.00	10.65	10.65	sheen
MW-38	Lip of Casing	--------	--------	--------	--------	--------	--------	pump stuck in well - not able to gauge
RW-1B	Lip of Casing	46.71		36.57		10.14	10.14	
RW-2D	Lip of Casing	40.54	31.16	31.16	0.00	9.38	9.38	film
RW-3B	Lip of Casing	39.45	30.11	30.14	0.03	9.34	9.33	
MW-40	Lip of Casing	48.98	39.00	39.00	0.00	9.98	9.98	film
MW-41	Lip of Casing	42.92		33.26		9.66	9.66	
RW-4	Lip of Casing	48.18	38.24	38.24	0.00	9.94	9.94	sheen
RW-5	Lip of Casing	43.34	33.52	33.52	0.00	9.82	9.82	sheen
RW-6	Lip of Casing	47.22	37.01	37.01	0.00	10.21	10.21	sheen
RW-2A	Lip of Casing	--------	--------	--------	--------	--------	--------	Well abandoned Mar 2008
RW-2B	Lip of Casing	--------	--------	--------	--------	--------	--------	Well abandoned Mar 2008
MP-2B	Lip of Casing		30.36	30.36				film
RW-2C	Lip of Casing	--------	--------	--------	--------	--------	--------	Well abandoned Sep 2003
RW-3A	Lip of Casing	--------	--------	--------	--------	--------	--------	Well abandoned Sep 2003
MP-3A	Lip of Casing		30.19	30.19				film
MW-42	Lip of Casing		36.15	36.15	0.00			sheen
MW-43	Lip of Casing	48.03		38.10		9.93	9.93	
MW-44	Lip of Casing	47.46		37.55		9.91	9.91	
MW-45	Lip of Casing	40.91		31.55		9.36	9.36	
MW-46	Lip of Casing	41.08	31.72	31.72	0.00	9.36	9.36	sheen
MW-47	Lip of Casing	40.74	31.39	31.44	0.05	9.35	9.34	
IW-1	Lip of Casing	--------		38.25		--------	--------	

Project Name:	**Chester River Hospital Center**	Date:	**7-Jan-2013**
Project #:	**2781**	Time on - site:	**8:10 AM**
Location:	**Chestertown, Maryland**	Weather:	**40 F**
Personnel present at site:	**TL, TT**	Vehicle:	**98 Ranger**

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

Scheduled Activities	Checklist	yes	no	n/a	Exceptions (with explanation and comments)
Routine Monitoring	Measured water & petroleum levels	☑	☐	☐	
	Pumped petroleum from wells	☐	☑	☐	
	Emptied petro trap	☐	☐	☑	
	Installed, replaced, or inspected wics	☑	☐	☐	MW-47 and RW-3B
	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)	☑	☐	☐	Monthly sampling of MW-16, MW-19, MW-20, MW-24, MW-3 MW-34 and MW-35; also sampled MW-18 and MW-23
	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	☑	☐	☐	

Comments Observations

Monthly gauging of all wells
Monthly sampling of MW-16, MW-19, MW-20, MW-24, MW-33, MW-34 and MW-35. MW-15 was not sampled because a vehicle parked over the well after gauging it and did not move for the rest of the day. Also sampled MW-18 and MW-23 because TPH-DRO concentrations were found in the samples collected from these wells in December.

APPENDIX B

Laboratory Analytical Reports

Analytical Report for

Earth Data, Inc

Certificate of Analysis No.: 13010808

Project Manager: Andrew Bullen
Project Name : Chester River Hospital Center
Project Location: Chestertown, MD
Project ID : 2781

January 15, 2013

Phase Separation Science, Inc.
6630 Baltimore National Pike
Baltimore, MD 21228
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PHASE SEPARATION SCIENCE, INC.

January 15, 2013

Andrew Bullen
Earth Data, Inc
131 Comet Drive
Centerville, MD 21617

Reference: PSS Work Order(s) No: **13010808**
Project Name: Chester River Hospital Center
Project Location: Chestertown, MD
Project ID.: 2781

Dear Andrew Bullen :

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 **13010808**.

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 February 12, 2013. 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

Dan Prucnal
Laboratory Manager

Sample Summary

Client Name: Earth Data, Inc

Project Name: Chester River Hospital Center

Work Order Number(s): 13010808

Project ID: 2781

The following samples were received under chain of custody by Phase Separation Science (PSS) on 01/08/2013 at 12:55 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
13010808-001	MW-16	GROUND WATER	01/07/13 12:02
13010808-002	MW-18	GROUND WATER	01/07/13 11:12
13010808-003	MW-19	GROUND WATER	01/07/13 13:00
13010808-004	MW-20	GROUND WATER	01/07/13 13:12
13010808-005	MW-24	GROUND WATER	01/07/13 11:48
13010808-006	MW-23	GROUND WATER	01/07/13 11:00
13010808-007	MW-33	GROUND WATER	01/07/13 12:10
13010808-008	MW-34	GROUND WATER	01/07/13 12:23
13010808-009	MW-35	GROUND WATER	01/07/13 12:45

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. The following analytical results are never reported on a dry weight basis: 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. The analyses of chlorine, pH, dissolved oxygen, temperature and sulfite for non-potable water samples tested for compliance for Virginia Pollution Discharge Elimination System (VDPES) permits and Virginia Pollutant Abatement (VPA) permits, have a maximum holding time of 15 minutes established by 40CFR136.3.

Standard Flags/Abbreviations:

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

Case Narrative Summary

Client Name: Earth Data, Inc

Project Name: Chester River Hospital Center

Work Order Number(s): 13010808
Project ID: 2781

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.

Sample Receipt:

All sample receipt conditions were acceptable.

Sample Preparation:

Total Petroleum Hydrocarbons - DRO

Preparation Batch: 44309

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

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

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 13010808

Earth Data, Inc, Centerville, MD

January 15, 2013

Project Name: Chester River Hospital Center
Project Location: Chestertown, MD
Project ID: 2781

Sample ID: MW-16 **Date/Time Sampled: 01/07/2013 12:02** **PSS Sample ID: 13010808-001**
Matrix: GROUND WATER **Date/Time Received: 01/08/2013 12:55**

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	01/09/13	01/09/13 12:10	1040

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

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	01/08/13	01/08/13 16:54	1035

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CERTIFICATE OF ANALYSIS

No: 13010808

Earth Data, Inc, Centerville, MD

January 15, 2013

Project Name: Chester River Hospital Center
Project Location: Chestertown, MD
Project ID: 2781

Sample ID: MW-16 **Date/Time Sampled: 01/07/2013 12:02** **PSS Sample ID: 13010808-001**
Matrix: GROUND WATER **Date/Time Received: 01/08/2013 12:55**

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

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	01/10/13	01/10/13 17:39	1011
Chloromethane	ND	ug/L	1.0		1	01/10/13	01/10/13 17:39	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 17:39	1011
Vinyl Chloride	ND	ug/L	1.0		1	01/10/13	01/10/13 17:39	1011
tert-Butyl alcohol	ND	ug/L	20		1	01/10/13	01/10/13 17:39	1011
Bromomethane	ND	ug/L	1.0		1	01/10/13	01/10/13 17:39	1011
Chloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 17:39	1011
Acetone	ND	ug/L	10		1	01/10/13	01/10/13 17:39	1011
Cyclohexane	ND	ug/L	10		1	01/10/13	01/10/13 17:39	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	01/10/13	01/10/13 17:39	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	01/10/13	01/10/13 17:39	1011
Methylene Chloride	ND	ug/L	1.0		1	01/10/13	01/10/13 17:39	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	01/10/13	01/10/13 17:39	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	01/10/13	01/10/13 17:39	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 17:39	1011
2-Butanone (MEK)	ND	ug/L	10		1	01/10/13	01/10/13 17:39	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	01/10/13	01/10/13 17:39	1011
Bromochloromethane	ND	ug/L	1.0		1	01/10/13	01/10/13 17:39	1011
Chloroform	ND	ug/L	1.0		1	01/10/13	01/10/13 17:39	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 17:39	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 17:39	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	01/10/13	01/10/13 17:39	1011
Benzene	ND	ug/L	1.0		1	01/10/13	01/10/13 17:39	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	01/10/13	01/10/13 17:39	1011
Methyl Acetate	ND	ug/L	10		1	01/10/13	01/10/13 17:39	1011
Methylcyclohexane	ND	ug/L	10		1	01/10/13	01/10/13 17:39	1011
Trichloroethene	ND	ug/L	1.0		1	01/10/13	01/10/13 17:39	1011
Carbon Disulfide	ND	ug/L	10		1	01/10/13	01/10/13 17:39	1011
Bromodichloromethane	ND	ug/L	1.0		1	01/10/13	01/10/13 17:39	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	01/10/13	01/10/13 17:39	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 13010808

Earth Data, Inc, Centerville, MD

January 15, 2013

Project Name: Chester River Hospital Center
Project Location: Chestertown, MD
Project ID: 2781

Sample ID: MW-16 **Date/Time Sampled: 01/07/2013 12:02** **PSS Sample ID: 13010808-001**
Matrix: GROUND WATER **Date/Time Received: 01/08/2013 12:55**

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

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	01/10/13	01/10/13 17:39	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	01/10/13	01/10/13 17:39	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 17:39	1011
Toluene	ND	ug/L	1.0		1	01/10/13	01/10/13 17:39	1011
2-Hexanone	ND	ug/L	10		1	01/10/13	01/10/13 17:39	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	01/10/13	01/10/13 17:39	1011
Dibromochloromethane	ND	ug/L	1.0		1	01/10/13	01/10/13 17:39	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	01/10/13	01/10/13 17:39	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	01/10/13	01/10/13 17:39	1011
Diisopropyl ether	ND	ug/L	10		1	01/10/13	01/10/13 17:39	1011
tert-Amyl methyl ether	ND	ug/L	10		1	01/10/13	01/10/13 17:39	1011
tert-Amyl alcohol	ND	ug/L	20		1	01/10/13	01/10/13 17:39	1011
Bromoform	ND	ug/L	5.0		1	01/10/13	01/10/13 17:39	1011
Tetrachloroethene	ND	ug/L	1.0		1	01/10/13	01/10/13 17:39	1011
Chlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 17:39	1011
Ethylbenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 17:39	1011
m,p-Xylenes	ND	ug/L	2.0		1	01/10/13	01/10/13 17:39	1011
Styrene	ND	ug/L	1.0		1	01/10/13	01/10/13 17:39	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 17:39	1011
o-Xylene	ND	ug/L	1.0		1	01/10/13	01/10/13 17:39	1011
Isopropylbenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 17:39	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 17:39	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 17:39	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 17:39	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	01/10/13	01/10/13 17:39	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 17:39	1011
Naphthalene	ND	ug/L	1.0		1	01/10/13	01/10/13 17:39	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 17:39	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 13010808

Earth Data, Inc, Centerville, MD

January 15, 2013

Project Name: Chester River Hospital Center
Project Location: Chestertown, MD
Project ID: 2781

Sample ID: MW-18 **Date/Time Sampled: 01/07/2013 11:12** **PSS Sample ID: 13010808-002**
Matrix: GROUND WATER **Date/Time Received: 01/08/2013 12:55**

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	01/09/13	01/09/13 12:33	1040

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

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	01/08/13	01/08/13 17:21	1035

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Project Name: Chester River Hospital Center
Project Location: Chestertown, MD
Project ID: 2781

Sample ID: MW-18 **Date/Time Sampled: 01/07/2013 11:12** **PSS Sample ID: 13010808-002**
Matrix: GROUND WATER **Date/Time Received: 01/08/2013 12:55**

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

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	01/10/13	01/10/13 18:08	1011
Chloromethane	ND	ug/L	1.0		1	01/10/13	01/10/13 18:08	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 18:08	1011
Vinyl Chloride	ND	ug/L	1.0		1	01/10/13	01/10/13 18:08	1011
tert-Butyl alcohol	ND	ug/L	20		1	01/10/13	01/10/13 18:08	1011
Bromomethane	ND	ug/L	1.0		1	01/10/13	01/10/13 18:08	1011
Chloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 18:08	1011
Acetone	ND	ug/L	10		1	01/10/13	01/10/13 18:08	1011
Cyclohexane	ND	ug/L	10		1	01/10/13	01/10/13 18:08	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	01/10/13	01/10/13 18:08	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	01/10/13	01/10/13 18:08	1011
Methylene Chloride	ND	ug/L	1.0		1	01/10/13	01/10/13 18:08	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	01/10/13	01/10/13 18:08	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	01/10/13	01/10/13 18:08	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 18:08	1011
2-Butanone (MEK)	ND	ug/L	10		1	01/10/13	01/10/13 18:08	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	01/10/13	01/10/13 18:08	1011
Bromochloromethane	ND	ug/L	1.0		1	01/10/13	01/10/13 18:08	1011
Chloroform	ND	ug/L	1.0		1	01/10/13	01/10/13 18:08	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 18:08	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 18:08	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	01/10/13	01/10/13 18:08	1011
Benzene	ND	ug/L	1.0		1	01/10/13	01/10/13 18:08	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	01/10/13	01/10/13 18:08	1011
Methyl Acetate	ND	ug/L	10		1	01/10/13	01/10/13 18:08	1011
Methylcyclohexane	ND	ug/L	10		1	01/10/13	01/10/13 18:08	1011
Trichloroethene	ND	ug/L	1.0		1	01/10/13	01/10/13 18:08	1011
Carbon Disulfide	ND	ug/L	10		1	01/10/13	01/10/13 18:08	1011
Bromodichloromethane	ND	ug/L	1.0		1	01/10/13	01/10/13 18:08	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	01/10/13	01/10/13 18:08	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 13010808

Earth Data, Inc, Centerville, MD

January 15, 2013

Project Name: Chester River Hospital Center
Project Location: Chestertown, MD
Project ID: 2781

Sample ID: MW-18 **Date/Time Sampled: 01/07/2013 11:12** **PSS Sample ID: 13010808-002**
Matrix: GROUND WATER **Date/Time Received: 01/08/2013 12:55**

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

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	01/10/13	01/10/13 18:08	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	01/10/13	01/10/13 18:08	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 18:08	1011
Toluene	ND	ug/L	1.0		1	01/10/13	01/10/13 18:08	1011
2-Hexanone	ND	ug/L	10		1	01/10/13	01/10/13 18:08	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	01/10/13	01/10/13 18:08	1011
Dibromochloromethane	ND	ug/L	1.0		1	01/10/13	01/10/13 18:08	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	01/10/13	01/10/13 18:08	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	01/10/13	01/10/13 18:08	1011
Diisopropyl ether	ND	ug/L	10		1	01/10/13	01/10/13 18:08	1011
tert-Amyl methyl ether	ND	ug/L	10		1	01/10/13	01/10/13 18:08	1011
tert-Amyl alcohol	ND	ug/L	20		1	01/10/13	01/10/13 18:08	1011
Bromoform	ND	ug/L	5.0		1	01/10/13	01/10/13 18:08	1011
Tetrachloroethene	ND	ug/L	1.0		1	01/10/13	01/10/13 18:08	1011
Chlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 18:08	1011
Ethylbenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 18:08	1011
m,p-Xylenes	ND	ug/L	2.0		1	01/10/13	01/10/13 18:08	1011
Styrene	ND	ug/L	1.0		1	01/10/13	01/10/13 18:08	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 18:08	1011
o-Xylene	ND	ug/L	1.0		1	01/10/13	01/10/13 18:08	1011
Isopropylbenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 18:08	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 18:08	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 18:08	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 18:08	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	01/10/13	01/10/13 18:08	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 18:08	1011
Naphthalene	ND	ug/L	1.0		1	01/10/13	01/10/13 18:08	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 18:08	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 13010808

Earth Data, Inc, Centerville, MD

January 15, 2013

Project Name: Chester River Hospital Center
Project Location: Chestertown, MD
Project ID: 2781

Sample ID: MW-19 **Date/Time Sampled: 01/07/2013 13:00** **PSS Sample ID: 13010808-003**
Matrix: GROUND WATER **Date/Time Received: 01/08/2013 12:55**

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	01/09/13	01/09/13 12:56	1040

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

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	01/08/13	01/08/13 17:49	1035

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 13010808

Earth Data, Inc, Centerville, MD

January 15, 2013

Project Name: Chester River Hospital Center
Project Location: Chestertown, MD
Project ID: 2781

Sample ID: MW-19 **Date/Time Sampled: 01/07/2013 13:00** **PSS Sample ID: 13010808-003**
Matrix: GROUND WATER **Date/Time Received: 01/08/2013 12:55**

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

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	01/10/13	01/10/13 18:36	1011
Chloromethane	ND	ug/L	1.0		1	01/10/13	01/10/13 18:36	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 18:36	1011
Vinyl Chloride	ND	ug/L	1.0		1	01/10/13	01/10/13 18:36	1011
tert-Butyl alcohol	ND	ug/L	20		1	01/10/13	01/10/13 18:36	1011
Bromomethane	ND	ug/L	1.0		1	01/10/13	01/10/13 18:36	1011
Chloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 18:36	1011
Acetone	ND	ug/L	10		1	01/10/13	01/10/13 18:36	1011
Cyclohexane	ND	ug/L	10		1	01/10/13	01/10/13 18:36	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	01/10/13	01/10/13 18:36	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	01/10/13	01/10/13 18:36	1011
Methylene Chloride	ND	ug/L	1.0		1	01/10/13	01/10/13 18:36	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	01/10/13	01/10/13 18:36	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	01/10/13	01/10/13 18:36	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 18:36	1011
2-Butanone (MEK)	ND	ug/L	10		1	01/10/13	01/10/13 18:36	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	01/10/13	01/10/13 18:36	1011
Bromochloromethane	ND	ug/L	1.0		1	01/10/13	01/10/13 18:36	1011
Chloroform	ND	ug/L	1.0		1	01/10/13	01/10/13 18:36	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 18:36	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 18:36	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	01/10/13	01/10/13 18:36	1011
Benzene	ND	ug/L	1.0		1	01/10/13	01/10/13 18:36	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	01/10/13	01/10/13 18:36	1011
Methyl Acetate	ND	ug/L	10		1	01/10/13	01/10/13 18:36	1011
Methylcyclohexane	ND	ug/L	10		1	01/10/13	01/10/13 18:36	1011
Trichloroethene	ND	ug/L	1.0		1	01/10/13	01/10/13 18:36	1011
Carbon Disulfide	ND	ug/L	10		1	01/10/13	01/10/13 18:36	1011
Bromodichloromethane	ND	ug/L	1.0		1	01/10/13	01/10/13 18:36	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	01/10/13	01/10/13 18:36	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 13010808

Earth Data, Inc, Centerville, MD

January 15, 2013

Project Name: Chester River Hospital Center
Project Location: Chestertown, MD
Project ID: 2781

Sample ID: MW-19 **Date/Time Sampled: 01/07/2013 13:00** **PSS Sample ID: 13010808-003**
Matrix: GROUND WATER **Date/Time Received: 01/08/2013 12:55**

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

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	01/10/13	01/10/13 18:36	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	01/10/13	01/10/13 18:36	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 18:36	1011
Toluene	ND	ug/L	1.0		1	01/10/13	01/10/13 18:36	1011
2-Hexanone	ND	ug/L	10		1	01/10/13	01/10/13 18:36	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	01/10/13	01/10/13 18:36	1011
Dibromochloromethane	ND	ug/L	1.0		1	01/10/13	01/10/13 18:36	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	01/10/13	01/10/13 18:36	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	01/10/13	01/10/13 18:36	1011
Diisopropyl ether	ND	ug/L	10		1	01/10/13	01/10/13 18:36	1011
tert-Amyl methyl ether	ND	ug/L	10		1	01/10/13	01/10/13 18:36	1011
tert-Amyl alcohol	ND	ug/L	20		1	01/10/13	01/10/13 18:36	1011
Bromoform	ND	ug/L	5.0		1	01/10/13	01/10/13 18:36	1011
Tetrachloroethene	ND	ug/L	1.0		1	01/10/13	01/10/13 18:36	1011
Chlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 18:36	1011
Ethylbenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 18:36	1011
m,p-Xylenes	ND	ug/L	2.0		1	01/10/13	01/10/13 18:36	1011
Styrene	ND	ug/L	1.0		1	01/10/13	01/10/13 18:36	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 18:36	1011
o-Xylene	ND	ug/L	1.0		1	01/10/13	01/10/13 18:36	1011
Isopropylbenzene	**2.0**	ug/L	1.0		1	01/10/13	01/10/13 18:36	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 18:36	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 18:36	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 18:36	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	01/10/13	01/10/13 18:36	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 18:36	1011
Naphthalene	**5.1**	ug/L	1.0		1	01/10/13	01/10/13 18:36	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 18:36	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 13010808

Earth Data, Inc, Centerville, MD

January 15, 2013

Project Name: Chester River Hospital Center
Project Location: Chestertown, MD
Project ID: 2781

Sample ID: MW-20 **Date/Time Sampled: 01/07/2013 13:12** **PSS Sample ID: 13010808-004**
Matrix: GROUND WATER **Date/Time Received: 01/08/2013 12:55**

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)	**0.68**	mg/L	0.10		1	01/09/13	01/09/13 16:48	1040

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

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	01/08/13	01/08/13 18:16	1035

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 13010808

Earth Data, Inc, Centerville, MD

January 15, 2013

Project Name: Chester River Hospital Center
Project Location: Chestertown, MD
Project ID: 2781

Sample ID: MW-20 **Date/Time Sampled: 01/07/2013 13:12** **PSS Sample ID: 13010808-004**
Matrix: GROUND WATER **Date/Time Received: 01/08/2013 12:55**

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

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	01/10/13	01/10/13 19:04	1011
Chloromethane	ND	ug/L	1.0		1	01/10/13	01/10/13 19:04	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 19:04	1011
Vinyl Chloride	ND	ug/L	1.0		1	01/10/13	01/10/13 19:04	1011
tert-Butyl alcohol	ND	ug/L	20		1	01/10/13	01/10/13 19:04	1011
Bromomethane	ND	ug/L	1.0		1	01/10/13	01/10/13 19:04	1011
Chloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 19:04	1011
Acetone	ND	ug/L	10		1	01/10/13	01/10/13 19:04	1011
Cyclohexane	ND	ug/L	10		1	01/10/13	01/10/13 19:04	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	01/10/13	01/10/13 19:04	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:04	1011
Methylene Chloride	ND	ug/L	1.0		1	01/10/13	01/10/13 19:04	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:04	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	01/10/13	01/10/13 19:04	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 19:04	1011
2-Butanone (MEK)	ND	ug/L	10		1	01/10/13	01/10/13 19:04	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:04	1011
Bromochloromethane	ND	ug/L	1.0		1	01/10/13	01/10/13 19:04	1011
Chloroform	ND	ug/L	1.0		1	01/10/13	01/10/13 19:04	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 19:04	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 19:04	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	01/10/13	01/10/13 19:04	1011
Benzene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:04	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	01/10/13	01/10/13 19:04	1011
Methyl Acetate	ND	ug/L	10		1	01/10/13	01/10/13 19:04	1011
Methylcyclohexane	ND	ug/L	10		1	01/10/13	01/10/13 19:04	1011
Trichloroethene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:04	1011
Carbon Disulfide	ND	ug/L	10		1	01/10/13	01/10/13 19:04	1011
Bromodichloromethane	ND	ug/L	1.0		1	01/10/13	01/10/13 19:04	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:04	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 13010808

Earth Data, Inc, Centerville, MD

January 15, 2013

Project Name: Chester River Hospital Center
Project Location: Chestertown, MD
Project ID: 2781

Sample ID: MW-20 **Date/Time Sampled: 01/07/2013 13:12** **PSS Sample ID: 13010808-004**
Matrix: GROUND WATER **Date/Time Received: 01/08/2013 12:55**

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

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	01/10/13	01/10/13 19:04	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:04	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 19:04	1011
Toluene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:04	1011
2-Hexanone	ND	ug/L	10		1	01/10/13	01/10/13 19:04	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	01/10/13	01/10/13 19:04	1011
Dibromochloromethane	ND	ug/L	1.0		1	01/10/13	01/10/13 19:04	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	01/10/13	01/10/13 19:04	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	01/10/13	01/10/13 19:04	1011
Diisopropyl ether	ND	ug/L	10		1	01/10/13	01/10/13 19:04	1011
tert-Amyl methyl ether	ND	ug/L	10		1	01/10/13	01/10/13 19:04	1011
tert-Amyl alcohol	ND	ug/L	20		1	01/10/13	01/10/13 19:04	1011
Bromoform	ND	ug/L	5.0		1	01/10/13	01/10/13 19:04	1011
Tetrachloroethene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:04	1011
Chlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:04	1011
Ethylbenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:04	1011
m,p-Xylenes	ND	ug/L	2.0		1	01/10/13	01/10/13 19:04	1011
Styrene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:04	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 19:04	1011
o-Xylene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:04	1011
Isopropylbenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:04	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:04	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:04	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:04	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	01/10/13	01/10/13 19:04	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:04	1011
Naphthalene	**2.2**	ug/L	1.0		1	01/10/13	01/10/13 19:04	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:04	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 13010808

Earth Data, Inc, Centerville, MD

January 15, 2013

Project Name: Chester River Hospital Center
Project Location: Chestertown, MD
Project ID: 2781

Sample ID: MW-24 **Date/Time Sampled: 01/07/2013 11:48** **PSS Sample ID: 13010808-005**
Matrix: GROUND WATER **Date/Time Received: 01/08/2013 12:55**

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	01/09/13	01/09/13 16:48	1040

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

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	01/08/13	01/08/13 18:43	1035

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 13010808

Earth Data, Inc, Centerville, MD

January 15, 2013

Project Name: Chester River Hospital Center
Project Location: Chestertown, MD
Project ID: 2781

Sample ID: MW-24 **Date/Time Sampled: 01/07/2013 11:48** **PSS Sample ID: 13010808-005**
Matrix: GROUND WATER **Date/Time Received: 01/08/2013 12:55**

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

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	01/10/13	01/10/13 19:32	1011
Chloromethane	ND	ug/L	1.0		1	01/10/13	01/10/13 19:32	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 19:32	1011
Vinyl Chloride	ND	ug/L	1.0		1	01/10/13	01/10/13 19:32	1011
tert-Butyl alcohol	ND	ug/L	20		1	01/10/13	01/10/13 19:32	1011
Bromomethane	ND	ug/L	1.0		1	01/10/13	01/10/13 19:32	1011
Chloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 19:32	1011
Acetone	ND	ug/L	10		1	01/10/13	01/10/13 19:32	1011
Cyclohexane	ND	ug/L	10		1	01/10/13	01/10/13 19:32	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	01/10/13	01/10/13 19:32	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:32	1011
Methylene Chloride	ND	ug/L	1.0		1	01/10/13	01/10/13 19:32	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:32	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	01/10/13	01/10/13 19:32	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 19:32	1011
2-Butanone (MEK)	ND	ug/L	10		1	01/10/13	01/10/13 19:32	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:32	1011
Bromochloromethane	ND	ug/L	1.0		1	01/10/13	01/10/13 19:32	1011
Chloroform	ND	ug/L	1.0		1	01/10/13	01/10/13 19:32	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 19:32	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 19:32	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	01/10/13	01/10/13 19:32	1011
Benzene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:32	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	01/10/13	01/10/13 19:32	1011
Methyl Acetate	ND	ug/L	10		1	01/10/13	01/10/13 19:32	1011
Methylcyclohexane	ND	ug/L	10		1	01/10/13	01/10/13 19:32	1011
Trichloroethene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:32	1011
Carbon Disulfide	ND	ug/L	10		1	01/10/13	01/10/13 19:32	1011
Bromodichloromethane	ND	ug/L	1.0		1	01/10/13	01/10/13 19:32	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:32	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 13010808

Earth Data, Inc, Centerville, MD

January 15, 2013

Project Name: Chester River Hospital Center
Project Location: Chestertown, MD
Project ID: 2781

Sample ID: MW-24 **Date/Time Sampled: 01/07/2013 11:48** **PSS Sample ID: 13010808-005**
Matrix: GROUND WATER **Date/Time Received: 01/08/2013 12:55**

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

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	01/10/13	01/10/13 19:32	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:32	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 19:32	1011
Toluene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:32	1011
2-Hexanone	ND	ug/L	10		1	01/10/13	01/10/13 19:32	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	01/10/13	01/10/13 19:32	1011
Dibromochloromethane	ND	ug/L	1.0		1	01/10/13	01/10/13 19:32	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	01/10/13	01/10/13 19:32	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	01/10/13	01/10/13 19:32	1011
Diisopropyl ether	ND	ug/L	10		1	01/10/13	01/10/13 19:32	1011
tert-Amyl methyl ether	ND	ug/L	10		1	01/10/13	01/10/13 19:32	1011
tert-Amyl alcohol	ND	ug/L	20		1	01/10/13	01/10/13 19:32	1011
Bromoform	ND	ug/L	5.0		1	01/10/13	01/10/13 19:32	1011
Tetrachloroethene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:32	1011
Chlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:32	1011
Ethylbenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:32	1011
m,p-Xylenes	ND	ug/L	2.0		1	01/10/13	01/10/13 19:32	1011
Styrene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:32	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 19:32	1011
o-Xylene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:32	1011
Isopropylbenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:32	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:32	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:32	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:32	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	01/10/13	01/10/13 19:32	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:32	1011
Naphthalene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:32	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:32	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 13010808

Earth Data, Inc, Centerville, MD

January 15, 2013

Project Name: Chester River Hospital Center
Project Location: Chestertown, MD
Project ID: 2781

Sample ID: MW-23 **Date/Time Sampled: 01/07/2013 11:00** **PSS Sample ID: 13010808-006**
Matrix: GROUND WATER **Date/Time Received: 01/08/2013 12:55**

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	01/09/13	01/09/13 17:11	1040

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

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	01/08/13	01/08/13 19:10	1035

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CERTIFICATE OF ANALYSIS

No: 13010808

Earth Data, Inc, Centerville, MD

January 15, 2013

Project Name: Chester River Hospital Center
Project Location: Chestertown, MD
Project ID: 2781

Sample ID: MW-23 **Date/Time Sampled: 01/07/2013 11:00** **PSS Sample ID: 13010808-006**
Matrix: GROUND WATER **Date/Time Received: 01/08/2013 12:55**

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

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	01/10/13	01/10/13 19:59	1011
Chloromethane	ND	ug/L	1.0		1	01/10/13	01/10/13 19:59	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 19:59	1011
Vinyl Chloride	ND	ug/L	1.0		1	01/10/13	01/10/13 19:59	1011
tert-Butyl alcohol	ND	ug/L	20		1	01/10/13	01/10/13 19:59	1011
Bromomethane	ND	ug/L	1.0		1	01/10/13	01/10/13 19:59	1011
Chloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 19:59	1011
Acetone	ND	ug/L	10		1	01/10/13	01/10/13 19:59	1011
Cyclohexane	ND	ug/L	10		1	01/10/13	01/10/13 19:59	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	01/10/13	01/10/13 19:59	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:59	1011
Methylene Chloride	ND	ug/L	1.0		1	01/10/13	01/10/13 19:59	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:59	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	01/10/13	01/10/13 19:59	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 19:59	1011
2-Butanone (MEK)	ND	ug/L	10		1	01/10/13	01/10/13 19:59	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:59	1011
Bromochloromethane	ND	ug/L	1.0		1	01/10/13	01/10/13 19:59	1011
Chloroform	ND	ug/L	1.0		1	01/10/13	01/10/13 19:59	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 19:59	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 19:59	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	01/10/13	01/10/13 19:59	1011
Benzene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:59	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	01/10/13	01/10/13 19:59	1011
Methyl Acetate	ND	ug/L	10		1	01/10/13	01/10/13 19:59	1011
Methylcyclohexane	ND	ug/L	10		1	01/10/13	01/10/13 19:59	1011
Trichloroethene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:59	1011
Carbon Disulfide	ND	ug/L	10		1	01/10/13	01/10/13 19:59	1011
Bromodichloromethane	ND	ug/L	1.0		1	01/10/13	01/10/13 19:59	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:59	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 13010808

Earth Data, Inc, Centerville, MD

January 15, 2013

Project Name: Chester River Hospital Center
Project Location: Chestertown, MD
Project ID: 2781

Sample ID: MW-23 **Date/Time Sampled: 01/07/2013 11:00** **PSS Sample ID: 13010808-006**
Matrix: GROUND WATER **Date/Time Received: 01/08/2013 12:55**

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

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	01/10/13	01/10/13 19:59	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:59	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 19:59	1011
Toluene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:59	1011
2-Hexanone	ND	ug/L	10		1	01/10/13	01/10/13 19:59	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	01/10/13	01/10/13 19:59	1011
Dibromochloromethane	ND	ug/L	1.0		1	01/10/13	01/10/13 19:59	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	01/10/13	01/10/13 19:59	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	01/10/13	01/10/13 19:59	1011
Diisopropyl ether	ND	ug/L	10		1	01/10/13	01/10/13 19:59	1011
tert-Amyl methyl ether	ND	ug/L	10		1	01/10/13	01/10/13 19:59	1011
tert-Amyl alcohol	ND	ug/L	20		1	01/10/13	01/10/13 19:59	1011
Bromoform	ND	ug/L	5.0		1	01/10/13	01/10/13 19:59	1011
Tetrachloroethene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:59	1011
Chlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:59	1011
Ethylbenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:59	1011
m,p-Xylenes	ND	ug/L	2.0		1	01/10/13	01/10/13 19:59	1011
Styrene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:59	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 19:59	1011
o-Xylene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:59	1011
Isopropylbenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:59	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:59	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:59	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:59	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	01/10/13	01/10/13 19:59	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:59	1011
Naphthalene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:59	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 19:59	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 13010808
Earth Data, Inc, Centerville, MD
January 15, 2013

Project Name: Chester River Hospital Center
Project Location: Chestertown, MD
Project ID: 2781

Sample ID: MW-33 **Date/Time Sampled: 01/07/2013 12:10** **PSS Sample ID: 13010808-007**
Matrix: GROUND WATER **Date/Time Received: 01/08/2013 12:55**

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	01/09/13	01/09/13 17:11	1040

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

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	01/08/13	01/08/13 19:38	1035

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 13010808

Earth Data, Inc, Centerville, MD

January 15, 2013

Project Name: Chester River Hospital Center
Project Location: Chestertown, MD
Project ID: 2781

Sample ID: MW-33 **Date/Time Sampled: 01/07/2013 12:10** **PSS Sample ID: 13010808-007**
Matrix: GROUND WATER **Date/Time Received: 01/08/2013 12:55**

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

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	01/10/13	01/10/13 20:28	1011
Chloromethane	ND	ug/L	1.0		1	01/10/13	01/10/13 20:28	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 20:28	1011
Vinyl Chloride	ND	ug/L	1.0		1	01/10/13	01/10/13 20:28	1011
tert-Butyl alcohol	ND	ug/L	20		1	01/10/13	01/10/13 20:28	1011
Bromomethane	ND	ug/L	1.0		1	01/10/13	01/10/13 20:28	1011
Chloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 20:28	1011
Acetone	ND	ug/L	10		1	01/10/13	01/10/13 20:28	1011
Cyclohexane	ND	ug/L	10		1	01/10/13	01/10/13 20:28	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	01/10/13	01/10/13 20:28	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	01/10/13	01/10/13 20:28	1011
Methylene Chloride	ND	ug/L	1.0		1	01/10/13	01/10/13 20:28	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	01/10/13	01/10/13 20:28	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	01/10/13	01/10/13 20:28	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 20:28	1011
2-Butanone (MEK)	ND	ug/L	10		1	01/10/13	01/10/13 20:28	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	01/10/13	01/10/13 20:28	1011
Bromochloromethane	ND	ug/L	1.0		1	01/10/13	01/10/13 20:28	1011
Chloroform	ND	ug/L	1.0		1	01/10/13	01/10/13 20:28	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 20:28	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 20:28	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	01/10/13	01/10/13 20:28	1011
Benzene	ND	ug/L	1.0		1	01/10/13	01/10/13 20:28	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	01/10/13	01/10/13 20:28	1011
Methyl Acetate	ND	ug/L	10		1	01/10/13	01/10/13 20:28	1011
Methylcyclohexane	ND	ug/L	10		1	01/10/13	01/10/13 20:28	1011
Trichloroethene	ND	ug/L	1.0		1	01/10/13	01/10/13 20:28	1011
Carbon Disulfide	ND	ug/L	10		1	01/10/13	01/10/13 20:28	1011
Bromodichloromethane	ND	ug/L	1.0		1	01/10/13	01/10/13 20:28	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	01/10/13	01/10/13 20:28	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 13010808

Earth Data, Inc, Centerville, MD

January 15, 2013

Project Name: Chester River Hospital Center
Project Location: Chestertown, MD
Project ID: 2781

Sample ID: MW-33 **Date/Time Sampled: 01/07/2013 12:10** **PSS Sample ID: 13010808-007**
Matrix: GROUND WATER **Date/Time Received: 01/08/2013 12:55**

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

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	01/10/13	01/10/13 20:28	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	01/10/13	01/10/13 20:28	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 20:28	1011
Toluene	ND	ug/L	1.0		1	01/10/13	01/10/13 20:28	1011
2-Hexanone	ND	ug/L	10		1	01/10/13	01/10/13 20:28	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	01/10/13	01/10/13 20:28	1011
Dibromochloromethane	ND	ug/L	1.0		1	01/10/13	01/10/13 20:28	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	01/10/13	01/10/13 20:28	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	01/10/13	01/10/13 20:28	1011
Diisopropyl ether	ND	ug/L	10		1	01/10/13	01/10/13 20:28	1011
tert-Amyl methyl ether	ND	ug/L	10		1	01/10/13	01/10/13 20:28	1011
tert-Amyl alcohol	ND	ug/L	20		1	01/10/13	01/10/13 20:28	1011
Bromoform	ND	ug/L	5.0		1	01/10/13	01/10/13 20:28	1011
Tetrachloroethene	ND	ug/L	1.0		1	01/10/13	01/10/13 20:28	1011
Chlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 20:28	1011
Ethylbenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 20:28	1011
m,p-Xylenes	ND	ug/L	2.0		1	01/10/13	01/10/13 20:28	1011
Styrene	ND	ug/L	1.0		1	01/10/13	01/10/13 20:28	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 20:28	1011
o-Xylene	ND	ug/L	1.0		1	01/10/13	01/10/13 20:28	1011
Isopropylbenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 20:28	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 20:28	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 20:28	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 20:28	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	01/10/13	01/10/13 20:28	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 20:28	1011
Naphthalene	ND	ug/L	1.0		1	01/10/13	01/10/13 20:28	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 20:28	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 13010808

Earth Data, Inc, Centerville, MD

January 15, 2013

Project Name: Chester River Hospital Center
Project Location: Chestertown, MD
Project ID: 2781

Sample ID: MW-34 **Date/Time Sampled: 01/07/2013 12:23** **PSS Sample ID: 13010808-008**
Matrix: GROUND WATER **Date/Time Received: 01/08/2013 12:55**

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	01/09/13	01/09/13 17:34	1040

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

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	01/08/13	01/08/13 20:05	1035

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Earth Data, Inc, Centerville, MD

January 15, 2013

Project Name: Chester River Hospital Center
Project Location: Chestertown, MD
Project ID: 2781

Sample ID: MW-34 **Date/Time Sampled: 01/07/2013 12:23** **PSS Sample ID: 13010808-008**
Matrix: GROUND WATER **Date/Time Received: 01/08/2013 12:55**

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

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	01/10/13	01/10/13 20:56	1011
Chloromethane	ND	ug/L	1.0		1	01/10/13	01/10/13 20:56	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 20:56	1011
Vinyl Chloride	ND	ug/L	1.0		1	01/10/13	01/10/13 20:56	1011
tert-Butyl alcohol	ND	ug/L	20		1	01/10/13	01/10/13 20:56	1011
Bromomethane	ND	ug/L	1.0		1	01/10/13	01/10/13 20:56	1011
Chloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 20:56	1011
Acetone	ND	ug/L	10		1	01/10/13	01/10/13 20:56	1011
Cyclohexane	ND	ug/L	10		1	01/10/13	01/10/13 20:56	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	01/10/13	01/10/13 20:56	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	01/10/13	01/10/13 20:56	1011
Methylene Chloride	ND	ug/L	1.0		1	01/10/13	01/10/13 20:56	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	01/10/13	01/10/13 20:56	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	01/10/13	01/10/13 20:56	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 20:56	1011
2-Butanone (MEK)	ND	ug/L	10		1	01/10/13	01/10/13 20:56	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	01/10/13	01/10/13 20:56	1011
Bromochloromethane	ND	ug/L	1.0		1	01/10/13	01/10/13 20:56	1011
Chloroform	ND	ug/L	1.0		1	01/10/13	01/10/13 20:56	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 20:56	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 20:56	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	01/10/13	01/10/13 20:56	1011
Benzene	ND	ug/L	1.0		1	01/10/13	01/10/13 20:56	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	01/10/13	01/10/13 20:56	1011
Methyl Acetate	ND	ug/L	10		1	01/10/13	01/10/13 20:56	1011
Methylcyclohexane	ND	ug/L	10		1	01/10/13	01/10/13 20:56	1011
Trichloroethene	ND	ug/L	1.0		1	01/10/13	01/10/13 20:56	1011
Carbon Disulfide	ND	ug/L	10		1	01/10/13	01/10/13 20:56	1011
Bromodichloromethane	ND	ug/L	1.0		1	01/10/13	01/10/13 20:56	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	01/10/13	01/10/13 20:56	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 13010808

Earth Data, Inc, Centerville, MD

January 15, 2013

Project Name: Chester River Hospital Center
Project Location: Chestertown, MD
Project ID: 2781

Sample ID: MW-34 **Date/Time Sampled: 01/07/2013 12:23** **PSS Sample ID: 13010808-008**
Matrix: GROUND WATER **Date/Time Received: 01/08/2013 12:55**

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

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	01/10/13	01/10/13 20:56	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	01/10/13	01/10/13 20:56	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 20:56	1011
Toluene	ND	ug/L	1.0		1	01/10/13	01/10/13 20:56	1011
2-Hexanone	ND	ug/L	10		1	01/10/13	01/10/13 20:56	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	01/10/13	01/10/13 20:56	1011
Dibromochloromethane	ND	ug/L	1.0		1	01/10/13	01/10/13 20:56	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	01/10/13	01/10/13 20:56	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	01/10/13	01/10/13 20:56	1011
Diisopropyl ether	ND	ug/L	10		1	01/10/13	01/10/13 20:56	1011
tert-Amyl methyl ether	ND	ug/L	10		1	01/10/13	01/10/13 20:56	1011
tert-Amyl alcohol	ND	ug/L	20		1	01/10/13	01/10/13 20:56	1011
Bromoform	ND	ug/L	5.0		1	01/10/13	01/10/13 20:56	1011
Tetrachloroethene	ND	ug/L	1.0		1	01/10/13	01/10/13 20:56	1011
Chlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 20:56	1011
Ethylbenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 20:56	1011
m,p-Xylenes	ND	ug/L	2.0		1	01/10/13	01/10/13 20:56	1011
Styrene	ND	ug/L	1.0		1	01/10/13	01/10/13 20:56	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 20:56	1011
o-Xylene	ND	ug/L	1.0		1	01/10/13	01/10/13 20:56	1011
Isopropylbenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 20:56	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 20:56	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 20:56	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 20:56	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	01/10/13	01/10/13 20:56	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 20:56	1011
Naphthalene	ND	ug/L	1.0		1	01/10/13	01/10/13 20:56	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 20:56	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 13010808

Earth Data, Inc, Centerville, MD

January 15, 2013

Project Name: Chester River Hospital Center
Project Location: Chestertown, MD
Project ID: 2781

Sample ID: MW-35 **Date/Time Sampled: 01/07/2013 12:45** **PSS Sample ID: 13010808-009**
Matrix: GROUND WATER **Date/Time Received: 01/08/2013 12:55**

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	01/09/13	01/09/13 17:34	1040

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

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	01/08/13	01/08/13 20:32	1035

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January 15, 2013

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Project Location: Chestertown, MD
Project ID: 2781

Sample ID: MW-35 **Date/Time Sampled: 01/07/2013 12:45** **PSS Sample ID: 13010808-009**
Matrix: GROUND WATER **Date/Time Received: 01/08/2013 12:55**

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

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	01/10/13	01/10/13 21:24	1011
Chloromethane	ND	ug/L	1.0		1	01/10/13	01/10/13 21:24	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 21:24	1011
Vinyl Chloride	ND	ug/L	1.0		1	01/10/13	01/10/13 21:24	1011
tert-Butyl alcohol	ND	ug/L	20		1	01/10/13	01/10/13 21:24	1011
Bromomethane	ND	ug/L	1.0		1	01/10/13	01/10/13 21:24	1011
Chloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 21:24	1011
Acetone	ND	ug/L	10		1	01/10/13	01/10/13 21:24	1011
Cyclohexane	ND	ug/L	10		1	01/10/13	01/10/13 21:24	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	01/10/13	01/10/13 21:24	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	01/10/13	01/10/13 21:24	1011
Methylene Chloride	ND	ug/L	1.0		1	01/10/13	01/10/13 21:24	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	01/10/13	01/10/13 21:24	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	01/10/13	01/10/13 21:24	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 21:24	1011
2-Butanone (MEK)	ND	ug/L	10		1	01/10/13	01/10/13 21:24	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	01/10/13	01/10/13 21:24	1011
Bromochloromethane	ND	ug/L	1.0		1	01/10/13	01/10/13 21:24	1011
Chloroform	ND	ug/L	1.0		1	01/10/13	01/10/13 21:24	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 21:24	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 21:24	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	01/10/13	01/10/13 21:24	1011
Benzene	ND	ug/L	1.0		1	01/10/13	01/10/13 21:24	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	01/10/13	01/10/13 21:24	1011
Methyl Acetate	ND	ug/L	10		1	01/10/13	01/10/13 21:24	1011
Methylcyclohexane	ND	ug/L	10		1	01/10/13	01/10/13 21:24	1011
Trichloroethene	ND	ug/L	1.0		1	01/10/13	01/10/13 21:24	1011
Carbon Disulfide	ND	ug/L	10		1	01/10/13	01/10/13 21:24	1011
Bromodichloromethane	ND	ug/L	1.0		1	01/10/13	01/10/13 21:24	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	01/10/13	01/10/13 21:24	1011

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No: 13010808
Earth Data, Inc, Centerville, MD
January 15, 2013

Project Name: Chester River Hospital Center
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Project ID: 2781

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Matrix: GROUND WATER **Date/Time Received: 01/08/2013 12:55**

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

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	01/10/13	01/10/13 21:24	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	01/10/13	01/10/13 21:24	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 21:24	1011
Toluene	ND	ug/L	1.0		1	01/10/13	01/10/13 21:24	1011
2-Hexanone	ND	ug/L	10		1	01/10/13	01/10/13 21:24	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	01/10/13	01/10/13 21:24	1011
Dibromochloromethane	ND	ug/L	1.0		1	01/10/13	01/10/13 21:24	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	01/10/13	01/10/13 21:24	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	01/10/13	01/10/13 21:24	1011
Diisopropyl ether	ND	ug/L	10		1	01/10/13	01/10/13 21:24	1011
tert-Amyl methyl ether	ND	ug/L	10		1	01/10/13	01/10/13 21:24	1011
tert-Amyl alcohol	ND	ug/L	20		1	01/10/13	01/10/13 21:24	1011
Bromoform	ND	ug/L	5.0		1	01/10/13	01/10/13 21:24	1011
Tetrachloroethene	ND	ug/L	1.0		1	01/10/13	01/10/13 21:24	1011
Chlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 21:24	1011
Ethylbenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 21:24	1011
m,p-Xylenes	ND	ug/L	2.0		1	01/10/13	01/10/13 21:24	1011
Styrene	ND	ug/L	1.0		1	01/10/13	01/10/13 21:24	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	01/10/13	01/10/13 21:24	1011
o-Xylene	ND	ug/L	1.0		1	01/10/13	01/10/13 21:24	1011
Isopropylbenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 21:24	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 21:24	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 21:24	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 21:24	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	01/10/13	01/10/13 21:24	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 21:24	1011
Naphthalene	ND	ug/L	1.0		1	01/10/13	01/10/13 21:24	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	01/10/13	01/10/13 21:24	1011

Phase Separation Science, Inc

Sample Receipt Checklist

Work Order #	13010808	**Received By**	Evan Richardson
Client Name	Earth Data, Inc	**Date Received**	01/08/2013 12:55:00 PM
Project Name	Chester River Hospital Center	**Delivered By**	Trans Time Express
Project Number	2781	**Tracking No**	Not Applicable
Disposal Date	02/12/2013	**Logged In By**	Rachel Davis

Shipping Container(s)

No. of Coolers 1

Ice Present
Temp (deg C) 5
Temp Blank Present No

Custody Seal(s) Intact? N/A
Seal(s) Signed / Dated? N/A

Documentation

Sampler Name Tracy Lee
MD DW Cert. No. N/A

COC agrees with sample labels? Yes
Chain of Custody Yes

Sample Container

Appropriate for Specified Analysis? Yes
Intact? Yes
Labeled and Labels Legible? Yes

Custody Seal(s) Intact? Not Applicable
Seal(s) Signed / Dated Not Applicable

Total No. of Samples Received 9

Total No. of Containers Received 63

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

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: 01/08/2013

PM Review and Approval: Lynn Moran — Date: 01/09/2013